

# Command Line Reference Guide for iDRAC6 1.5, iDRAC6 3.0, and CMC 3.1



# Notes and Cautions



**NOTE:** A NOTE indicates important information that helps you make better use of your computer.



**CAUTION:** A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

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# Introduction

This document provides information about the RACADM subcommands, supported RACADM interfaces, and property database groups and object definitions for the following:

- iDRAC6 Enterprise on Blade Servers
- iDRAC6 Enterprise or Express on Rack and Tower Servers
- Dell Chassis Management Controller (CMC)

## Supported RACADM Interfaces

The RACADM command-line utility provides a scriptable interface that allows you to locally or remotely configure your Remote Access Controller (RAC). The utility runs on the management station and the managed system. It is available on the *Dell OpenManage Systems Management and Documentation DVD* or at [support.dell.com](http://support.dell.com).

The RACADM utility supports the following interfaces:

- **Local** — Supports executing RACADM commands from the managed server's Operating System. You must install the OpenManage software on the managed server to run local racadm commands.
- **SSH or Telnet** — Supports executing RACADM commands from a SSH or Telnet session to iDRAC.
- **Remote** — Supports executing RACADM commands from a remote management station such as a laptop or desktop computer. You must install the OpenManage software on the remote computer to run remote RACADM commands. To execute remote RACADM commands, you must formulate the command like a local or SSH/Telnet RACADM command except that you must also use the `-r -i` options or the `-r -u -p` options. For more information on these options, see the "RACADM Subcommand Details" on page 31.

Table 1-1 provides the supported RACADM interfaces for iDRAC6 Enterprise and iDRAC6 Express.

**Table 1-1. Supported RACADM Interfaces**

iDRAC Type	Local RACADM	SSH/Telnet RACADM	Remote RACADM
iDRAC6 Enterprise	✓	✓	✓
iDRAC6 Express	✓	✓	✗
CMC	✓	✓	✓

✓ = Supported; ✗ = Not supported

## Supported RACADM Subcommands

Table 1-2 provides the list of RACADM subcommands and their corresponding interface support. For detailed information of the RACADM subcommands including syntax and valid entries, see "RACADM Subcommand Details" on page 31.

**Table 1-2. RACADM Subcommands**

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Remote RACADM
"?" and "? <command>"	✗	✗	✗	✗	✗	✗	✓	✓
arp	✓	✗	✓	✓	✗	✓	✓	✓
chassisaction	✗	✗	✗	✗	✗	✗	✓	✓
clearasrscreen	✓	✓	✓	✓	✓	✓	✗	✗
closessn	✓	✓	✓	✓	✓	✓	✓	✓
clrraclog	✓	✓	✓	✓	✓	✓	✓	✓
clrsel	✓	✓	✓	✓	✓	✓	✓	✓
cmchangeover	✗	✗	✗	✗	✗	✗	✓	✓



**Table 1-2. RACADM Subcommands (continued)**

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Remote RACADM
config	✓	✓	✓	✓	✓	✓	✓	✓
connect	✗	✗	✗	✗	✗	✗	✓	✓
coredump	✓	✗	✓	✓	✗	✓	✗	✗
coredumpdelete	✓	✓	✓	✓	✓	✓	✗	✗
deploy	✗	✗	✗	✗	✗	✗	✓	✗
feature	✗	✗	✗	✗	✗	✗	✓	✓
featurecard	✗	✗	✗	✗	✗	✗	✓	✓
fwupdate	✓	✓	✓	✓	✓	✓	✓	✓
getassettag	✗	✗	✗	✗	✗	✗	✓	✓
getchassisname	✗	✗	✗	✗	✗	✗	✓	✓
getconfig	✓	✓	✓	✓	✓	✓	✓	✓
getdcinfo	✗	✗	✗	✗	✗	✗	✓	✓
getflexaddr	✗	✗	✗	✗	✗	✗	✓	✓
getioinfo	✗	✗	✗	✗	✗	✗	✓	✓
getkvminfo	✗	✗	✗	✗	✗	✗	✓	✓
getled	✗	✗	✗	✗	✗	✗	✓	✓
getmacaddress	✗	✗	✗	✗	✗	✗	✓	✓
getmodinfo	✗	✗	✗	✗	✗	✗	✓	✓
getniccfg	✓	✓	✓	✓	✓	✓	✓	✓

**Table 1-2. RACADM Subcommands (continued)**

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Remote RACADM
getpbinfo	✗	✗	✗	✗	✗	✗	✓	✓
getpminfo	✗	✗	✗	✗	✗	✗	✓	✓
getraclog	✓	✓	✓	✓	✓	✓	✓	✓
getractime	✓	✓	✓	✓	✓	✓	✓	✓
getredundancymode	✗	✗	✗	✗	✗	✗	✓	✓
getsel	✓	✓	✓	✓	✓	✓	✓	✓
getsensorinfo	✗	✗	✗	✗	✗	✗	✓	✓
getslotname	✗	✗	✗	✗	✗	✗	✓	✓
getssninfo	✓	✓	✓	✓	✓	✓	✓	✓
getsvctag	✓	✓	✓	✓	✓	✓	✓	✓
getsysinfo	✓	✓	✓	✓	✓	✓	✓	✓
getraclog	✓	✓	✓	✓	✓	✓	✓	✓
getversion	✗	✗	✗	✗	✗	✗	✓	✓
help	✓	✓	✓	✓	✓	✓	✓	✓
ifconfig	✓	✗	✓	✓	✗	✓	✓	✓
krbkeytabupload	✓	✓	✓	✓	✓	✓	✓	✓
localConRedirDisable	✓	✓	✓	✓	✓	✓	✗	✗
netstat	✓	✗	✓	✓	✗	✓	✓	✓
ping	✓	✗	✓	✓	✗	✓	✓	✓

**Table 1-2. RACADM Subcommands (continued)**

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Local RACADM	Remote RACADM	Telnet/SSH/Serial	Remote RACADM
ping6	✓	✗	✓	✓	✗	✓	✓	✓
racdump	✓	✗	✓	✓	✗	✓	✓	✓
racreset	✓	✓	✓	✓	✓	✓	✓	✓
racresetcfg	✓	✓	✓	✓	✓	✓	✓	✓
remoteimage	✓	✓	✓	✓	✓	✓	✓	✓
serveraction	✓	✓	✓	✓	✓	✓	✓	✓
setassettag	✗	✗	✗	✗	✗	✗	✓	✓
setchassisname	✗	✗	✗	✗	✗	✗	✓	✓
setflexaddr	✗	✗	✗	✗	✗	✗	✓	✓
setled	✗	✗	✗	✗	✗	✗	✓	✓
getniccfg	✓	✓	✓	✓	✓	✓	✓	✓
setractime	✗	✗	✗	✗	✗	✗	✓	✓
setslotname	✗	✗	✗	✗	✗	✗	✓	✓
setsysinfo	✗	✗	✗	✗	✗	✗	✓	✓
sshpkauth	✓	✓	✓	✓	✓	✓	✓	✓
sslcertdownload	✗	✓	✓	✗	✓	✓	✗	✓
sslcertupload	✗	✓	✓	✗	✓	✓	✗	✓
sslcertview	✓	✓	✓	✓	✓	✓	✓	✓
sslsrgen	✓	✓	✓	✓	✓	✓	✓	✓

**Table 1-2. RACADM Subcommands (continued)**

Subcommand	iDRAC6 on Blade Servers			iDRAC6 on Rack and Tower Servers			CMC	
	Telnet /SSH/ Serial	Local RACADM	Remote RACADM	Telnet/ SSH/S erial	Local RACADM	Remote RACADM	Telnet /SSH/ Serial	Remote RACADM
sslkeyupload	✗	✓	✓	✗	✓	✓	✗	✗
sslresetcfg	✓	✓	✓	✓	✓	✓	✓	✓
testemail	✓	✓	✓	✓	✓	✓	✓	✓
testfeature	✗	✗	✗	✗	✓	✓	✓	✓
testtrap	✓	✓	✓	✓	✓	✓	✓	✓
traceroute	✓	✗	✓	✗	✗	✗	✓	✓
traceroute6	✓	✗	✓	✗	✗	✗	✓	✓
usercontentupload	✗	✗	✗	✗	✓	✓	✗	✗
usercontentview	✗	✗	✗	✓	✓	✓	✗	✗
version	✗	✓	✓	✗	✓	✓	✗	✓
vflashsd	✓	✓	✓	✓	✓	✓	✗	✗
vflashpartition	✓	✓	✓	✓	✓	✓	✗	✗
vmdisconnect	✓	✓	✓	✓	✓	✓	✗	✗

## Other Documents You May Need

In addition to this guide, you can access the following guides available on the Dell Support website at [support.dell.com/manuals](http://support.dell.com/manuals). On the **Manuals** page, click **Software**→**Systems Management**. Click on the appropriate product link on the right-side to access the documents.

- The *Integrated Dell Remote Access Controller 6 (iDRAC6) Enterprise for Blade Servers User Guide* provides information about configuring and using an iDRAC6 for blade servers to remotely manage and monitor your system and its shared resources through a network.

- The *Integrated Dell Remote Access Controller 6 (iDRAC6) User Guide* provides complete information about configuring and using an iDRAC6 for rack and tower servers to remotely manage and monitor your system and its shared resources through a network.
- The CMC online Help provides information about using the CMC Web interface.
- The *Chassis Management Controller (CMC) Secure Digital (SD) Card Technical Specification* provides minimum BIOS and firmware version, installation and usage information.
- The *Dell OpenManage IT Assistant User's Guide* provides information about IT Assistant.
- Documentation specific to your third-party management console application.
- The *Dell OpenManage Server Administrator's User's Guide* provides information about installing and using Dell OpenManage Server Administrator.
- The *Dell Update Packages User's Guide* provides information about obtaining and using Dell Update Packages as part of your system update strategy.
- The *Glossary* provides information about the terms used in this document.

The following system documents are also available to provide more information about the system in which CMC is installed:

- The *Rack Installation Guide* and *Rack Installation Instructions* included with your rack solution describe how to install your system into a rack.
- The *Hardware Owner's Manual* provides information about system features and describes how to troubleshoot the system and install or replace system components.
- Documentation for any components you purchased separately provides information to configure and install these options.
- Release notes or readme files may be included to provide last-minute updates to the system or documentation or advanced technical reference material intended for experienced users or technicians.
- For more information on IOM network settings, see the *Dell PowerConnect M6220 Switch Important Information* document and the *Dell PowerConnect 6220 Series Port Aggregator White Paper*.

Updates are sometimes included with the system to describe changes to the system, software, and/or documentation. Always read the updates first because they often supersede information in other documents.

See the Safety and Regulatory information that is shipped with your system.



**NOTE:** Warranty information may be included within this document or as a separate document.

# RACADM Subcommand Details

This section provides detailed descriptions of the RACADM subcommands including the syntax and valid entries.

**△ CAUTION: The latest iDRAC6 1.5 and 3.0 firmware releases supports only the latest RACADM version. You may encounter errors if you use an older version of RACADM to query iDRAC6 with the latest firmware. Install the RACADM version shipped with the *Dell Systems Management Tools and Documentation DVD Version 6.3*.**


## Guidelines to Quote Strings Containing Special Characters When Using RACADM Commands

When using strings that contain special characters, use the following guidelines:

Strings containing the following special characters must be quoted using single quotes or double quotes:

- \$ (dollar sign)
- " (double quote)
- ' (single quote)
- ` (back quote)
- \ (backslash)
- ~ (tilde)
- ; (semicolon)
- | (vertical bar)
- ( (left parentheses)
- ) (right parentheses)& (ampersand)
- > (greater than)

- < (less than)
- # (pound)
- ASCII code 32 (space)

 **NOTE:** The - (dash) character cannot be the first character of the string, regardless of whether the string is quoted.

There are different escaping rules for single quoting versus double quoting.

#### For double quoting:


The following characters must be escaped by prepending a backslash:

- \$ (dollar sign)
- " (double quote)
- ' (single quote)
- ` (back quote)
- \ (backslash)


For example, use the following for a string that contains the special characters, \$, ", ` and \

#### For single quoting:

- No character escaping is necessary.
- A single quote cannot be used even with a backslash escaped.

 **NOTE:** An empty string may be specified as either "" (using double quotes) or '' (using single quotes).


## "?" and "? <command>"

 **NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

### Description

? lists all of the subcommands you can use with the **racadm** command and a one-line description of each subcommand.

? <command> displays the syntax for the specified command.

 **NOTE:** You can also use the **help** and **help <command>** commands to obtain the same information.



## Usage

racadm ?

racadm ? <command>

## Example for racadm ?



**NOTE:** The following output example shows only part of the actual output for the **racadm ?** command. Descriptions shown in this example may vary slightly from the descriptions in your racadm session.

```
racadm ?
help          -- list racadm subcommand description
help <subcommand> -- display usage summary for a subcommand
?            -- list racadm subcommand description
? <subcommand> -- display usage summary for a subcommand
arp          -- display the networking arp table
chassisaction -- execute chassis or switch power-up/down/cycle or
KVM powercycle
clrlog       -- clear the CMC log
clrsel       -- clear the System Event Log (SEL)
cmcchangeover -- Changes the redundant state of the CMC from
active to standby and vice versa
config       -- modify CMC configuration properties
...
setniccfg    -- modify network configuration properties
settractime  -- set the time on the CMC
setslotname  -- sets the name of the slot in the chassis
setsysinfo   -- set the chassis name and chassis location
sslcertview  -- display a CA/server certificate in the CMC
sslcsrngen   -- generate a certificate CSR from the CMC
testemail    -- test CMC e-mail notifications
testfeature  -- test CMC feature x
testtrap     -- test CMC SNMP trap notifications
traceroute   -- determine the route of a packet
traceroute6  -- determine the route of a packet
```

## Example for racadm ? <command>

```
racadm ? getsysinfo
getsysinfo -- display general CMC and system information
Usage:
racadm getsysinfo [-d] [-c] [-A] [-4] [-6]
-----
Valid Options:
-d : show CMC information
```

-c : show chassis information  
-A : do not show headers or labels  
-4 : show CMC IPv4 information  
-6 : show CMC IPv6 information

## help



**NOTE:** To use this subcommand, you must have **Login to iDRAC** permission.

Subcommand	Definition
help	Lists all the subcommands available to use with RACADM and provides a short description for each.

### Synopsis

```
racadm help
```

```
racadm help <subcommand>
```

### Description

The **help** subcommand lists all the subcommands that are available when using the **racadm** command along with a one-line description. You may also type a subcommand after **help** to get the syntax for a specific subcommand.

### Output

The **racadm help** command displays a complete list of subcommands.

The **racadm help <subcommand>** command displays information for the specified subcommand only.

## arp



**NOTE:** To use this subcommand, you must have **Administrator** and **Execute Diagnostic Commands** permission.

Subcommand	Definition
arp	Displays the contents of the Address Resolution Protocol (ARP) table. ARP table entries cannot be added or deleted.

### Synopsis

```
racadm arp
```

## chassisaction

IP Address	HW Type	Flags	HW Address	Mask	Device
192.168.1.1	0x1	0x2	00:00:0C:07:AC:0F	*	eth0



**NOTE:** To use this subcommand, you must have **Chassis Control Administrator** privilege.

### Description

Executes a power action on the chassis, iKVM, or a server.

### Usage

```
racadm chassisaction [-m <module>] <action>
```

## Options

**Table 2-1. chassisaction Subcommand Options**

Option	Description
<code>-m &lt;module&gt;</code>	Specifies the module on which you want the action carried out. <code>&lt;module&gt;</code> may be one of the following: <ul style="list-style-type: none"><li>• <code>chassis</code> - this is the default value if <code>-m</code> is not specified.</li><li>• <code>switch-n</code> where <math>n=1-6</math></li><li>• <code>kvm</code></li></ul>
<code>&lt;action&gt;</code>	Specifies the action you want to execute on the specified module. <code>&lt;action&gt;</code> may be one of the following: <ul style="list-style-type: none"><li>• <code>powerdown</code> — (Chassis only) Powers down the chassis.</li><li>• <code>powerup</code> — (Chassis only) Powers up the chassis.</li><li>• <code>powercycle</code> — Power cycles the module.</li><li>• <code>nongraceshutdown</code> — (Chassis only) Shuts down the chassis non-gracefully.</li><li>• <code>reset</code> — Performs a hard reset of the module.</li></ul>

**NOTE:** When `<module>` = `kvm` or `switch`, `<action>` must be `powercycle` or `reset`.

### Example

- Perform a reset of `switch-3`.

```
racadm chassisaction -m switch-3 reset
```

Module power operation successful.

## clearasrscreen



**NOTE:** To use this subcommand, you must have **Clear Logs** permission.

Subcommand	Definition
<code>clearasrscreen</code>	Clears the last crash (ASR) screen that is in memory. See <i>Configuring the Managed Server to Capture the Last Crash Screen and Disabling the Windows Automatic Reboot Option</i> sections in the <i>iDRAC6 Enterprise for Blade Servers User Guide</i> .

## Synopsis

```
racadm clearasrscreen
```

## closeasn



**NOTE:** To use this subcommand, you must have **Administrator** permission.

Subcommand	Definition
closeasn	Closes a communication session on the device. Use <code>getssninfo</code> to view a list of sessions that can be closed using this command.

## Synopsis

```
racadm closeasn -i <session id>
```

```
racadm closeasn -a
```

```
racadm closeasn -u <username>
```

## Options

Table 2-2 describes the `closeasn` subcommand options.


**Table 2-2. closeasn Subcommand Options and Descriptions**

Option	Description
-i <session id>	The session ID of the session to close, which can be retrieved using <code>racadm getssninfo</code> subcommand. <b>NOTE:</b> Session executing this command cannot be closed.
-a	Closes all sessions.
-u <user name>	Close all sessions for a particular user name. <b>NOTE:</b> -u option can be used in local RACADM only if the username contains upto 16 characters. If the user name contains more than 16 characters, use one of the following options to close a session: Local RACADM: -i option Remote RACADM: -u option or -i option

### Examples:

- `racadm closessn -i 1234`  
Closes the session 1234.
- `racadm closessn -u root`  
Closes all the sessions for root user.
- `racadm closessn -a`  
Closes all the sessions.

## clrraclog


 **NOTE:** To use this subcommand, you must have **Clear Logs** permission. .

Subcommand	Definition
<code>clrraclog</code>	Removes all existing records from iDRAC6 log. A new single record is created to record the date and time when the log was cleared.

### Synopsis

`racadm clrraclog`

## clrsele

 **NOTE:** To use this subcommand, you must have **Clear Logs** permission.

Subcommand	Definition
<code>clrsele</code>	Removes all existing records from the System Event Log (SEL).

### Synopsis

`racadm clrsele`

# cmcchangeover



**NOTE:** To use this subcommand, you must have **Administrator** privilege.

## Description

Changes the state of the CMC from active to standby, or vice versa, in a redundant CMC configuration. This subcommand is useful for remote debugging or testing purposes.



**NOTE:** This command is valid only in redundant CMC environments. For more information, see the "**Understanding the Redundant CMC Environment**" section of the *Dell Chassis Management Controller User Guide*.

## Usage

```
racadm cmcchangeover
```

## Output

```
CMC failover initiated successfully.
```

# config



**NOTE:** To use this subcommand, you must have **Log In iDRAC** permission.

## Synopsis

```
racadm config [-c|-p] -f <filename>
```

```
racadm config -g <groupName> -o <objectName> [-i  
<index>] <Value>
```

## Description

The `config` subcommand allows you to set iDRAC6 configuration parameters individually or to batch them as part of a configuration file. If the data is different, that iDRAC6 object is written with the new value.



**NOTE:** The configuration file retrieved using remote `racadm` and local `racadm` are not interoperable. The configuration file retrieved using remote `racadm` shows the index property for some of the indexed groups as read-write, for example `cfgSSADRoleGroupIndex`. For the `config -f <file name>` command, use the configuration file retrieved from the same interface. For example, for local `racadm config -f <file name>`, use the file generated from the local `racadm command getconfig -f <file name>`.

## Input

Table 2-3 describes the `config` subcommand options.



**NOTE:** The `-f` and `-p` options are not supported for the serial/Telnet/ssh console.

**Table 2-3. config Subcommand Options and Descriptions**

Option	Description
<code>-f</code>	The <code>-f &lt;filename&gt;</code> option causes <code>config</code> to read the contents of the file specified by <code>&lt;filename&gt;</code> and configure iDRAC6. The file must contain data in the format specified in the section <i>Parsing Rules</i> in the <i>iDRAC6 User's Guide</i> available on the Dell Support website at <a href="http://support.dell.com/manuals">support.dell.com/manuals</a> .
<code>-p</code>	The <code>-p</code> , or password option, directs <code>config</code> to delete the password entries contained in the config file <code>-f &lt;filename&gt;</code> after the configuration is complete.
<code>-g</code>	The <code>-g &lt;groupName&gt;</code> , or group option, must be used with the <code>-o</code> option. The <code>&lt;groupName&gt;</code> specifies the group containing the object that is to be set.
<code>-o</code>	The <code>-o &lt;objectName&gt; &lt;Value&gt;</code> , or object option, must be used with the <code>-g</code> option. This option specifies the object name that is written with the string <code>&lt;value&gt;</code> .



**Table 2-3. config Subcommand Options and Descriptions (continued)**

Option	Description
-i	The -i <i>&lt;index&gt;</i> , or index option, is valid only for indexed groups and can be used to specify a unique group. The <i>&lt;index&gt;</i> is a decimal integer from 1 through n, where n can vary from 1 to maximum number of indexes a particular group supports. If -i <i>&lt;index&gt;</i> is not specified, a value of 1 is assumed for groups, which are tables that have multiple entries. The index is specified by the index value, not a <i>named</i> value.
-c	The -c, or check option, is used with the <b>config</b> subcommand and allows the user to parse the .cfg file to locate syntax errors. If errors are found, the line number and a short description of what is incorrect are displayed. Writes do not occur to iDRAC6. This option is a check only.

## Output

This subcommand generates error output for any of the following reasons:

- Invalid syntax, group name, object name, index, or other invalid database members
- RACADM CLI failures

This subcommand returns an indication of the number of configuration objects that were written out of the total objects in the .cfg file.

## Examples

- `racadm config -g cfgLanNetworking -o  
cfgNicIpAddress 10.35.10.100`

Sets the `cfgNicIpAddress` configuration parameter (object) to the value 10.35.10.110. This IP address object is contained in the group `cfgLanNetworking`.

- `racadm config -f myrac.cfg`

Configures or reconfigures iDRAC6. The `myrac.cfg` file may be created from the `getconfig` command. The `myrac.cfg` file may also be edited manually as long as the parsing rules are followed.



**NOTE:** The `myrac.cfg` file does not contain passwords. To include passwords in the file, you must enter them manually. If you want to remove password information from the `myrac.cfg` file during configuration, use the `-p` option.

# connect

## Description

Connects to the switch or server serial console.



**NOTE:** You cannot use this subcommand with remote RACADM.

## Usage

- `racadm connect [-b] <server-n>`
- `racadm connect [-b] <switch-n>`

## Options

**Table 2-4. connect Subcommand Options**

Option	Description
<code>-b</code>	Connects to the switch or console using the binary mode. This is an optional argument; a server or a switch must be present.
<code>server-n</code> or <code>switch-n</code>	Server or switch to connect to. <ul style="list-style-type: none"><li>• <code>server-n</code> where <math>n=1-16</math></li><li>• <code>switch-n</code> where <math>n=&lt;a1   a2   b1   b2   c1   c2&gt;</math></li></ul>



**NOTE:** If you use the `-b` option, reset the CMC to terminate the **connect** operation.



**NOTE:** See the *Dell Chassis Management Controller User Guide* for examples on using the **connect** subcommand.

# coredump



**NOTE:** To use this subcommand, you must have **Execute Debug Commands** permission.

## Description

The `coredump` subcommand displays detailed information related to any recent critical issues that have occurred with the RAC. The `coredump` information can be used to diagnose these critical issues.

If available, the coredump information is persistent across iDRAC6 power cycles and remains available until either of the following conditions occur:

- The coredump information is cleared with the **coredumpdelete** subcommand.
- Another critical condition occurs on the RAC. In this case, the coredump information is relative to the last critical error that occurred.

See the **coredumpdelete** subcommand for more information about clearing the coredump.

## Synopsis

```
racadm coredump
```

## coredumpdelete



**NOTE:** To use this subcommand, you must have **Clear Logs** or **Execute Debug Commands** permission.

## Description

The **coredumpdelete** subcommand can be used to clear any currently resident **coredump** data stored in the RAC.




**NOTE:** If a **coredumpdelete** command is issued and a coredump is not currently stored in the RAC, the command displays a success message. This behavior is expected.

See the **coredump** subcommand for more information on viewing a coredump.

## Synopsis


```
racadm coredumpdelete
```

# deploy

 **NOTE:** To use this subcommand, you must have **Server Administrator** privilege.


## Description

Configures the static IP address, subnet mask, gateway, and password for the root user on iDRAC for the specified server.

 **NOTE:** You can also use **setniccfg** to configure static IP address, subnet mask, and gateway, as well as DHCP, speed, and duplex properties.

## Usage

- `racadm deploy -m <module> -u root -p <password> -s <ipaddress> <subnet> <gateway> -b <device> -o <no|yes>`
- `racadm deploy -m <module> -u root -p <password> -s -6 <ipv6Address> <prefixlen> <gateway> -b <device> -o <no|yes>`

 **NOTE:** `<prefixlen>` must be a number between 0 and 128.

- `racadm deploy -m <module> -u root -p <password> -d [-6]`
- `racadm deploy -a -u root -p <password>`

## Options

**Table 2-5. deploy Subcommand Options**

Option	Description
<code>-b &lt;device&gt;</code>	Specifies the first boot device; must be used with <code>-o</code> .  Use with <code>-m &lt;module&gt;</code> to specify for a individual server, or with <code>-a</code> for all servers  <b>Legal values:</b> <code>device</code> =None, PXE, HDD, CD-DVD, vFDD, vCD-DVD, iSCSI, SD, FDD
<code>-o &lt;no yes&gt;</code>	Indicates if the server should boot from the device once; must be used with <code>-o</code> .  Use with <code>-m &lt;module&gt;</code> to specify for a individual server, or with <code>-a</code> for all servers

**Table 2-5. deploy Subcommand Options**

Option	Description
-a	Creates and enables an iDRAC root user if it does not already exist, and is executed on all the existing servers in the chassis
-u root	Indicates that the <password> is supplied for the root user on the server. root is a constant parameter, the only value that is valid with the -u option.
-m <module>	Specifies the server you want to configure. <b>Legal values:</b> server-n, where n=1-16
-p <password>	Specifies the password for the root user on the server.
-s <ipaddress subnet gateway>	Sets the IP address, subnet mask, and gateway for the specified server, separated by single spaces. <ul style="list-style-type: none"><li>• <b>ipaddress</b> — A string representing a valid IP address. For example, 192.168.0.20.</li><li>• <b>subnet</b> — A string representing a valid subnet mask. For example, 255.255.255.0.</li><li>• <b>gateway</b> — A string representing a valid gateway address. For example, 192.168.0.1.</li></ul>
-d	Enables DHCP for the specified server. <b>NOTE:</b> The -s and -d options cannot be used together in the same command.
-6	Enables IPv6 auto configuration (when used with -d) Sets static IPv6 addresses (when used with -s)

**Example**

- ```
racadm deploy -m server-8 -s 192.168.0.20  
255.255.255.0 192.168.0.1
```

The server was deployed successfully.



**NOTE:** The **deploy** command generates an error when used on the extension slot of a multi-slot server.

- `racadm deploy -m server-9 192.168.0.11 255.255.255.0 192.168.0.1`  
ERROR: Server in slot 9 is an extension of the server in slot 1.
- `racadm deploy -m server-7 -u root -p calvin -s -6 ::/64 :: 10`

## feature



**NOTE:** To use this subcommand to deactivate FlexAddress, you must have **Chassis Configuration Administrator** privilege. A user with login privileges can view status only.

### Description

Displays all active chassis features. The information displayed includes feature name, date activated, and the serial number of the SD card used to activate the feature.

Dell Feature Cards may contain more than one feature. After any feature included on a Dell Feature Card is activated on a chassis, any other features that may be included on that Dell Feature Card cannot be activated on a different chassis.



**NOTE:** The **feature** subcommand must be run while the chassis is powered off to deactivate FlexAddress or the command returns an error.

### Usage

```
racadm feature -s
```

```
racadm feature -d -c <featurename>
```

## Options

**Table 2-6. feature Subcommand Options**

| Option | Description                                                                                                                                         |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| -s     | Displays the status of active features.                                                                                                             |
| -c     | <featurename> must be one of the following: <ul style="list-style-type: none"><li>• flexaddress (w/ -d)</li><li>• flexaddressplus (w/ -d)</li></ul> |
| -d     | Deactivates the feature specified in the -c option.                                                                                                 |

## Example

- `racadm feature -d -c flexaddress`  
The feature FlexAddress is deactivated on the chassis successfully
- `racadm feature -s`  
Feature Name = FlexAddress  
Date/time Activated = 26 Apr 2010 - 10:16:48  
Feature installed from SD-card serial number = TEST0123456789012345678  
Feature Name = FlexAddressPlus  
Date/time Activated = 26 Apr 2010 - 10:16:48  
Feature installed from SD-card serial number = TEST0123456789012345678

## featurecard



**NOTE:** To use this subcommand, you must have **Chassis Configuration Administrator** privilege.

## Description

Verifies proper SD card installation and displays the SD card status. Table 2-7 lists the status messages returned by the command.

**Table 2-7. Status Messages Returned by featurecard -s Command**

| Status Message                                                                                                                                                                          | Actions                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No feature card inserted.                                                                                                                                                               | Check the CMC to verify that the SD card was properly inserted. In a redundant CMC configuration, make sure the CMC with the SD feature card installed is the active CMC and not the standby CMC.                                       |
| The feature card inserted is valid and contains the following feature(s)<br>FlexAddress: The feature card is bound to this chassis                                                      | No action required.                                                                                                                                                                                                                     |
| No features active on the chassis                                                                                                                                                       | Install the SD card into the CMC.                                                                                                                                                                                                       |
| The feature card inserted is valid and contains the following feature(s)<br>FlexAddress: The feature card is bound to another chassis,<br>svctag = ABC1234, SD card<br>SN = 01122334455 | Remove the SD card; locate and install the SD card for the current chassis.                                                                                                                                                             |
| The feature card inserted is valid and contains the following feature(s)<br>FlexAddress: The feature card is not bound to any chassis                                                   | The feature card can be moved to another chassis, or can be reactivated on the current chassis. To reactivate on the current chassis, enter <i>racadm racreset</i> until the CMC module with the feature card installed becomes active. |

### Usage

`racadm featurecard -s`

### Options

**Table 2-8. featurecard Subcommand Options**

| Option          | Description                                       |
|-----------------|---------------------------------------------------|
| <code>-s</code> | Lists active SD card features and SD card status. |



## Example

```
$ feature -s
```

```
Feature Name = FlexAddress
```

```
Date/time Activated = 23 Jul 2009 - 21:01:10
```

```
Feature installed from SD-card SN =  
TEST0123456789012345678
```

## fwupdate



**NOTE:** To use this subcommand for CMC you must have **Chassis Configuration Administrator** privilege and for iDRAC you must have **Configure iDRAC6** permission.

### Description

The **fwupdate** subcommand allows users to update the firmware on the iKVM, active CMC, standby CMC, server iDRACs, or an IOM infrastructure device. You can:

- Check the firmware update process status.
- Update iDRAC6 or CMC firmware from a TFTP server by providing an IP address and optional path.
- Update iDRAC6 or CMC firmware from the local file system using local RACADM.
- Rollback to the standby firmware.



**NOTE:** This subcommand performs updates to the iDRAC firmware (if CMC firmware version is 2.0 or later and iDRAC firmware version is 1.4) when the existing firmware is corrupted. There can only be a single update operation in progress at any time. In addition, the **fwupdate** subcommand may only update one or more devices of a single kind at a time.

Before you begin your firmware update, see the *Advanced iDRAC6 Configuration* section in the *iDRAC6 User's Guide* available on the Dell Support website at [support.dell.com/manuals](http://support.dell.com/manuals).



**NOTE:** Running the **fwupdate** subcommand to update the firmware on the active CMC resets itself causing all network connections to be dropped. During update of all other modules, including the standby CMC, the active CMC continues to run normally without resetting.

## Usage for iDRAC6

```
racadm fwupdate -s
```

```
racadm fwupdate -g -u -a <TFTP_Server_IP_Address> [-d  
<path>]
```

```
racadm fwupdate -r
```

```
racadm fwupdate -p -u [-d <path>]
```

## Usage for CMC

For local RACADM:

```
racadm fwupdate -g -u -a <tftp server ip address or  
FQDN> -d <path> [-m <module>]
```

```
racadm fwupdate -f <tftp server ip address or FQDN>  
<username> <password> -d <path> [-m <module>]
```

```
racadm fwupdate -u -m iominf-<n>
```

```
racadm fwupdate -s [-m <module>]
```

```
racadm fwupdate -c [-m <module>]
```

For remote RACADM:

```
racadm fwupdate -p -u -d <firmware image>
```



**NOTE:** When using FTP, if you provide the full path to the image file on the CLI, then the CMC uses that path to locate that file on the host. If you do not provide a full path, then the CMC searches the home directory of the specified user for the file if the host system is running Linux or another variant of UNIX. If the host system is running Windows, then a default folder, such as **C:\ftproot** is searched.



**NOTE:** When attempting to run firmware update task using "racadm fwupdate" command, if the firmware image path length is greater than 64 characters, remote RACADM client exits with the error message "ERROR: Specified path is too long".

## Input

Table 2-9 describes the **fwupdate** subcommand options.



**NOTE:** The **-p** option is supported on local and remote RACADM and is not supported with the serial/Telnet/ssh console. The **-p** option is also not supported on Linux Operating Systems.

**Table 2-9. fwupdate Subcommand Options**

| Option | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -u     | <p>For iDRAC: The <b>update</b> option performs a checksum of the firmware update file and starts the actual update process. This option may be used along with the <b>-g</b> or <b>-p</b> options. At the end of the update, iDRAC6 performs a soft reset.</p> <p>For CMC: Performs the firmware update operation.</p>                                                                                                                                                           |
| -s     | <p>For iDRAC: The <b>status</b> option returns the current status of where you are in the update process. This option is always used by itself.</p> <p>For CMC: Displays the current status of the firmware update.</p> <p><b>NOTE:</b> Use <b>-m</b> to display the status of the module update. Omit <b>-m</b> to display the status of the active CMC update.</p> <p><b>NOTE:</b> The <b>all</b> value can only be used to obtain the status of all targets to be updated.</p> |
| -g     | <p>The <b>get</b> option instructs the firmware to get the firmware update file from the TFTP server. You must also specify the <b>-a</b>, <b>-u</b>, and <b>-d</b> options. In the absence of the <b>-a</b> option, the defaults are read from properties contained in the group <b>cfgRemoteHosts</b>, using properties <b>cfgRhostsFwUpdateIpAddr</b> and <b>cfgRhostsFwUpdatePath</b>.</p> <p>For CMC: Downloads the firmware update using the TFTP server.</p>               |
| -a     | <p>The <b>IP Address</b> option specifies the TFTP server IP address, used with <b>-g</b> option.</p> <p>For CMC: Specifies the TFTP server IP address or FQDN used for the firmware image (used with <b>-g</b>).</p>                                                                                                                                                                                                                                                             |
| -d     | <p>For iDRAC: The <b>-d</b>, or <b>directory</b>, option specifies the directory on the TFTP server or on iDRAC6's host server where the firmware update file resides.</p> <p>For CMC: Specifies the source path where the firmware image resides.</p> <p><b>Default:</b> Designated TFTP default directory on that host for the file if <b>-g</b> option is absent. If <b>-g</b> is used, defaults to directory configured on the TFTP server.</p>                               |

**Table 2-9. fwupdate Subcommand Options (continued)**

| Option               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -p                   | For iDRAC: The <code>-p</code> , or <code>put</code> , option is used to update the firmware file from the managed system to iDRAC6. The <code>-u</code> option must be used with the <code>-p</code> option.<br><b>NOTE:</b> This option is not applicable for CMC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| -r                   | The <code>rollback</code> option is used to rollback to the standby firmware.<br><b>NOTE:</b> This option is not applicable for CMC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| -c                   | Cancels the current firmware update of a module.<br><b>NOTE:</b> This option is applicable only for CMC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| -m<br><module><br>e> | <b>NOTE:</b> This option is applicable only for CMC.<br>Specifies the module or device to be updated. <module> is one of the following values: <ul style="list-style-type: none"><li>• <code>cmc-active</code> (default)</li><li>• <code>cmc-standby</code></li><li>• <code>kvm</code></li><li>• <code>server-n</code> where <math>n = 1-16</math></li><li>• <code>server-generation</code> where generation = iDRAC or iDRAC6</li><li>• <code>iominf-n</code> where <math>n = 1-6</math></li></ul> <b>NOTE:</b> CMC version 3.00 accepts IPv4, IPv6, or fully qualified domain names (FQDN) for both FTP and TFTP servers.<br><b>NOTE:</b> You can specify the <code>cmc-active</code> and <code>cmc-standby</code> modules at the same time along with one or more <code>server-n</code> modules. This enables the devices to be updated together.<br><b>NOTE:</b> See "Updating the IOM Infrastructure Device Firmware" section of the "Using the CMC Web Interface" chapter of the <i>Dell Chassis Management Controller User Guide</i> for additional information on the IOM infrastructure device firmware update process.<br><b>NOTE:</b> When you use the <code>server-generation</code> option, the CMC updates all iDRACs of that particular generation that can be updated.<br><b>NOTE:</b> Verify that the update applied to servers for a particular generation has been validated for all impacted server models. |

## Examples for CMC

- Upload the firmware image from the TFTP server and start the firmware update.

```
racadm fwupdate -g -u -a 192.168.0.100 -d  
firming.cmc -m cmc-active
```

TFTP firmware update has been initiated. This update process may take several minutes to complete.

- Upload the firmware image from the FTP server and start the firmware update.

```
racadm fwupdate -f 192.168.0.100 fred password123  
-d firming.cmc -m cmc-active
```

- Start IOM infrastructure firmware update.

```
racadm fwupdate -u -m iominf-1
```

- Update firmware on both the CMCs.

```
racadm fwupdate -g -u -a 192.168.0.100 -d  
firming.cmc -m cmc-active -m cmc-standby
```

- Update firmware on multiple servers.

```
racadm fwupdate -g -u -a 192.168.0.100 -d  
firming.imc -m server-1 -m server-2 -m server-3
```

- Update firmware on servers of iDRAC6 generation.

```
racadm fwupdate -g -u -a 192.168.0.100 -d  
firming.imc -m server-idrac6
```

- Update firmware on multiple IOM infrastructures.

```
racadm fwupdate -u -m iominf-4 -m iominf-5 -m  
iominf-6
```


- Query the current status of all firmware targets to be updated.

```
racadm fwupdate -s -m all
```

- Query the current status of the firmware update process for a particular module.

```
racadm fwupdate -s -m <module>
```

- Cancel a firmware update in progress.  
`racadm fwupdate -c`
- Upload a firmware image from the client and start the firmware update.  
`racadm fwupdate -p -u -d firmimg.cmc`

 **NOTE:** The `fwupdate` command generates an error when used on the extension slot of a multi-slot server.

## Output

Displays a message indicating the operation that is being performed.


## Examples


- `racadm fwupdate -g -u -a 143.166.154.143 -d <path>`

In this example, the `-g` option tells the firmware to download the firmware update file from a location (specified by the `-d` option) on the TFTP server at a specific IP address (specified by the `-a` option). After the image file is downloaded from the TFTP server, the update process begins. When completed, iDRAC6 is reset.


- `racadm fwupdate -s`

This option reads the current status of the firmware update.

 **NOTE:** Remote RACADM firmware update through the local path is not supported on Linux Operating Systems.

 **NOTE:** For CMC, these commands specifically apply to an active-CMC update.

## getassettag

 **NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

### Description

Displays the asset tag for the chassis.

### Usage

```
racadm getassettag [-m <module>]
```

## Options

**Table 2-10. getassettag Subcommand Options**

| Option      | Description                                                                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -m <module> | Specifies the module whose asset tag you want to view.<br>Legal value: chassis<br>Because there is only one legal value, you can obtain the same output if you do not include this option. |

## Example

- ```
racadm getassettag -m chassis
```

  
or  

```
racadm getassettag  
chassis 78373839-33
```

## getchassisname



**NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

## Description

Displays the name of the chassis.

## Usage

```
racadm getchassisname
```

## Example

- ```
racadm getchassisname
```

```
PowerEdge 2955
```

# getconfig

| Subcommand | Definition                                                                                                                       |
|------------|----------------------------------------------------------------------------------------------------------------------------------|
| getconfig  | Retrieves iDRAC6 configuration parameters individually, or all iDRAC6 configuration groups may be retrieved and saved to a file. |

## Synopsis

```
racadm getconfig -f <filename>  
racadm getconfig -g <groupName> [-i <index>]  
racadm getconfig -u <username>  
racadm getconfig -h  
racadm getconfig -g <groupName> -o <objectName> [-i  
index]
```

## Input

Table 2-11 describes the `getconfig` subcommand options.

**Table 2-11. getconfig Subcommand Options**

| Option | Description                                                                                                                                                                                                                                                                             |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -f     | The <code>-f &lt;filename&gt;</code> option directs <code>getconfig</code> to write the entire iDRAC6 configuration to a configuration file. This file can be used for batch configuration operations using the <code>config</code> subcommand.                                         |
| -g     | The <code>-g &lt;groupName&gt;</code> , or group option, can be used to display the configuration for a single group. The <code>groupName</code> is the name for the group used in the <code>racadm.cfg</code> files. If the group is an indexed group, use the <code>-i</code> option. |
| -h     | The <code>-h</code> , or <code>help</code> option, displays a list of all available configuration groups in alphabetical order. This option is useful when you do not remember exact group names.                                                                                       |



**Table 2-11. getconfig Subcommand Options**

| Option | Description                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -i     | The -i <index>, or index option, is valid only for indexed groups and can be used to specify a unique group. The <index> is a decimal integer from 1 through n, where n can vary from 1 to maximum number of indexes a particular group supports. If -i <index> is not specified, a value of 1 is assumed for groups, which are tables that have multiple entries. The index is specified by the index value, not a <i>named</i> value. |
| -o     | The -o <objectname> or object option specifies the object name that is used in the query. This option is optional and can be used with the -g option.                                                                                                                                                                                                                                                                                   |
| -u     | The -u <username>, or user name option, can be used to display the configuration for the specified user. The <username> option is the login name for the user.                                                                                                                                                                                                                                                                          |
| -v     | The -v option displays additional details with the display of the properties and is used with the -g option.                                                                                                                                                                                                                                                                                                                            |

## Output

This subcommand generates error output upon encountering either of the following:

- Invalid syntax, group name, object name, index, or other invalid database members
- RACADM CLI transport failures


If errors are not encountered, this subcommand displays the contents of the specified configuration.

## Examples

- `racadm getconfig -g cfgLanNetworking`  
Displays all of the configuration properties (objects) that are contained in the group `cfgLanNetworking`.
- `racadm getconfig -f myrac.cfg`  
Saves all group configuration objects from iDRAC6 to `myrac.cfg`.
- `racadm getconfig -h`  
Displays a list of the available configuration groups on iDRAC6 in an alphabetical order.


- `racadm getconfig -u root`  
Displays the configuration properties for the user named root.
- `racadm getconfig -g cfgUserAdmin -i 2 -v`  
Displays the user group instance at index 2 with verbose information for the property values.

## getdcinfo

 **NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

### Description

Displays general I/O module and daughter card configuration information.

 **NOTE:** Fabric verification for server DCs is performed only when the chassis is powered on. When the chassis is on standby power, iDRACs on the server modules remain powered off and thus are unable to report the server's DC fabric type. The DC fabric type may not be reported in the CMC user interface until iDRAC on the server is powered on.

### Usage

```
racadm getdcinfo
```

### Options

**Table 2-12. getdcinfo Subcommand Options**

| Option | Description                                                 |
|--------|-------------------------------------------------------------|
| -n     | Displays the model names for the daughter cards in servers. |

### Example

The example output below is for a system with multi-slot servers.

```
racadm getdcinfo
```

```
Group A I/O Type : Gigabit Ethernet
```

```
Group B I/O Type : Gigabit Ethernet
```

```
Group C I/O Type : Gigabit Ethernet
```

| <IO#>    | <Type>           | <State> | <Role> |
|----------|------------------|---------|--------|
| switch-1 | Gigabit Ethernet | OK      | Master |
| switch-2 | None             | N/A     | N/A    |
| switch-3 | Gigabit Ethernet | OK      | Master |
| switch-4 | None             | N/A     | N/A    |
| switch-5 | Gigabit Ethernet | OK      | Member |
| switch-6 | None             | N/A     | N/A    |

| <Server#> | <Presence>   | <DC1 Type>     | <DC1 State> | <DC2 Type>       | <DC2 State> |
|-----------|--------------|----------------|-------------|------------------|-------------|
| server-1  | Present      | None           | N/A         | None             | N/A         |
| server-2  | Not Present  | None           | N/A         | None             | N/A         |
| server-3  | Not Present  | None           | N/A         | None             | N/A         |
| server-4  | Present      | None           | N/A         | Gigabit Ethernet | OK          |
| server-5  | Not Present  | None           | N/A         | None             | N/A         |
| server-6  | Not Present  | None           | N/A         | None             | N/A         |
| server-7  | Not Present  | None           | N/A         | None             | N/A         |
| server-8  | Present      | FibreChannel 4 | Invalid     | None             | N/A         |
| server-9  | Extension(1) | None           | N/A         | None             | N/A         |
| server-10 | Not Present  | None           | N/A         | None             | N/A         |
| server-11 | Not Present  | None           | N/A         | None             | N/A         |
| server-12 | Not Present  | None           | N/A         | None             | N/A         |
| server-13 | Not Present  | None           | N/A         | None             | N/A         |
| server-14 | Not Present  | None           | N/A         | None             | N/A         |
| server-15 | Not Present  | None           | N/A         | None             | N/A         |
| server-16 | Not Present  | None           | N/A         | None             | N/A         |

getdcinfo -n

| <Server#> | <Presence>  | <DC1 Model Name> | <DC2 Model Name> |
|-----------|-------------|------------------|------------------|
| server-1  | Present     | None             | None             |
| server-2  | Not Present | None             | None             |

|           |              |            |                 |
|-----------|--------------|------------|-----------------|
| server-3  | Not Present  | None       | None            |
| server-4  | Present      | None       | Broadcom M5708t |
| server-5  | Not Present  | None       | None            |
| server-6  | Not Present  | None       | None            |
| server-7  | Not Present  | None       | None            |
| server-8  | Present      | LPe1105-M4 | None            |
| server-9  | Extension(1) | None       | None            |
| server-10 | Not Present  | None       | None            |
| server-11 | Not Present  | None       | None            |
| server-12 | Not Present  | None       | None            |
| server-13 | Not Present  | None       | None            |
| server-14 | Not Present  | None       | None            |
| server-15 | Not Present  | None       | None            |
| server-16 | Not Present  | None       | None            |

## getflexaddr



**NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

### Description

Displays enabled/disabled status for the entire chassis. If used with **-i**, the command displays MACs/WWN on a per slot basis.



**NOTE:** If FlexAddress is not activated on the chassis, the command displays server-assigned MAC/WWN addresses. If the slot is empty, the command returns an error message.

### Usage

```
racadm getflexaddr [-i <slotNum>]
```

### Options

**Table 2-13. getflexaddr Subcommand Options**

| Option                    | Description                                                                    |
|---------------------------|--------------------------------------------------------------------------------|
| <b>-i &lt;slotNum&gt;</b> | Specifies the slot information to be displayed. <slotNum> can be from 1 to 16. |

### Example

- Display current flex address settings for all slots and fabrics

```
racadm getflexaddr
```

---

| <Slot#> | <Status> | <Server Presence> |
|---------|----------|-------------------|
| 1       | Enabled  | Present           |
| 2       | Enabled  | Present           |
| 3       | Enabled  | Not Present       |
| 4       | Enabled  | Not Present       |
| 5       | Enabled  | Present           |
| 6       | Enabled  | Not Present       |
| 7       | Enabled  | Not Present       |
| 8       | Enabled  | Not Present       |
| 9       | Enabled  | Not Present       |
| 10      | Enabled  | Extension(2)      |
| 11      | Enabled  | Not Present       |
| 12      | Enabled  | Not Present       |
| 13      | Enabled  | Extension(5)      |
| 14      | Enabled  | Not Present       |
| 15      | Enabled  | Not Present       |
| 16      | Enabled  | Not Present       |

---

---

| <Fabric> | <Type>           | <Status> |
|----------|------------------|----------|
| A        | Gigabit Ethernet | Enabled  |
| B        | None             | Enabled  |
| C        | None             | Enabled  |

---

## idrac Management Controller Disabled

- Display the current flex address setting for slot 1.

```
racadm getflexaddr -i 1
```

```
Slot-1 server presence = Present
```

```
Slot-1 flexaddress enabled = 1
```

---

| <Fabric> | <Type>           | <Server-Assigned>          | <Chassis-Assigned>               |
|----------|------------------|----------------------------|----------------------------------|
| slot1-A1 | Gigabit Ethernet | 00:1C:23:CD:AC:D2 (active) | 00:1E:C9:FF:E3:21                |
|          | iSCSI            | 00:1C:23:CD:AC:D3 (active) | 00:1E:C9:FF:E3:22                |
| slot1-A2 | Gigabit Ethernet | 00:1C:23:CD:AC:D4 (active) | 00:1E:C9:FF:E3:23                |
|          | iSCSI            | 00:1C:23:CD:AC:D5 (active) | 00:1E:C9:FF:E3:24                |
| slot1-B1 | Gigabit Ethernet | 00:1D:09:71:B3:60          | 00:1E:C9:FF:E3:25 (active)       |
|          | iSCSI            | 00:1D:09:71:B3:61          | 00:1E:C9:FF:E3:26 (active)       |
| slot1-B2 | Gigabit Ethernet | 00:1D:09:71:B3:62          | 00:1E:C9:FF:E3:27 (active)       |
|          | iSCSI            | 00:1D:09:71:B3:63          | 00:1E:C9:FF:E3:28 (active)       |
| slot1-C1 | Fiber Channel 4  | 10:00:00:00:C9:63 :51:0E   | 20:01:00:1E:C9:FF:E3:29 (active) |
| slot1-C2 | Fiber Channel 4  | 10:00:00:00:C9:63 :51:0D   | 20:02:00:1E:C9:FF:E3:29 (active) |

---

## getioinfo



**NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

### Description

Displays general information about the I/O modules on the chassis.



**NOTE:** The fabric type may be any supported I/O fabric type, such as Ethernet, Fiber Channel, and Infiniband.

## Usage

```
racadm getioinfo
```

## Example

```
racadm getioinfo
```

| <IO>     | <Name>                    | <Type>           | <Presence>  | <POST> | <Power> | <Role> |
|----------|---------------------------|------------------|-------------|--------|---------|--------|
| switch-1 | Dell Ethernet Passthrough | Gigabit Ethernet | Present     | OK     | ON      | Master |
| switch-2 | N/A                       | None             | Not Present | N/A    | N/A     | N/A    |
| switch-3 | Brocade 4424              | Fibre Channel 4  | Present     | OK     | ON      | Master |
| switch-4 | N/A                       | None             | Not Present | N/A    | N/A     | N/A    |
| switch-5 | N/A                       | None             | Not Present | N/A    | N/A     | N/A    |
| switch-6 | N/A                       | None             | Not Present | N/A    | N/A     | N/A    |

## getkvminfo



**NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

## Description

Displays iKVM module information.

## Usage


```
racadm getkvminfo
```

## Example

```
racadm getkvminfo
```

```
<module> <presence> <model> <FW Version> <status>  
KVM Present Avocent iKVM Switch 00.05.00.04 Ready
```

# getled

 **NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

## Description

Displays the LED settings on a module: blinking, not blinking, or unknown (for empty slots).

## Usage

```
racadm getled -m <module>
```

**Table 2-14. getled Subcommand Options**

| Option      | Description                                                                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -m <module> | Specifies the module whose LED settings you want to view.<br><br><module> can be one of the following: <ul style="list-style-type: none"><li>• server-<i>n</i> where <i>n</i>=1-16</li><li>• switch-<i>n</i> where <i>n</i>=1-6</li><li>• chassis</li><li>• cmc-active</li></ul> |



## Examples

- `racadm getled -m server-10`  
`<module> <LED state>`  
`server-10 Blinking`
- `racadm getled -m chassis`  
`<module> <LED state>`  
`server-10 Not blinking`
- `racadm getled -m server-1`  
`<module> <LED state>`  
`server-1 ON`  
`racadm getled -m server-9`  
`<module> <LED state>`  
`server-9 Extension(1)`

## getmacaddress



**NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

### Description

Displays the MAC/WWN addresses for all modules or for a specified module.

### Usage

```
racadm getmacaddress [-m <module>] [-t iscsi] [-x]
```

```
racadm getmacaddress [-a]
```

### Options

**Table 2-15. getmacaddress Subcommand Options**

| Option                         | Description                                                                                                                                                                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-m &lt;module&gt;</code> | Specifies the module whose MAC address you want to view.<br><code>&lt;module&gt;</code> may be one of the following: <ul style="list-style-type: none"><li>• <code>chassis</code></li><li>• <code>server-n</code> where <math>n=1-16</math></li><li>• <code>switch-n</code> where <math>n=1-6</math></li></ul> |

**Table 2-15. getmacaddress Subcommand Options**

| Option | Description                                                                                                                                                                                      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -t     | Displays the iSCSI MAC addresses for all servers or the specified server if used with -m option.                                                                                                 |
| -x     | Displays the extra MACs (Ethernet or iSCSI) for servers with additional LOM MACs and must be used with -m option.                                                                                |
| -a     | Displays the Ethernet and iSCSI MAC/WWN addresses for all iDRAC/LOMs/mezzanine cards. When FlexAddress is enabled for a particular slot, then the chassis-assigned MAC/WWN address is displayed. |

**Example**

- Display iSCSI MAC addresses for all servers.  
`racadm getmacaddress -t iscsi`
- Display iSCSI MAC for server-1.  
`racadm getmacaddress -m server-1 -t iscsi`
- Display extra iSCSI MACs for server-1 (if available).  
`racadm getmacaddress -m server-1 -t iscsi -x`
- Display MAC for server-1.  
`racadm getmacaddress -m server-1`

| <Name>   | <Presence>   | <BMC MAC Address> | <NIC1 MAC Address> | <NIC2 MAC Address> |
|----------|--------------|-------------------|--------------------|--------------------|
| server-1 | Present      | 00:11:43:FD:B7:2A | 00:11:43:FD:B7:2A  | 00:11:43:FD:B7:2B  |
| server-9 | Extension(1) | N/A               | 00:11:43:FD:B7:2C  | 00:11:43:FD:B7:2D  |

- Display extra MACs for server-1 (if available).

```
racadm getmacaddress -m server-1 -x
```

| <Name>   | <Presence> | <BMC MAC Address> | <NIC1 MAC Address> | <NIC2 MAC Address> |
|----------|------------|-------------------|--------------------|--------------------|
| server-1 | Present    | 00:11:43:FD:B7:2A | 00:11:43:FD:B7:2A  | 00:11:43:FD:B7:2B  |
|          |            |                   | 00:11:43:FD:B7:2C  | 00:11:43:FD:B7:2D  |

```
racadm getmacaddress
```

| <Name>    | <Presence>   | <BMC MAC Address> | <NIC1 MAC Address> | <NIC2 MAC Address> |
|-----------|--------------|-------------------|--------------------|--------------------|
| CMC       | Present      | N/A               | 00:1E:4F:1F:3C:58  | N/A                |
| Server-1  | Present      | 00:1E:4F:2A:AF:7B | 00:1E:4F:2A:D3:97  | 00:1E:4F:2A:D3:99  |
| Server-2  | Present      | 00:22:19:D2:1E:84 | N/A                | N/A                |
| Server-3  | Not Present  | N/A               | N/A                | N/A                |
| Server-4  | Present      | 00:18:8B:FF:45:2A | 00:18:8B:FF:AA:02  | 00:18:8B:FF:AA:04  |
| Server-5  | Present      | 00:19:B9:FF:FE:E2 | 00:19:B9:FF:FC:0C  | 00:19:B9:FF:FC:0E  |
| Server-6  | Present      | 00:22:19:D2:1D:D4 | N/A                | N/A                |
| Server-7  | Present      | 00:1E:4F:FF:FC:DC | 00:1E:4F:FF:F0:B0  | 00:1E:4F:FF:F0:B2  |
| Server-8  | Not Present  | N/A               | N/A                | N/A                |
| Server-9  | Not Present  | N/A               | N/A                | N/A                |
| Server-10 | Not Present  | N/A               | N/A                | N/A                |
| Server-11 | Not Present  | N/A               | N/A                | N/A                |
| Server-12 | Not Present  | N/A               | N/A                | N/A                |
| Server-13 | Present      | 00:18:8B:FF:45:26 | 00:18:8B:FF:A9:F2  | 00:18:8B:FF:A9:F4  |
| Server-14 | Present      | 00:22:19:D2:1E:A2 | N/A                | N/A                |
| Server-15 | Extension(7) | N/A               | 00:1E:4F:FF:F0:B4  | 00:1E:4F:FF:F0:B6  |
| Server-16 | Not Present  | N/A               | N/A                | N/A                |

|          |             |     |                   |     |
|----------|-------------|-----|-------------------|-----|
| Switch-1 | Present     | N/A | 00:00:00:00:00:00 | N/A |
| Switch-2 | Present     | N/A | 00:00:00:00:00:00 | N/A |
| Switch-3 | Present     | N/A | 00:00:00:00:00:00 | N/A |
| Switch-4 | Present     | N/A | 00:00:00:00:00:00 | N/A |
| Switch-5 | Present     | N/A | 00:05:1E:08:EB:0B | N/A |
| Switch-6 | Not Present | N/A | N/A               | N/A |

- Display Ethernet and iSCSI MACS of all LOMs/mezzanine cards.

```
racadm getmacaddress -a
```

| <Name>     | <Type>           | <Presence>  | <BMC MAC Address> | <NIC1 MAC Address> | <NIC2 MAC Address> |
|------------|------------------|-------------|-------------------|--------------------|--------------------|
| CMC        | N/A              | Present     | N/A               | 00:1E:4F:1F:3C:58  | N/A                |
| Server-1-A | Gigabit Ethernet | Present     | 00:1E:4F:2A:AF:7B | 00:1E:4F:2A:D3:97  | 00:1E:4F:2A:D3:99  |
|            | iSCSI            | Present     |                   | 00:1E:4F:2A:D3:98  | 00:1E:4F:2A:D3:9A  |
| Server-1-B | Gigabit Ethernet | Present     |                   | Not Installed      | Not Installed      |
|            | iSCSI            | Present     |                   | Not Installed      | Not Installed      |
| Server-1-C | Fibre Channel 4  | Present     |                   | Not Installed      | Not Installed      |
| Server-2-A | Gigabit Ethernet | Present     | 00:22:19:D2:1E:84 | N/A                | N/A                |
|            | iSCSI            | Present     |                   | N/A                | N/A                |
| Server-2-B | Gigabit Ethernet | Present     |                   | Not Installed      | Not Installed      |
|            | iSCSI            | Present     |                   | Not Installed      | Not Installed      |
| Server-2-C | Fibre Channel 4  | Present     |                   | Not Installed      | Not Installed      |
| Server-3   | N/A              | Not Present | N/A               | N/A                | N/A                |

|            |                  |             |                   |                         |                         |
|------------|------------------|-------------|-------------------|-------------------------|-------------------------|
| Server-4-A | Gigabit Ethernet | Present     | 00:18:8B:FF:45:2A | 00:18:8B:FF:A:A:02      | 00:18:8B:FF:AA:04       |
|            | iSCSI            | Present     |                   | 00:18:8B:FF:A:A:03      | 00:18:8B:FF:AA:05       |
| Server-4-B | Gigabit Ethernet | Not Present |                   | Not Installed           | Not Installed           |
|            | iSCSI            | Present     |                   | Not Installed           | Not Installed           |
| Server-4-C | Fibre Channel 4  | Present     |                   | Not Installed           | Not Installed           |
| Server-5-A | Gigabit Ethernet | Present     | 00:19:B9:FF:FE:E2 | 00:19:B9:FF:F:C:0C      | 00:19:B9:FF:FC:0E       |
|            | iSCSI            | Present     |                   | 00:19:B9:FF:F:C:0D      | 00:19:B9:FF:FC:0F       |
| Server-5-B | Gigabit Ethernet | Present     |                   | Not Installed           | Not Installed           |
|            | iSCSI            | Present     |                   | Not Installed           | Not Installed           |
| Server-5-C | Fibre Channel 4  | Present     |                   | Not Installed           | Not Installed           |
| Server-6-A | Gigabit Ethernet | Present     | 00:22:19:D2:1D:D4 | N/A                     | N/A                     |
|            | iSCSI            | Present     |                   | N/A                     | N/A                     |
| Server-6-B | Gigabit Ethernet | Present     |                   | Not Installed           | Not Installed           |
|            | iSCSI            | Present     |                   | Not Installed           | Not Installed           |
| Server-6-C | Fibre Channel 4  | Present     |                   | Not Installed           | Not Installed           |
| Server-7-A | Gigabit Ethernet | Present     | 00:1E:4F:FF:FC:DC | 00:1E:4F:FF:F:0:B0      | 00:1E:4F:FF:F0:B2       |
|            | iSCSI            | Present     |                   | 00:1E:4F:FF:F:0:B1      | 00:1E:4F:FF:F0:B3       |
| Server-7-B | Gigabit Ethernet | Present     |                   | 00:1D:09:72:01:C8       | 00:1D:09:72:01:CA       |
| Server-7-C | Fibre Channel 4  | Present     |                   | 21:00:00:1B:32:0E:CF:34 | 21:01:00:1B:32:2E:CF:34 |
| Server-8   | N/A              | Not Present | N/A               | N/A                     | N/A                     |
| Server-9   | N/A              | Not Present | N/A               | N/A                     | N/A                     |
| Server-10  | N/A              | Not Present | N/A               | N/A                     | N/A                     |

|             |                  |              |                   |                         |                         |
|-------------|------------------|--------------|-------------------|-------------------------|-------------------------|
| Server-11   | N/A              | Not Present  | N/A               | N/A                     | N/A                     |
| Server-12   | N/A              | Not Present  | N/A               | N/A                     | N/A                     |
| Server-13-A | Gigabit Ethernet | Present      | 00:18:8B:FF:45:26 | 00:18:8B:FF:A9:F2       | 00:18:8B:FF:A9:F4       |
|             | iSCSI            | Present      |                   | 00:18:8B:FF:A9:F3       | 00:18:8B:FF:A9:F5       |
| Server-13-B | Gigabit Ethernet | Present      |                   | 00:1D:09:71:E0:78       | 00:1D:09:71:E0:7A       |
|             | iSCSI            | Present      |                   | 00:1D:09:71:E0:79       | 00:1D:09:71:E0:7B       |
| Server-13-C | Fibre Channel 4  | Present      |                   | 21:00:00:1B:32:0E:EF:30 | 21:01:00:1B:32:2E:EF:30 |
| Server-14-A | Gigabit Ethernet | Present      | 00:22:19:D2:1E:A2 | N/A                     | N/A                     |
|             | iSCSI            | Present      |                   | N/A                     | N/A                     |
| Server-14-B | Gigabit Ethernet | Present      |                   | Not Installed           | Not Installed           |
|             | iSCSI            | Present      |                   | Not Installed           | Not Installed           |
| Server-14-C | Fibre Channel 4  | Present      |                   | Not Installed           | Not Installed           |
| Server-15-A | Gigabit Ethernet | Extension(7) | N/A               | 00:1E:4F:FF:F0:B4       | 00:1E:4F:FF:F0:B6       |
|             | iSCSI            | Extension(7) | N/A               | 00:1E:4F:FF:F0:B5       | 00:1E:4F:FF:F0:B7       |
| Server-15-B | Gigabit Ethernet | Extension(7) | N/A               | 00:1D:09:71:E1:20       | 00:1D:09:71:E1:22       |
|             | iSCSI            | Extension(7) | N/A               | 00:1D:09:71:E1:21       | 00:1D:09:71:E1:23       |
| Server-15-C | Fibre Channel 4  | Extension(7) | N/A               | 21:00:00:1B:32:17:3A:66 | 21:00:00:1B:32:37:3A:66 |
| Server-16   | N/A              | Not Present  | N/A               | N/A                     | N/A                     |
| Switch-1    | None             | Present      | N/A               | 00:00:00:00:00:00       | N/A                     |
| Switch-2    | None             | Present      | N/A               | 00:00:00:00:00:00       | N/A                     |
| Switch-3    | None             | Present      | N/A               | 00:00:00:00:00:00       | N/A                     |

|          |      |             |     |                       |     |
|----------|------|-------------|-----|-----------------------|-----|
| Switch-4 | None | Present     | N/A | 00:00:00:00:0<br>0:00 | N/A |
| Switch-5 | None | Present     | N/A | 00:05:1E:08:E<br>B:0B | N/A |
| Switch-6 | N/A  | Not Present | N/A | N/A                   | N/A |

## getmodinfo



**NOTE:** To use this subcommand, you must have **CMC Login User** privilege.



**NOTE:** The service tag field is blank for modules that do not have service tags.

### Description

Displays configuration and status information for all modules or a specified module (server, switch, CMC, fan unit, power supply unit, KVM, or I2C cable) in the chassis.

### Usage

```
racadm getmodinfo [-m <module>] [-A]
```

## Options

**Table 2-16. getmodinfo Subcommand Options**

| Option      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -m <module> | Specifies the module whose configuration and status information you want to view. The default command (no options) displays information about all major components in the chassis.<br><br><module> may be any of the following values: <ul style="list-style-type: none"> <li>• server-<i>n</i> where <i>n</i>=1-16</li> <li>• switch-<i>n</i> where <i>n</i>=1-6</li> <li>• CMC-<i>n</i> where <i>n</i>=1-2</li> <li>• fan-<i>n</i> where <i>n</i>=1-9</li> <li>• ps-<i>n</i> where <i>n</i>=1-6</li> <li>• chassis</li> <li>• kvm</li> <li>• io-cable</li> <li>• fpc-cable</li> </ul> |
| -A          | Suppresses headers and labels in the output.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### Example

- racadm getmodinfo -m switch-1


```
<module>      <presence>      <pwrState>      <health>      <svcTag>
Switch-1      Present          ON              OK            CG09074
```

- racadm getmodinfo


```
<module>      <presence>      <pwrState>      <health>      <svcTag>
Chassis       Present         ON              Not OK        ABC1234
Fan-1         Present         ON              OK
Fan-2         Present         ON              OK
Fan-3         Present         ON              OK
Fan-4         Present         ON              OK
Fan-5         Present         ON              OK
Fan-6         Present         ON              OK
Fan-7         Present         ON              OK
Fan-8         Present         ON              OK
Fan-9         Present         ON              OK
PS-1          Present         Online          OK
PS-2          Not Present     N/A            N/A           N/A
```



|           |              |         |     |         |
|-----------|--------------|---------|-----|---------|
| PS-3      | Present      | Online  | OK  |         |
| PS-4      | Not Present  | N/A     | N/A | N/A     |
| PS-5      | Not Present  | N/A     | N/A | N/A     |
| PS-6      | Not Present  | N/A     | N/A | N/A     |
| CMC-1     | Present      | Primary | OK  | N/A     |
| CMC-2     | Not Present  | N/A     | N/A | N/A     |
| Switch-1  | Not Present  | N/A     | N/A | N/A     |
| Switch-2  | Not Present  | N/A     | N/A | N/A     |
| Switch-3  | Not Present  | N/A     | N/A | N/A     |
| Switch-4  | Not Present  | N/A     | N/A | N/A     |
| Switch-5  | Not Present  | N/A     | N/A | N/A     |
| Switch-6  | Not Present  | N/A     | N/A | N/A     |
| Server-1  | Not Present  | N/A     | N/A | N/A     |
| Server-2  | Present      | OFF     | OK  |         |
| Server-3  | Present      | ON      | OK  | S YW    |
| Server-4  | Present      | ON      | OK  |         |
| Server-5  | Present      | ON      | OK  |         |
| Server-6  | Present      | ON      | OK  | 1234567 |
| Server-7  | Present      | ON      | OK  |         |
| Server-8  | Not Present  | N/A     | N/A | N/A     |
| Server-9  | Not Present  | N/A     | N/A | N/A     |
| Server-10 | Extension(2) | N/A     | N/A | N/A     |
| Server-11 | Not Present  | N/A     | N/A | N/A     |
| Server-12 | Present      | ON      | OK  |         |
| Server-13 | Not Present  | N/A     | N/A | N/A     |
| Server-14 | Present      | ON      | OK  | 0000015 |
| Server-15 | Present      | ON      | OK  |         |
| Server-16 | Present      | ON      | OK  |         |
| KVM       | Present      | ON      | OK  |         |
| IO-Cable  | Present      | ON      | OK  | ABC1234 |
| FPC-Cable | Present      | ON      | OK  | ABC1234 |

 **NOTE:** For CMC (only) a power state of "Primary" denotes Active CMC.

## getniccfg

 **NOTE:** To use this subcommand, you must have **Login to iDRAC** permission.

### Description

The getniccfg subcommand displays the current NIC settings.

### Synopsis

```
racadm getniccfg
```

## Sample Output

The `getniccfg` subcommand displays an appropriate error message if the operation is not successful. Otherwise, on success, the output is displayed in the following format:

### IPv4 settings:

```
NIC Enabled      = 1
IPv4 Enabled     = 1
DHCP Enabled     = 1
IP Address       = 10.35.0.64
Subnet Mask      = 255.255.255.0
Gateway         = 10.35.0.1
```

### IPv6 settings:

```
IPv6 Enabled     = 0
DHCP6 Enabled    = 1
IP Address 1     = ::
Gateway          = ::
Link Local Address = ::
IP Address 2     = ::
IP Address 3     = ::
IP Address 4     = ::
IP Address 5     = ::
IP Address 6     = ::
IP Address 7     = ::
IP Address 8     = ::
IP Address 9     = ::
IP Address 10    = ::
IP Address 11    = ::
IP Address 12    = ::
IP Address 13    = ::
IP Address 14    = ::
```

IP Address 15 = ::

**LOM Status:**

NIC Selection = Dedicated

Link Detected = Yes

Speed = 10Mb/s

Duplex Mode = Half Duplex



**NOTE:** IPv6 information is displayed only if IPv6 is enabled in iDRAC6.



**NOTE:** LOM Status is displayed only for iDRAC6 on Rack and Tower servers and is not displayed for iDRAC6 Enterprise on Blade servers.

## getpbinf



**NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

### Description

Displays power budget status information.

### Usage

```
racadm getpbinf
```

### Example

```
racadm getpbinf
```

```
[Power Budget Status]
```

```
System Input Power = 700 W
```

```
Peak System Power = 0 W
```

```
Peak System Power Timestamp = 01:08:23 01/27/2009
```

```
Minimum System Power = 0 W
```

```
Minimum System Power Timestamp = 20:18:30 01/27/2000
```

```
Overall Power Health = Not OK
```

```
Redundancy = No
```

```
System Input Power Cap = 7928 W
```

```
Redundancy Policy = None
```

```
Dynamic PSU Engagement Enabled = No
```

```
System Input Max Power Capacity = 0 W
```

```
Input Redundancy Reserve = 0 W
```

Input Power Allocated to Servers = 0 W  
 Input Power Allocated to Chassis Infrastructure =  
 51 watts  
 Total Input Power Available for Allocation = 0 W  
 Standby Input Power Capacity = 0 W


[Chassis Power Supply Status Table]

| <Name> | <Presence>  | <Power State> | <Input Current> | <Input Volts> | <Output Rating> |
|--------|-------------|---------------|-----------------|---------------|-----------------|
| PS1    | Online      | On            | 16.1 A          | 32 V          | 2360 W          |
| PS2    | Not Present | Slot Empty    | N/A             | N/A           | N/A             |
| PS3    | Not Present | Slot Empty    | N/A             | N/A           | N/A             |
| PS4    | Not Present | Slot Empty    | N/A             | N/A           | N/A             |
| PS5    | Not Present | Slot Empty    | N/A             | N/A           | N/A             |
| PS6    | Not Present | Slot Empty    | N/A             | N/A           | N/A             |

[Server Module Power Allocation Table]

| <Slot#> | <Server Name> | <PowerState> | <Allocation> | <Priority> | <Blade Type>  |
|---------|---------------|--------------|--------------|------------|---------------|
| 1       | SLOT-01       | N/A          | N/A          | 5          | N/A           |
| 2       | SLOT-02       | OFF          | 0 W          | 5          | PowerEdgeM805 |
| 3       | SLOT-03       | ON           | 164 W        | 5          | N/A           |
| 4       | SLOT-04       | ON           | 155 W        | 5          |               |
| 5       | SLOT-05       | ON           | 180 W        | 5          |               |
| 6       | SLOT-06       | ON           | 180 W        | 5          | PowerEdgeM600 |
| 7       | SLOT-07       | ON           | 170 W        | 5          |               |
| 8       | SLOT-08       | N/A          | N/A          | 5          | N/A           |
| 9       | SLOT-09       | N/A          | N/A          | 5          | N/A           |
| 10      | SLOT-10       | Extension(2) | N/A          | 5          | N/A           |
| 11      | SLOT-11       | N/A          | N/A          | 5          | N/A           |
| 12      | SLOT-12       | ON           | 125 W        | 5          | PowerEdgeM600 |
| 13      | SLOT-13       | N/A          | N/A          | 5          | N/A           |
| 14      | SLOT-14       | ON           | 342 W        | 5          | N/A           |
| 15      | SLOT-15       | ON           | 140 W        | 5          |               |
| 16      | SLOT-16       | ON           | 125 W        | 5          | N/A           |

# getpminfo

 **NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

## Description

Displays power management status information.

## Usage

```
racadm getpminfo
```

## Example

```
racadm getpminfo
```

```
[Real-Time Power Statistics]
```

```
System Input Power           = 600 W (188 BTU/hr)
Peak System Power           = 600 W (188 BTU/hr)
Peak System Power Start Time = 16:02:10 01/16/2008
Peak System Power Timestamp  = 06:32:55 01/26/2009
Minimum System Power        = 400 W (177 BTU/hr)
Minimum System Power Start Time = 22:43:21 01/21/2008
Minimum System Power Timestamp = 06:32:55 01/26/2009
System Idle Power           = 68 W (188 BTU/hr)
System Potential Power       = 68 W (188 BTU/hr)
System Input Current Reading = 31.2 A
```

```
[Real-Time Energy Statistics]
```

```
System Energy Consumption           = 6.4 kWh
System Energy Consumption Start Time = 16:02:10
01/16/2008
System Energy Consumption Timestamp  = 16:02:10
01/16/2008
```

```
[System Power Status]
```

```
Chassis Power State           = ON
Overall Power Health           = OK
Redundancy                     = No
```

```
[System Power Policy Configuration]
```

```

System Input Power Cap                = 7928 W (7928
BTU/hr | 10%)
Surplus for Peak Performance          = 7000 W (6130
BTU/hr)
Redundancy Policy                     = None
Dynamic PSU Engagement Enabled        = No

```

```

[Power Budgeting]
System Input Max Power Capacity       = 0 W
Input Redundancy Reserve              = 0 W
Input Power Allocated to Servers      = 0 W
Input Power Allocated to Chassis Infrastructure = 51W
Total Input Power Available for Allocation = 0 W
Standby Input Power Capacity          = 0 W

```

## getraclog



**NOTE:** To use this subcommand, you must have **Login to iDRAC** permission.

### Description

The `getraclog -i` command displays the number of entries in iDRAC6 log.

### Synopsis

```

racadm getraclog -i
racadm getraclog [-A] [-o] [-c count] [-s start-
record] [--more]

```

Table 2-17 lists the options that allow the `getraclog` command to read entries.

**Table 2-17. getraclog Subcommand Options**

| Option | Description                                                                                                     |
|--------|-----------------------------------------------------------------------------------------------------------------|
| -A     | Displays the output with no headers or labels.                                                                  |
| -c     | Provides the maximum count of entries to be returned.                                                           |
| --more | Displays one screen at a time and prompts the user to continue (similar to the UNIX <code>more</code> command). |

**Table 2-17. getraclog Subcommand Options (continued)**

| Option | Description                                         |
|--------|-----------------------------------------------------|
| -o     | Displays the output in a single line.               |
| -s     | Specifies the starting record used for the display. |



**NOTE:** If no options are provided, the entire log is displayed.

## Output

The default output display shows the record number, time stamp, source, and description. The timestamp begins at midnight, January 1 and increases until the system boots. After the system boots, the system's timestamp is used.



**NOTE:** For iDRAC6 Enterprise on Blade Servers, iDRAC6 Log entries for *SystemBoot* displayed using the local `racadm` command `racadm getraclog` may not be correctly formatted. For example, some extra characters may be displayed in the **Description** field, or the **Source** field may be empty.

## Sample Output

```
Record:          1
Date/Time:       Dec  8 08:10:11
Source:          login[433]
Description:     root login from 143.166.157.103
```

## getractime



**NOTE:** To use this subcommand, you must have **Login to iDRAC** permission.

## Description

With no options, the `getractime` subcommand displays the time in a common readable format.

With the `-d` option, `getractime` displays the time in the format, `yyyymmddhhmmss.mmmmmmm`, which is the same format returned by the UNIX `date` command.

## Synopsis

```
racadm getractime [-d]
```

## Output

The `getractime` subcommand displays the output on one line.

## Sample Output

```
racadm getractime
Thu Dec  8 20:15:26 2005
```

```
racadm getractime -d
20051208201542.000000
```

## getredundancymode



**NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

### Description

Displays the redundancy status (Redundant or Non-Redundant) of the CMC.

### Usage

```
racadm getredundancymode
```

### Example

```
racadm getredundancymode
Redundant
```

## getsel



**NOTE:** To use this subcommand, you must have **Login to iDRAC** permission.

### Description

The `getsel -i` command displays the number of entries in the SEL.

The following `getsel` options (without the `-i` option) are used to read entries.



## Synopsis

```
racadm getsel -i[-A]
```

```
racadm getsel [-s <start>] [-c <count>] [-A] [-o] [-E]  
[-R] [--more]
```



**NOTE:** If no arguments are specified, the entire log is displayed.

**Table 2-18. getsel Subcommand Options**

| Option | Description                                                                                               |
|--------|-----------------------------------------------------------------------------------------------------------|
| -A     | Specifies output with no display headers or labels.                                                       |
| -c     | Provides the number of records to be displayed.                                                           |
| -o     | Displays each entry in the SEL in a single line.                                                          |
| -s     | Specifies the starting record used for the display.                                                       |
| -E     | Displays RAW SEL data with the other data for each entry.                                                 |
| -R     | Displays only RAW SEL data for each entry.                                                                |
| -i     | Displays the number of entries in the SEL.                                                                |
| --more | Displays one screen at a time and prompts the user to continue (similar to the UNIX <b>more</b> command). |


## Output

The default output display shows the record number, timestamp, severity, and description.

For example:

```
Record:      1  
Date/Time:   11/16/2005 22:40:43  
Severity:    Ok  
Description: System Board SEL: event log sensor for  
System Board, log cleared was asserted
```

# getsensorinfo

 **NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

## Description

Displays status for system sensors.

## Usage

```
racadm getsensorinfo
```

## Examples

```
racadm getsensorinfo
```


| <senType> | <Num> | <sensorName> | <status> | <reading> | <units> | <lc> | <uc>  |
|-----------|-------|--------------|----------|-----------|---------|------|-------|
| FanSpeed  | 1     | Fan-1        | OK       | 4768      | rpm     | 2344 | 14500 |
| FanSpeed  | 2     | Fan-2        | OK       | 4873      | rpm     | 2344 | 14500 |
| FanSpeed  | 3     | Fan-3        | OK       | 4832      | rpm     | 2344 | 14500 |
| FanSpeed  | 4     | Fan-4        | OK       | 4704      | rpm     | 2344 | 14500 |
| FanSpeed  | 5     | Fan-5        | OK       | 4833      | rpm     | 2344 | 14500 |
| FanSpeed  | 6     | Fan-6        | OK       | 4829      | rpm     | 2344 | 14500 |
| FanSpeed  | 7     | Fan-7        | OK       | 4719      | rpm     | 2344 | 14500 |
| FanSpeed  | 8     | Fan-8        | Not OK   | 1         | rpm     | 2344 | 14500 |
| FanSpeed  | 9     | Fan-9        | OK       | 4815      | rpm     | 2344 | 14500 |

| <senType> | <Num> | <sensorName> | <status> | <reading> | <units> | <lc> | <uc> |
|-----------|-------|--------------|----------|-----------|---------|------|------|
| Temp      | 1     | Ambient_Temp | OK       | 22        | celcius | N/A  | 40   |

| <senType> | <Num> | <sensorName> | <status>   | <AC-OK status> |
|-----------|-------|--------------|------------|----------------|
| PWR       | 1     | PS-1         | Online     | OK             |
| PWR       | 2     | PS-2         | Online     | OK             |
| PWR       | 3     | PS-3         | Online     | OK             |
| PWR       | 4     | PS-4         | Slot Empty | N/A            |
| PWR       | 5     | PS-5         | Failed     | OK             |
| PWR       | 6     | PS-6         | Slot Empty | N/A            |

| <senType> | <Num> | <sensorName> | <status> |
|-----------|-------|--------------|----------|
| Cable     | 1     | IO-Cable     | OK       |
| Cable     | 2     | FPC-Cable    | OK       |

# getslotname

 **NOTE:** To use this subcommand, you must have **CMC Login User** privilege.

## Description

Displays the name and hostname (if available) of all 16 slots, or of a specified slot (indicated by the slot number) in the chassis. Optionally, this command can be used to find if the slot name or hostname is displayed in the CMC User Interface or with the `getslotname -i <slot ID>` command. If the hostname is not available, the static slot name is used.

## Usage

```
racadm getslotname  
racadm getslotname -i <slot ID>  
racadm getslotname -h
```

## Options

**Table 2-19. getslotname Subcommand Options**

| Option                          | Description                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------------------|
| (None)                          | Displays the slot name for all 16 slots in the chassis.                                                    |
| <code>-i &lt;slot ID&gt;</code> | Specifies the ID of the slot.<br><b>Legal values:</b> 1–16                                                 |
| <code>-h</code>                 | Specifies whether to use the slot name or the hostname (if available).<br>1=use hostnames, 0=use slotnames |

**Example**


- racadm getslotname

| <Slot #> | <Slot Name> | <Host name>     |
|----------|-------------|-----------------|
| 1        | SLOT-01     |                 |
| 2        | Webserver01 | WXP-8GRB221     |
| 3        | Webserver3  | WXP-319QWEecet5 |
| 4        | SLOT-04     |                 |
| 5        | SLOT-05     |                 |
| 6        | SLOT-06     |                 |
| 7        | SLOT-07     |                 |
| 8        | SLOT-08     |                 |
| 9        | SLOT-09     |                 |
| 10       | SLOT-10     |                 |
| 11       | SLOT-11     |                 |
| 12       | SLOT-12     |                 |
| 13       | SLOT-13     |                 |
| 14       | SLOT-14     |                 |
| 15       | SLOT-15     |                 |
| 16       | SLOT-16     |                 |

- racadm getslotname -i 1

Webserver-1

# getssninfo

 **NOTE:** To use this subcommand, you must have **Login to iDRAC** permission.

## Description

The **getssninfo** subcommand returns a list of users that are connected to iDRAC6. The following information is displayed:

- Session ID
- Username
- IP address (if applicable)
- Session type (for example, serial or Telnet)
- Login date and time in MM/DD/YYYY HH:MM:SS format

Based on the Session ID (SSNID) or the user name (User), the iDRAC administrator can close the respective sessions or all the sessions using the , **closessn** subcommand. See "closessn" on page 37 for more information.

## Synopsis

```
racadm getssninfo [-A] [-u <username> | *]
```

## Input

Table 2-20 describes the **getssninfo** subcommand options.

**Table 2-20. getssninfo Subcommand Options**

| Option | Description                                                                                                                                                                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -A     | The -A option eliminates the printing of data headers.                                                                                                                                                                                                       |
| -u     | The -u <username> user name option limits the printed output to only the detail session records for the given user name. If an (*) symbol is given as the user name, all users are listed. Summary information is not printed when this option is specified. |

## Examples


- `racadm getssninfo`

The following table provides an example of output from the `getssninfo` command.

| SSNID | Type | User | IP Address   | Login Date/Time     |
|-------|------|------|--------------|---------------------|
| 6     | GUI  | root | 192.168.0.10 | 04/07/2010 12:00:34 |

- `racadm getssninfo -A`  
"root" "143.166.174.19" "Telnet" "NONE"
- `racadm getssninfo -A -u *`  
"root" "143.166.174.19" "Telnet" "NONE"  
"bob" "143.166.174.19" "GUI" "NONE"

## getsvctag

 **NOTE:** To use this subcommand, you must have **Login to iDRAC** permission.

### Description

The `getsvctag` subcommand displays the service tag of the host system.

### Synopsis


```
racadm getsvctag
```

### Example

Type `getsvctag` at the command prompt. The output is displayed as follows:


```
Y76TP0G
```

# getsysinfo

 **NOTE:** To use this subcommand, you must have **Login to iDRAC** permission.

## Description

The `getsysinfo` subcommand displays information related to iDRAC, managed system, and watchdog configuration.

 **NOTE:** The local `racadm getsysinfo` subcommand on Linux displays the *PrefixLength* on separate lines for IPv6 Address 2 – IPv6 Address 15 and the Link Local Address.

## Synopsis

```
racadm getsysinfo [-d] [-s] [-w] [-A] [-c] [-4] [-6]
```

## Input

Table 2-21 describes the `getsysinfo` subcommand options.

**Table 2-21. getsysinfo Subcommand Options**

| Option | Description                               |
|--------|-------------------------------------------|
| -4     | Displays IPv4 settings                    |
| -6     | Displays IPv6 settings                    |
| -c     | Displays common settings                  |
| -d     | Displays iDRAC6 information               |
| -s     | Displays system information               |
| -w     | Displays watchdog information             |
| -A     | Eliminates the printing of headers/labels |

If the `-w` option is not specified, then the other options are used as defaults.

## Output

The `getsysinfo` subcommand displays information related to the RAC, managed system, and watchdog configuration.

## Sample Output

### RAC Information:

RAC Date/Time = 10/27/2009 14:38:00  
Firmware Version = 1.30  
Firmware Build = 20  
Last Firmware Update = 10/26/2009 16:55:08  
Hardware Version = 0.01  
MAC Address = 00:24:e8:2e:c5:d3

### Common settings:

Register DNS RAC Name = 1  
DNS RAC Name = eval710-08-r  
Current DNS Domain = blr.amer.dell.com  
Domain Name from DHCP = 1

### IPv4 settings:

Enabled = 1  
Current IP Address = 10.94.20.134  
Current IP Gateway = 10.94.20.1  
Current IP Netmask = 255.255.254.0  
DHCP Enabled = 1  
Current DNS Server 1 = 163.244.180.39  
Current DNS Server 2 = 163.244.180.40  
DNS Servers from DHCP = 1

### IPv6 settings:

Enabled = 1  
Current IP Address 1 = ::  
Current IP Gateway = ::



```
Autoconfig = 1
Link Local IP Address = fe80::224:e8ff:fe2e:c5d3/255
Current IP Address 2 = ::
Current IP Address 3 = ::
Current IP Address 4 = ::
Current IP Address 5 = ::
Current IP Address 6 = ::
Current IP Address 7 = ::
Current IP Address 8 = ::
Current IP Address 9 = ::
Current IP Address 10 = ::
Current IP Address 11 = ::
Current IP Address 12 = ::
Current IP Address 13 = ::
Current IP Address 14 = ::
Current IP Address 15 = ::
DNS Servers from DHCPv6 = 0
Current DNS Server 1 = ::
Current DNS Server 2 = ::
```

System Information:

```
System Model = PowerEdge R710
System BIOS Version = 1.0.4
Service Tag = 2X2Q12S
Host Name = WIN-IHF5D2BF5SN
OS Name =
Power Status = ON
```

Embedded NIC MAC Addresses:

```

NIC1 Ethernet          = 00:24:e8:2e:c5:cb
    iSCSI              = 00:24:e8:2e:c5:cc
NIC2 Ethernet          = 00:24:e8:2e:c5:cd
    iSCSI              = 00:24:e8:2e:c5:ce
NIC3 Ethernet          = 00:24:e8:2e:c5:cf
    iSCSI              = 00:24:e8:2e:c5:d0
NIC4 Ethernet          = 00:24:e8:2e:c5:d1
    iSCSI              = 00:24:e8:2e:c5:d2

```

#### Watchdog Information:

```

Recovery Action        = None
Present countdown value = 15 seconds
Initial countdown value = 15 seconds

```

## Examples

- ```

racadm getsysinfo -A -s
"System Information:" "PowerEdge 2900" "A08" "1.0"
"EF23VQ-0023" "Hostname"

"Microsoft Windows 2000 version 5.0, Build Number
2195, Service Pack 2" "ON"

```
- ```

racadm getsysinfo -w -s
System Information:
System Model          = PowerEdge 2900
System Revision      = I
System BIOS Version  = 0.2.3
BMC Firmware Version = 0.17
Service Tag          = 48192
Host Name             = racdev103
OS Name              = Microsoft Windows
Server 2003
Power Status         = OFF

```

```
Watchdog Information:
Recovery Action          = None
Present countdown value = 0 seconds
Initial countdown value = 0 seconds
```

## Limitations

The Hostname and OS Name fields in the `getsysinfo` output display accurate information only if Dell OpenManage Server Administrator is installed on the managed system. If it is not installed, these fields may be blank or inaccurate. An exception to this are VMware operating system names, which are displayed even if Server Administrator is not installed on the managed system.

## gettracelog



**NOTE:** To use this subcommand, you must have **Login to iDRAC** permission.

## Description

The `gettracelog` (without the `-i` option) command reads entries. The following `gettracelog` entries are used to read entries:

**Table 2-22. gettracelog Subcommand options**

| Option              | Description                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------|
| <code>-i</code>     | Displays the number of entries in <b>iDRAC6 trace log</b> .                                               |
| <code>--more</code> | Displays one screen at a time and prompts the user to continue (similar to the UNIX <b>more</b> command). |
| <code>-o</code>     | Displays each entry in a single line.                                                                     |
| <code>-c</code>     | Specifies the number of records to display.                                                               |
| <code>-s</code>     | Specifies the starting record to display.                                                                 |
| <code>-A</code>     | Do not display headers or labels.                                                                         |

## Synopsis

```
racadm gettracelog -i[-A]  
racadm gettracelog [-s <start>] [-c <count>] [--more]  
[-A] [-o]
```

## Output

The default output display shows the record number, timestamp, source, and description. The timestamp begins at midnight, January 1 and increases until the system boots. After the system boots, the system's timestamp is used.

For example:

```
Record:          1  
Date/Time:      Dec  8 08:21:30  
Source:         ssnmgrd[175]  
Description:    root from 143.166.157.103: session  
timeout sid 0be0aef4
```

## getversion



**NOTE:** To use this subcommand, you must have **Login** privilege.

### Description

Displays the current software version, model and generation information, and whether or not the target device can be updated.

### Usage

```
racadm getversion [-b | -c] [-m <module>]  
racadm getversion
```

### Options

**Table 2-23. getversion Subcommand Options**

| Option | Description                                                  |
|--------|--------------------------------------------------------------|
| (none) | Displays the version information for all targets or devices. |

**Table 2-23. getversion Subcommand Options**

| Option         | Description                                                                                                                                                                                                                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -m<br><module> | Specifies the module or device for which you want to retrieve the version information.<br><br><module> is one of the following: <ul style="list-style-type: none"> <li>• server-<i>n</i> where <i>n</i> = 1-16. For example, server-1.</li> <li>• cmc-<i>n</i> where <i>n</i>= 1 or 2. For example, cmc-2.</li> </ul> |
| -c             | Displays the server's current CPLD version.                                                                                                                                                                                                                                                                           |
| -b             | Displays the server's current BIOS version (default is iDRAC version).                                                                                                                                                                                                                                                |



**NOTE:** The **-b** and **-c** options are not available for CMC modules.

### Example

- racadm getversion -m server-15

```
<server> <iDRAC version> <model name> <Gen> <Updatable>
server-15 2.00(Build 10) PowerEdgeM605 iDRAC N
racadm getversion
```

| <Server> | <iDRAC Version>           | <Blade Type>  | <Gen>  | <Updatable> |
|----------|---------------------------|---------------|--------|-------------|
| server-2 | 1.50                      | PowerEdgeM600 | iDRAC  | Y           |
| server-3 | 2.10                      | PowerEdgeM610 | iDRAC6 | Y           |
| server-4 | 1.50                      | PowerEdgeM605 | iDRAC  | Y           |
| <CMC>    | <CMC Version>             |               |        | <Updatable> |
| cmc-1    | 2.10.X06.200906<br>080825 |               |        | Y           |

- racadm getversion -c

| <Server> | <CPLD Version> | <Blade Type>  |
|----------|----------------|---------------|
| server-1 |                | PowerEdgeM600 |
| server-2 |                | PowerEdgeM805 |
| server-5 | 1.0.0          | PowerEdgeM710 |

- `racadm getversion -b`

| <Server> | <BIOS Version> | <Blade Type>  |
|----------|----------------|---------------|
| server-1 | 2.0.0          | PowerEdgeM605 |
| server-2 | 1.1.0          | PowerEdgeM805 |
| server-5 | 1.1.0          | PowerEdgeM710 |

## ifconfig



**NOTE:** To use this subcommand, you must have **Execute Diagnostic Commands** or **Configure iDRAC** permission.

| Subcommand | Definition                                            |
|------------|-------------------------------------------------------|
| ifconfig   | Displays the contents of the network interface table. |

### Synopsis

```
racadm ifconfig
```

### Example

```
$ racadm ifconfig
eth0      Link encap:Ethernet  HWaddr 00:1D:09:FF:DA:23
          inet addr:10.35.155.136  Bcast:10.35.155.255
Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500
Metric:1
          RX packets:2550665 errors:0 dropped:0
overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0
carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:272532097 (259.9 MiB)  TX bytes:0
(0.0 B)
```

# krbkeytabupload



**NOTE:** To use this subcommand, you must have **Configure iDRAC** permission.

| Subcommand      | Description                     |
|-----------------|---------------------------------|
| krbkeytabupload | Uploads a Kerberos keytab file. |

## Synopsis

```
racadm krbkeytabupload [-f <filename>]
```

<filename> is the name of the file including the path.

## Options

Table 2-24 describes the **krbkeytabupload** subcommand options.

**Table 2-24. krbkeytabupload Subcommand Options**

| Option | Description                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| -f     | Specifies the file name of the keytab to be uploaded. If the file is not specified, the keytab file in the current directory is selected. |

The **krbkeytabupload** command returns 0 when successful and returns a non-zero number when unsuccessful.

## Example

```
racadm krbkeytabupload -f c:\keytab\krbkeytab.tab
```

# localConRedirDisable



**NOTE:** Only a local RACADM user can execute this command.

| Subcommand           | Description                                         |
|----------------------|-----------------------------------------------------|
| localConRedirDisable | Disables Virtual Console to the management station. |

## Synopsis

```
racadm localConRedirDisable <option>
```

If <option> is set to 1, Virtual Console is disabled.

If <option> is set to 0, Virtual Console is enabled.

## netstat



**NOTE:** To use this subcommand, you must have **Execute Diagnostic Commands** permission.

---

| Subcommand | Definition                                              |
|------------|---------------------------------------------------------|
| netstat    | Displays the routing table and the current connections. |

---

## Synopsis

```
racadm netstat
```

## ping



**NOTE:** To use this subcommand, you must have **Execute Diagnostic Commands** or **Configure iDRAC** permission.

---

| Subcommand | Definition                                                                                                                                                                                                                                              |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ping       | Verifies that the destination IP address is reachable from iDRAC6 with the current routing-table contents. A destination IP address is required. An ICMP echo packet is sent to the destination IP address based on the current routing-table contents. |

---

## Synopsis

```
racadm ping <ipaddress>
```



# ping6



**NOTE:** To use this subcommand for CMC you must have **Administrator** privilege for CMC and for iDRAC you must have **Execute Diagnostic Commands** or **Configure iDRAC6** permission.

---

| Subcommand | Definition                                                                                                                                                                                                                                                              |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ping6      | Verifies that the destination IPv6 address is reachable from iDRAC6 or CMC or with the current routing-table contents. A destination IPv6 address is required. An ICMP echo packet is sent to the destination IPv6 address based on the current routing-table contents. |

---

## Synopsis

```
racadm ping6 <ipv6address>
```

## Examples

```
racadm iping6 10.9.72.254
```

```
IPING6 10.9.72.254 (10.9.72.254): 56 data bytes  
64 bytes from 10.9.72.254: icmp_seq=0 ttl=121 time=2.9  
ms
```

```
--- 10.9.72.254 ping statistics ---  
1 packets transmitted, 1 packets received, 0 percent  
packet loss  
round-trip min/avg/max = 2.9/2.9/2.9 ms
```

# racdump



**NOTE:** To use this subcommand for CMC you must have **Administrator** privilege and for iDRAC you must have **Debug** permission.

## Description

The **racdump** subcommand provides a single command to get dump, status, and general iDRAC6 board information.

For CMC, this subcommand displays the comprehensive chassis status and configuration state information, as well as historic event logs. Used for post deployment configuration verification and during debugging sessions.

The following information is displayed when the **racdump** subcommand is processed:

- General system/RAC information
- Coredump
- Session information
- Process information
- Firmware build information

Racdump includes the following subsystems and aggregates the following RACADM commands:

| <b>Subsystem</b>                           | <b>RACADM Command</b> |
|--------------------------------------------|-----------------------|
| General System/RAC information             | getsysinfo            |
| Session information                        | getssinfo             |
| Sensor information                         | getsensorinfo         |
| Switches information (IO Module)           | getioinfo             |
| Mezzanine card information (Daughter card) | getdcinfo             |
| All modules information                    | getmodinfo            |
| Power budget information                   | getpbinfo             |
| KVM information                            | getkvminfo            |
| NIC information (CMC module)               | getniccfg             |
| Redundancy information                     | getredundancymode     |
| Trace log information                      | gettracelog           |
| RAC event log                              | getraclog             |
| System event log                           | getsel                |

## **Synopsis**

```
racadm racdump
```

## Example

```
racadm racdump
```

```
=====
=====
General System/RAC Information
=====
=====
```

### CMC Information:

```
CMC Date/Time           =
Wed, 28 Nov 2007 11:55:49 PM
Active CMC Version      = X08
Standby CMC Version     = N/A
Last Firmware Update    = Wed Nov 21 21:37:56 2007
Hardware Version        = 2
Current IP Address      = 10.35.155.160
Current IP Gateway      = 10.35.155.1
Current IP Netmask      = 255.255.255.0
DHCP Enabled            = 1
MAC Address              = 00:55:AB:39:10:0F
Current DNS Server 1    = 0.0.0.0
Current DNS Server 2    = 0.0.0.0
DNS Servers from DHCP   = 0
Register DNS CMC Name   = 0
DNS CMC Name             = cmc-servicetag
Current DNS Domain      =
```

### Chassis Information:

```
System Model             = PowerEdgeM1000eControlPanel
System AssetTag          = 00000
Service Tag              =
Chassis Name             = Dell Rack System
Chassis Location         = [UNDEFINED]
Power Status             = ON
```

```
=====
=====
```

## Session Information

```
=====
=====
```

| Type | User | IP Address    | Login Date/Time     |
|------|------|---------------|---------------------|
| SSH  | root | 10.9.72.252   | 11/28/2007 23:40:53 |
| KVM  | root | 169.254.31.30 | 11/28/2007 18:44:51 |

```
=====
=====
```

## Sensor Information

```
=====
=====
```

| <senType> | <Num> | <sensorName> | <status> | <reading> | <units> | <lc> | <uc>  |
|-----------|-------|--------------|----------|-----------|---------|------|-------|
| FanSpeed  | 1     | Fan-1        | OK       | 14495     | rpm     | 7250 | 14500 |
| FanSpeed  | 2     | Fan-2        | OK       | 14505     | rpm     | 7250 | 14500 |
| FanSpeed  | 3     | Fan-3        | OK       | 4839      | rpm     | 2344 | 14500 |
| FanSpeed  | 4     | Fan-4        | OK       | 14527     | rpm     | 7250 | 14500 |
| FanSpeed  | 5     | Fan-5        | OK       | 14505     | rpm     | 7250 | 14500 |
| FanSpeed  | 6     | Fan-6        | OK       | 4835      | rpm     | 2344 | 14500 |
| FanSpeed  | 7     | Fan-7        | OK       | 14521     | rpm     | 7250 | 14500 |
| FanSpeed  | 8     | Fan-8        | Not OK   | 1         | rpm     | 7250 | 14500 |
| FanSpeed  | 9     | Fan-9        | OK       | 4826      | rpm     | 2344 | 14500 |

| <senType> | <Num> | <sensorName> | <status> | <reading> | <units> | <lc> | <uc> |
|-----------|-------|--------------|----------|-----------|---------|------|------|
| Temp      | 1     | Ambient_Temp | OK       | 21        | celcius | N/A  | 40   |

| <senType> | <Num> | <sensorName> | <status>   | <AC-OK status> |
|-----------|-------|--------------|------------|----------------|
| PWR       | 1     | PS-1         | Online     | OK             |
| PWR       | 2     | PS-2         | Online     | OK             |
| PWR       | 3     | PS-3         | Online     | OK             |
| PWR       | 4     | PS-4         | Slot Empty | N/A            |
| PWR       | 5     | PS-5         | Failed     | OK             |
| PWR       | 6     | PS-6         | Slot Empty | N/A            |

# racreset



**NOTE:** To use this subcommand for CMC you must have **Chassis Administrator** privilege and for iDRAC you must have **Configure iDRAC** permission.



**NOTE:** When you issue a racreset subcommand, iDRAC6 may require up to two minutes to return to a usable state.

## Description

The **racreset** subcommand issues a reset to iDRAC6. The reset event is written into iDRAC6 log.



**NOTE:** You must reboot your system after performing a hard reset of iDRAC6 as described in Table 2-25.

Table 2-25 describes the **racreset** subcommand options.

**Table 2-25. racreset Subcommand Options**

| Option | Description                                                                                                                                                                                       |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| hard   | A <i>hard</i> reset performs a deep reset operation on the remote access controller. A hard reset should only be used as a last case resort of resetting iDRAC6 controller for recovery purposes. |
| soft   | A <i>soft</i> reset performs a graceful reboot operation on the RAC.                                                                                                                              |


## Synopsis

```
racadm racreset [hard | soft]
```

## Examples


- `racadm racreset`  
Start the iDRAC6 soft reset sequence.
- `racadm racreset hard`  
Start the iDRAC6 hard reset sequence.


## racresetcfg


 **NOTE:** To use this subcommand, you must have **Configure iDRAC** permission.

### Description

The **racresetcfg** command removes all user-configured database property entries. The database has default properties for all entries that are used to restore iDRAC6 to the default settings. After resetting the database properties, iDRAC6 resets automatically.

 **NOTE:** The **racresetcfg** subcommand does not reset the **cfgDNSRacName** object.


 **NOTE:** This command deletes your current iDRAC6 configuration and resets iDRAC6 and serial configuration to the default settings. After reset, the default name and password is **root** and **calvin**, respectively, and the IP address is 192.168.0.120. Only for iDRAC6 Enterprise on Blade servers, it is IP address plus the number of the slot the server inhabits in the chassis. If you issue **racresetcfg** from a network client (for example, a supported Web browser, Telnet/ssh, or remote RACADM), you must use the default IP address.

 **NOTE:** Certain iDRAC6 firmware processes need to be stopped and restarted for reset to defaults to complete. iDRAC6 becomes unresponsive for about 30 seconds while this operation completes.

### Synopsis

```
racadm racresetcfg
```

## remoteimage

 **NOTE:** To use this subcommand, you must have **Administrator** permission.

### Description

Connects, disconnects, or deploys a media file on a remote server.

### Synopsis

```
racadm remoteimage <options>
```

Table 2-26 describes the **remoteimage** subcommand options.

**Table 2-26. remoteimage Subcommand Options and Descriptions**

| Option | Description                                                                 |
|--------|-----------------------------------------------------------------------------|
| -c     | Connect the image.                                                          |
| -d     | Disconnect image.                                                           |
| -u     | Username to access the network share.                                       |
| -p     | Password to access the network share.                                       |
| -l     | Image location on the network share; use double quotes around the location. |
| -s     | Display current status; -a is assumed if not specified                      |

## serveraction



**NOTE:** To use this subcommand, you must have **Execute Server Control Commands** permission.

### Description

The **serveraction** subcommand enables users to perform power management operations on the host system. Table 2-27 describes the **serveraction** power control options.

**Table 2-27. serveraction Subcommand Options**

| String   | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <action> | Specifies the action. The options for the <action> string are: <ul style="list-style-type: none"><li>• <b>powerdown</b> — Powers down the managed system.</li><li>• <b>powerup</b> — Powers up the managed system.</li><li>• <b>powercycle</b> — Issues a power-cycle operation on the managed system. This action is similar to pressing the power button on the system's front panel to power down and then power up the system.</li><li>• <b>powerstatus</b> — Displays the current power status of the server (ON or OFF)</li><li>• <b>hardreset</b> — Performs a reset (reboot) operation on the managed system.</li></ul> |


## Synopsis

```
racadm serveraction <action>
```

## Output

The `serveraction` subcommand displays an error message if the requested operation could not be performed, or a success message if the operation completed successfully.

## setassettag

 **NOTE:** To use this subcommand, you must have **Administrator** privilege.

## Description

Sets the N-byte ASCII asset tag for the chassis.

## Usage

```
racadm setassettag -m chassis <asset tag>
```

## Options

**Table 2-28. setassettag Subcommand Options**

| Option      | Command                                                                                                                                                                                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -m <module> | Specifies the module whose asset tag you want to set.<br>Legal value: chassis<br><b>NOTE:</b> Because there is only one legal value, you can obtain the same output if you do not include this option.<br><b>NOTE:</b> <assettag> is a maximum of 64 non-extended ASCII characters. |

## Example

Input:

```
racadm setassettag -m chassis 783839-33
```


or

```
racadm setassettag 783839-33
```

The asset tag was changed successfully.



## setchassisname


 **NOTE:** To use this subcommand, you must have **Administrator** privilege.

### Description

Sets the name of the chassis in the LCD.

### Usage

```
racadm setchassisname <name>
```


 **NOTE:** Chassisname is a maximum of 64 non-extended ASCII characters

### Example

```
racadm setchassisname dellchassis-1
```


The chassis name was set successfully.


## setflexaddr

 **NOTE:** To use this subcommand, you must have **Chassis Configuration Administrator** privilege.

### Description

Enables/disables FlexAddress on a particular slot/fabric.

 **NOTE:** If the fabric type is determined to be Infiniband, the operation is canceled and the command returns an error. If the FlexAddress feature is not activated, the command returns an error.

 **NOTE:** The server must be powered off to change the slot state. All servers must be powered off to change the fabric state.

### Usage

```
racadm setflexaddr [-i <slot#> <state>]  
[-f <fabricName> <state>]
```

<slot#> = 1 to 16

<fabricName> = A, B, C

<state> = 0 or 1

where 0 is disable and 1 is enable

## Options

**Table 2-29. setflexaddr Subcommand Options**

| Option                                                                           | Description                                            |
|----------------------------------------------------------------------------------|--------------------------------------------------------|
| <code>-i &lt;slot#&gt;</code><br><code>&lt;state&gt;</code>                      | Enables/disables FlexAddress for the specified slot.   |
| <code>-f</code><br><code>&lt;fabricName&gt;</code><br><code>&lt;state&gt;</code> | Enables/disables FlexAddress for the specified fabric. |

### Example

- `racadm setflexaddr -i 1 0`  
Slot 1 FlexAddress state set successfully
- `racadm setflexaddr -f A 1`  
Fabric A FlexAddress state set successfully
- `racadm setflexaddr -f idrac 1`

## setled



**NOTE:** To use this subcommand, you must have **Administrator** privilege.

### Description

Sets the state (blinking or not blinking) of the LED on the specified module.

### Usage

```
racadm setled -m <module> -l <ledState>
```

## Options

**Table 2-30. `setled` Subcommand Options**

| Option                           | Description                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-m &lt;module&gt;</code>   | Specifies the module whose LED you want to configure.<br><code>&lt;module&gt;</code> can be one of the following: <ul style="list-style-type: none"><li>• <code>server-n</code> where <math>n=1-16</math></li><li>• <code>switch-n</code> where <math>n=1-6</math></li><li>• <code>cmc-active</code></li><li>• <code>chassis</code></li></ul> |
| <code>-l &lt;ledstate&gt;</code> | Specifies whether the LED should blink.<br><code>&lt;ledstate&gt;</code> can be one of the following: <ul style="list-style-type: none"><li>• 0 — no blinking</li><li>• 1 — blinking</li></ul>                                                                                                                                                |

### Example

- ```
racadm setled -m server-1 -l 1
```

  
LED state was set successfully.



**NOTE:** The `setled` command generates an error when used on the extension slot of a multi-slot server.

- ```
racadm setled -m server-9 -l 1
```

  
ERROR: Server in slot 9 is an extension of the server in slot 1.

## setniccfg



**NOTE:** To use the `setniccfg` command, you must have **Configure iDRAC** permission.

### Description


The `setniccfg` subcommand sets iDRAC6 IP address.

- The `-d` option enables DHCP for the NIC (default is DHCP disabled).
- The `-d6` option enables AutoConfig for the NIC. It is enabled by default.

- The **-s** option enables static IP settings. The IPv4 address, netmask, and gateway can be specified. Otherwise, the existing static settings are used. *<IPv4Address>*, *<netmask>*, and *<gateway>* must be typed as dot-separated strings.

```
racadm setniccfg -s 192.168.0.120 255.255.255.0
192.168.0.1
```

- The **-s6** option enables static IPv6 settings. The IPv6 address, Prefix Length, and the IPv6 Gateway can be specified.
- The **-o** option disables the NIC completely.

 **NOTE:** The terms NIC and Ethernet management port may be used interchangeably.

## Synopsis

```
racadm setniccfg -d
```

```
racadm setniccfg -d6
```

```
racadm setniccfg -s <IPv4Address> <netmask> <IPv4
gateway>
```


```
racadm setniccfg -s6 <IPv6 Address> <IPv6 Prefix
Length> <IPv6 Gateway>
```

```
racadm setniccfg -o
```

## Output

The **setniccfg** subcommand displays an appropriate error message if the operation is not successful. If successful, a message is displayed.

## setractime

 **NOTE:** To use this subcommand, you must have **Administrator** privilege.

### Description

Sets the date and time on the CMC.

## Usage

```
racadm setractime -d <yyyymmddhhmmss.mmmmmmssoff>
```

```
racadm setractime -l <yyyymmddhhmmss> [-z <zone>]
```

## Options

**Table 2-31. setractime Subcommand Options**

| Option    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -d        | Sets the time in the string <i>yyyymmddhhmmss.mmmmmmssoff</i> where: <ul style="list-style-type: none"><li>• <i>yyyy</i> is a the year</li><li>• <i>mm</i> is the month</li><li>• <i>dd</i> is the day</li><li>• <i>hh</i> is the hour</li><li>• <i>mm</i> is the minutes</li><li>• <i>ss</i> is the seconds</li><li>• <i>mmmmmm</i> is the number of microseconds</li><li>• <i>s</i> is a + (plus) sign or a - (minus) sign, which indicates the sign of the offset</li><li>• <i>off</i> is the offset in minutes</li></ul> <p><b>NOTE:</b> The <i>off</i> is the offset in minutes from GMT and must be in 15-minute increments.</p> |
| -z <zone> | Sets the time zone by name or index, or lists possible time zones.<br>For example, PST8PDT (Western United States), 279 (Seoul), 329 (Sydney).<br><i>&lt;zone&gt;</i> may be: <ul style="list-style-type: none"><li>• ? - lists the major timezone names/prefixes</li><li>• * - lists every time zone index and name</li><li>• prefix* - lists every time zone index and name that matches the prefix</li><li>• index - sets the time zone to the given time zone index</li><li>• name - sets the time zone to the given time zone name</li></ul>                                                                                      |

**Table 2-31. setractime Subcommand Options**

| Option | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -l     | Sets the local date and time in the string <i>yyyymmddhhmmss</i> where: <ul style="list-style-type: none"><li>• <i>yyyy</i> is a the year</li><li>• <i>mm</i> is the month</li><li>• <i>dd</i> is the day</li><li>• <i>hh</i> is the hour</li><li>• <i>mm</i> is the minute</li><li>• <i>ss</i> is the second</li></ul> <p><b>NOTE:</b> Setting the time using the -l and -z options is recommended. This command format allows the CMC to fully support local time zones, including the ability to automatically adjust the CMC time to the local Daylight Savings Time.</p> |

**Example**

The `setractime` subcommand supports dates ranging from 1/1/1970 00:00:00 through 12/31/2030 23:59:59. To set the date to October 24, 2007 at 3:02:30 PM PST:

```
racadm setractime -l 20071024150230 -z PST8PDT
```

The time was set successfully.

## setslotname




**NOTE:** To use this subcommand, you must have **Administrator** privilege.



**NOTE:** See the "Editing Slot Names" section in the *Dell Chassis Management Controller User Guide* for rules for selecting slot names.

**Description**

Displays the name and hostname (if available) of all 16 slots, or of a specified slot (indicated by the slot number) in the chassis. Optionally, this command can be used to set whether the slot name or hostname is displayed in the CMC User Interface or with the `getslotname -i <slot ID>` command. If the hostname is not available, the static slot name is used.

 **NOTE:** The OMSA server agent must be present and running on the server to use the Display Hostname feature. If the agent is not running, the setting is ignored. For more information, see the *Dell OpenManage Server Administrator User's Guide* at [support.dell.com/manuals](http://support.dell.com/manuals).

## Usage

```
racadm setslotname -i <slotID> <slotname>
```

```
racadm setslotname -h <enabled>
```

## Options

**Table 2-32. setslotname Subcommand Options**


| Option     | Description                                                                                                |
|------------|------------------------------------------------------------------------------------------------------------|
| <slotID>   | Displays the location of the slot in the chassis.<br><b>Legal values:</b> 1–16                             |
| <slotname> | The new name to assign to the slot.                                                                        |
| <enabled>  | Sets whether the server's hostname is used for display purposes. 1 = enabled.<br><b>Legal values:</b> 0, 1 |

## Example

```
racadm setslotname -i 3 mserver3
```

The slot name was set successfully.

# setsysinfo

 **NOTE:** To use this subcommand, you must have **Administrator** privilege.

## Description

Sets the name or location of the chassis.

## Usage

```
racadm setsysinfo [-c chassisname|chassislocation]  
<string>
```

## Option

**Table 2-33. setsysinfo Subcommand Options**

| Option   | Description                                                            |
|----------|------------------------------------------------------------------------|
| <string> | Indicates a maximum of 64 non-extended ASCII chassis name or location. |
| -c       | Sets the chassis name or location.                                     |

## Example

```
racadm setsysinfo -c chassisname "Dell Rack System"
```

The chassis name was set successfully.

# sshpkauth

## Description

Enables you to upload and manage up to 4 different SSH public keys *per user*. You can upload a key file or key text, view keys, or delete keys. This command has three mutually exclusive modes—upload, view, and delete that are determined by the options (see Table 2-34) provided to the command.

## Synopsis

```
racadm sshpkauth
```

## Upload

The upload mode allows you to upload a keyfile or to copy the key text on the command line. You cannot upload and copy a key at the same time.

*Local and Remote RACADM:*

```
racadm sshpkauth -i <2 to 16> -k <1 to 4> -f  
<filename>
```

```
racadm sshpkauth -i <2 to 16> -k <1 to 4> -t  
<key-text>
```



Telnet/ssh/serial RACADM:

```
racadm sshpkauth -i <2 to 16> -k <1 to 4> -t  
<key-text>
```

### View

The view mode allows the user to view a key specified by the user or all keys.

```
racadm sshpkauth -i <2 to 16> -v -k <1 to 4>  
racadm sshpkauth -i <2 to 16> -v -k all
```

### Delete

The delete mode allows the user to delete a key specified by the user or all keys.

```
racadm sshpkauth -i <2 to 16> -d -k <1 to 4>  
racadm sshpkauth -i <2 to 16> -d -k all
```

### Options

**Table 2-34. sshpkauth Subcommand Options**

| Option                 | Description                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| -i <user index>        | Index for the user. <user index> must be between 2 to 16 on iDRAC6.                                                                                     |
| -k [<key index>   all] | Index to assign the PK key being uploaded. <b>all</b> only works with the -v or -d options. <key index> must be between 1 to 4 or <b>all</b> on iDRAC6. |
| -t <PK Key Text>       | Key text for the SSH Public key.                                                                                                                        |
| -f <filename>          | File containing the key text to upload. The -f option is not supported on Telnet/ssh/serial RACADM.                                                     |
| -v                     | View the key text for the index provided.                                                                                                               |
| -d                     | Delete the key for the index provided.                                                                                                                  |

## Examples

Upload an invalid key to iDRAC6 User 2 in the first key space using a string:

```
$ racadm sshpkauth -i 2 -k 1 -t "This is invalid key  
Text"
```

ERROR: Key text appears to be corrupt

Upload a valid key to iDRAC6 User 2 in the first key space using a file:

```
$ racadm sshpkauth -i 2 -k 1 -f pkkey.key
```

Key file successfully uploaded.

Get all keys for User 2 on iDRAC6:

```
$ racadm sshpkauth -v -i 2 -k all
```

```
***** User ID 2 *****
```

Key ID 1:

ssh-rsa

AAAAB3NzaC1yc2EAAAABIwAAAIEAzzy+k2nprKqVEXGXIZo0sbR6J  
gA5YNbWs3ekoxXV

fe3yJVpVc/5zrrr7XrwKbJAJTqSw8Dg3iR4n3vUaP+lPHmUv5Mn55  
Ea6LHUsLAXFqXmOdlThd

wilU2VLw/iRH1ZymUFnut8ggbpQgqV2L8bsUaMqb5PooIIvV6hy4i  
sCNJU= 1024-bit RSA, converted from OpenSSH by

xx\_xx@xx.xx

Key ID 2:

Key ID 3:

Key ID 4:

# sslcertdownload



**NOTE:** To use this subcommand, you must have **Configure iDRAC** permission.

| Subcommand    | Description                                                           |
|---------------|-----------------------------------------------------------------------|
| sslcertupload | Downloads an SSL certificate from iDRAC6 to the client's file system. |

## Synopsis

```
racadm sslcertdownload -t <type> [-f <filename>]
```

## Options

Table 2-35 describes the `sslcertdownload` subcommand options.

**Table 2-35. sslcertdownload Subcommand Options**


| Option | Description                                                                                                                                                                                     |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -t     | Specifies the type of certificate to download, either the CA certificate for Directory Service or the server certificate.<br>1 = server certificate<br>2 = CA certificate for Directory Service |
| -f     | Specifies the file name of the certificate to be uploaded. If the -f option or the filename is not specified, the <code>sslcert</code> file in the current directory is selected.               |

The `sslcertdownload` command returns 0 when successful and returns a nonzero number when unsuccessful.

## Example

```
racadm sslcertdownload -t 1 -f c:\cert\cert.txt
```

# sslcertupload

 **NOTE:** To use this subcommand, you must have **Configure iDRAC** permission.

| Subcommand    | Description                                                                                    |
|---------------|------------------------------------------------------------------------------------------------|
| sslcertupload | Uploads a custom SSL server or CA certificate for Directory Service from the client to iDRAC6. |

## Synopsis

```
racadm sslcertupload -t <type> [-f <filename>]
```

## Options

Table 2-36 describes the `sslcertupload` subcommand options.

**Table 2-36. sslcertupload Subcommand Options**


| Option | Description                                                                                                                                                                                   |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -t     | Specifies the type of certificate to upload, either the CA certificate for Directory Service or the server certificate.<br>1 = server certificate<br>2 = CA certificate for Directory Service |
| -f     | Specifies the file name of the certificate to be uploaded. If the file is not specified, the <code>sslcert</code> file in the current directory is selected.                                  |

The `sslcertupload` command returns 0 when successful and returns a nonzero number when unsuccessful.

## Example

```
racadm sslcertupload -t 1 -f c:\cert\cert.txt
```

# sslcertview

 **NOTE:** To use this subcommand, you must have **Configure iDRAC** permission.

| Subcommand  | Description                                                      |
|-------------|------------------------------------------------------------------|
| sslcertview | Displays the SSL server or CA certificate that exists on iDRAC6. |

## Synopsis

```
racadm sslcertview -t <type> [-A]
```

## Options

Table 2-37 describes the sslcertview subcommand options.

**Table 2-37. sslcertview Subcommand Options**

| Option | Description                                                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -t     | Specifies the type of certificate to view, either the CA certificate or server certificate.<br>1 = server certificate<br>2 = CA certificate for Directory Service |
| -A     | Prevents printing headers/labels.                                                                                                                                 |

## Sample Output

```
racadm sslcertview -t 1
```

```
Serial Number           : 00
```

```
Subject Information:
```

```
Country Code (CC)      : US
```

```
State (S)              : Texas
```

```
Locality (L)          : Round Rock
```

```
Organization (O)      : Dell Inc.
```

Organizational Unit (OU) : Remote Access Group  
Common Name (CN) : iDRAC6 default certificate

Issuer Information:

Country Code (CC) : US  
State (S) : Texas  
Locality (L) : Round Rock  
Organization (O) : Dell Inc.  
Organizational Unit (OU) : Remote Access Group  
Common Name (CN) : iDRAC6 default certificate

Valid From : Jul 8 16:21:56 2005 GMT  
Valid To : Jul 7 16:21:56 2010 GMT

racadm sslcertview -t 1 -A

00  
US  
Texas  
Round Rock  
Dell Inc.  
Remote Access Group  
iDRAC6 default certificate  
US  
Texas  
Round Rock  
Dell Inc.  
Remote Access Group  
iDRAC6 default certificate  
Jul 8 16:21:56 2005 GMT  
Jul 7 16:21:56 2010 GMT

# sslcsrgen



**NOTE:** To use this subcommand, you must have **Configure iDRAC** permission.

## Description

The `sslcsrgen` subcommand can be used to generate a CSR and download the file to the client's local file system. The CSR can be used for creating a custom SSL certificate that can be used for SSL transactions on iDRAC6.

## Synopsis

```
racadm sslcsrgen [-g] [-f <filename>]
```

```
racadm sslcsrgen -s
```

## Options

Table 2-38 describes the `sslcsrgen` subcommand options.



**NOTE:** The `-f` option is not supported for the serial/Telnet/ssh console.

**Table 2-38. sslcsrgen Subcommand Options**

| Option | Description                                                                               |
|--------|-------------------------------------------------------------------------------------------|
| -g     | Generates a new CSR.                                                                      |
| -s     | Returns the status of a CSR generation process (generation in progress, active, or none). |
| -f     | Specifies the filename of the location, <filename>, where the CSR is downloaded.          |




**NOTE:** If the `-f` option is not specified, the filename defaults to `sslcsr` in your current directory.


If no options are specified, a CSR is generated and downloaded to the local file system as `sslcsr` by default. The `-g` option cannot be used with the `-s` option, and the `-f` option can only be used with the `-g` option.

The `sslcsrgen -s` subcommand returns one of the following status codes:

- CSR was generated successfully.
- CSR does not exist.
- CSR generation in progress.

 **NOTE:** Before a CSR can be generated, the CSR fields must be configured in the RACADM **cfgRacSecurity** group. For example:

```
racadm config -g cfgRacSecurity -o  
cfgRacSecCsrCommonName MyCompany
```

 **NOTE:** In telnet/ssh console, you can only generate and not download the CSR file.


### Examples

```
racadm sslcsrigen -s
```

or

```
racadm sslcsrigen -g -f c:\csr\csrtest.txt
```

## sslkeyupload

 **NOTE:** To use this subcommand, you must have **Configure iDRAC** permission.

| Subcommand   | Description                                |
|--------------|--------------------------------------------|
| sslkeyupload | Uploads SSL key from the client to iDRAC6. |

### Synopsis

```
racadm sslkeyupload -t <type> -f <filename>
```

### Options

Table 2-39 describes the **sslkeyupload** subcommand options.

**Table 2-39. sslkeyupload Subcommand Options**

| Option | Description                                                                         |
|--------|-------------------------------------------------------------------------------------|
| -t     | Specifies the key to upload.<br>1 = SSL key used to generate the server certificate |
| -f     | Specifies the file name of the SSL key to be uploaded.                              |



The `sslkeyupload` command returns 0 when successful and returns a nonzero number when unsuccessful.

### Example

```
racadm sslkeyupload -t 1 -f c:\sslkey.txt
```

## sslresetcfg



**NOTE:** To use this subcommand, you must have **Chassis Configuration Administrator** privilege.

### Description

Regenerates the self-signed certificate used by the CMC Web GUI. The certificate takes effect 30 seconds after the command is entered.

### Usage

```
racadm sslresetcfg
```

### Example

- `racadm sslresetcfg`  
Certificate generated successfully and webserver restarted.



**NOTE:** For more information on managing SSL certificates, see the “Securing CMC Communications Using SSL and Digital Certificates” section in the *Dell Chassis Management Controller User Guide*.

## testemail

### Description

Sends a test e-mail from iDRAC6 to a specified destination. Prior to executing the test e-mail command, ensure that the SMTP server is configured and the specified index in the RACADM `cfgEmailAlert` group is enabled and configured properly. See “`cfgEmailAlert`” on page 160 for more information.

## Synopsis

`racadm testemail -i <index>`

Table 2-40 provides a list and associated commands for the `cfgEmailAlert` group.

**Table 2-40. testemail Configuration**

| Action                                                                | Command                                                                                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Enable the alert                                                      | <code>racadm config -g cfgEmailAlert -o cfgEmailAlertEnable -i 1 1</code>                                                   |
| Set the destination e-mail address                                    | <code>racadm config -g cfgEmailAlert -o cfgEmailAlertAddress -i 1 user1@mycompany.com</code>                                |
| Set the custom message that is sent to the destination e-mail address | <code>racadm config -g cfgEmailAlert -o cfgEmailAlertCustomMsg -i 1 "This is a test!"</code>                                |
| Ensure that the SMTP IP address is configured properly                | <code>racadm config -g cfgRemoteHosts -o cfgRhostsSmtplibServerIpAddr 192.168.0.152</code>                                  |
| View the current e-mail alert settings                                | <code>racadm getconfig -g cfgEmailAlert -i &lt;index&gt;</code><br>where <code>&lt;index&gt;</code> is a number from 1 to 4 |

## Options

Table 2-41 describes the `testemail` subcommand options.

**Table 2-41. testemail Subcommands**

| Option          | Description                                      |
|-----------------|--------------------------------------------------|
| <code>-i</code> | Specifies the index of the e-mail alert to test. |

## Output

Success: Test e-mail sent successfully

Failure: Unable to send test e-mail

# testfeature

## Description

Generic test command consisting of several sub-commands that allow you to verify the configuration and operation of specific features.

## Options

**Table 2-42. testfeature Subcommand Options**

| Option           | Description                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -f<br><feature>  | Specifies the feature name. <b>testfeature</b> supports the following features: <ul style="list-style-type: none"><li>• ad — Tests Active Directory configuration using simple authentication (user name and password)</li><li>• adkrb — Tests Active Directory configuration using Kerberos authentication</li><li>• ldap — Tests LDAP configuration and operation (requires user name and password)</li></ul> |
| -u<br><username> | The user name specified in an appropriate format for the selected authentication method. That is, Active Directory users are specified as user_name@domain_name.                                                                                                                                                                                                                                                |
| -p <password>    | The password for the indicated user account.                                                                                                                                                                                                                                                                                                                                                                    |
| -d <bitmask>     | A bitmask (specified as a hexadecimal value) to select various diagnostic messaging levels. This option is optional.<br><b>NOTE:</b> -d option is not supported with the remote racadm interface.                                                                                                                                                                                                               |

## Examples

- `testfeature -f ad -u user@domain -p secret`  
SUCCESSFUL: User permissions are xxxxxxppp
- `testfeature -f adkrb -u user_name@domain_name`  
SUCCESSFUL: User permissions are 80000fff
- `testfeature -f ldap -u harold -p barrel`  
SUCCESSFUL: User permissions are 0x00000fff



**NOTE:** The last three digits are the user's permissions.

## Subcommands

### testfeature -f ad

#### Usage

```
testfeature -f ad -u <username> -p <password> [-d  
<diagnostic-message-level>]
```

This subcommand tests Active Directory configuration using simple authentication (user name and password). Use the optional `-d` switch to obtain additional diagnostic information, as needed.

This subcommand when executed performs the following:

- Checks command syntax.
- Verifies whether the required system resources are available.
- Validates Active Directory configuration.
- Verifies the SSL certificate and if the certificate signing request (key) exists.
- Acquires LDAP and Global Catalog Service records from DNS.
- Acquires user privileges from the Active Directory server.
- Checks the time to acquire user privileges with the allotted time to login.



**NOTE:** In the event of an error, the command displays the test that failed and all the tests performed earlier to the test that failed, including all the error messages.

## testfeature -f adkrb

### Usage

```
testfeature -f adkrb -u <username> [-d <diagnostic-  
message-level>]
```

This subcommand tests the Active Directory configuration using Kerberos authentication (single sign-on or Smart Card login). Use the optional **-d** switch to obtain additional diagnostic information, as needed. This subcommand when executed performs the following:

- Checks command syntax.
- Verifies if the required system resources are available.
- Validates Active Directory configuration.
- Verifies if the SSL certificate and certificate signing request (key) exists.
- Acquires LDAP and Global Catalog Service records from DNS.
- Verifies if the CMC can acquire CMC, LDAP and Global Catalog servers FQDN through reverse IP lookups.
- Verifies that the CMC principal name matches the principal name in the uploaded Keytab file.
- Verifies that the CMC acquires a Kerberos TGT.
- Acquires user privileges from the Active Directory server.
- Checks the time to acquire user privileges with the allotted time to login.



**NOTE:** In the event of an error, the command outputs all tests performed up to and including the test that failed, as well as all error messages.

## testfeature -f ldap

### Usage

```
testfeature -f ldap -u <username> -p <password> [-d  
<diagnostic-message-level>]
```

This subcommand tests LDAP configuration and operation, and reports success as each stage of the authentication process proceeds. On successful completion, this command prints the CMC privileges assumed by the specified **<username>**.

If a failure occurs, the command terminates with an error message that displays the required corrective action. Use the optional **-d** switch to obtain additional diagnostic information, as needed.

## testtrap



**NOTE:** To use this subcommand, you must have **Test Alerts** permission.

### Description

The **testtrap** subcommand tests the RAC's SNMP trap alerting feature by sending a test trap from iDRAC6 to a specified destination trap listener on the network.

Before you execute the **testtrap** subcommand, ensure that the specified index in the RACADM **cfgIpmiPet** group is configured properly. For more information, see "cfgIpmiPet" on page 222.

Table 2-43 provides a list and associated commands for the **cfgIpmiPet** group.

**Table 2-43. cfgEmailAlert Commands**

| Action                                | Command                                                                                                           |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Enable the alert                      | <pre>racadm config -g cfgIpmiPet -o<br/>cfgIpmiPetAlertEnable -i 1 1</pre>                                        |
| Set the destination e-mail IP address | <pre>racadm config -g cfgIpmiPet -o<br/>cfgIpmiPetAlertDestIpAddress -i 1<br/>192.168.0.110</pre>                 |
| View the current test trap settings   | <pre>racadm getconfig -g cfgIpmiPet -i<br/>&lt;index&gt;</pre> <p>where &lt;index&gt; is a number from 1 to 4</p> |

### Synopsis

```
racadm testtrap -i <index>
```

## Input

Table 2-44 describes the **testtrap** subcommand options.

**Table 2-44. testtrap Subcommand Options**

| Option | Description                                                                                     |
|--------|-------------------------------------------------------------------------------------------------|
| -i     | Specifies the index of the trap configuration to use for the test Valid values are from 1 to 4. |

## traceroute



**NOTE:** To use this subcommand, you must have **Administrator** permission.

| Subcommand | Definition                                                                                                                 |
|------------|----------------------------------------------------------------------------------------------------------------------------|
| traceroute | Traces the network path of routers that packets take as they are forwarded from your system to a destination IPv4 address. |

## Synopsis

```
racadm traceroute <IPv4 address>
```

```
racadm traceroute 192.168.0.1
```

```
traceroute to 192.168.0.1 (192.168.0.1), 30 hops max,  
40 byte packets
```

```
1 192.168.0.1 (192.168.0.1) 0.801 ms 0.246 ms 0.253 ms
```

## traceroute6



**NOTE:** To use this subcommand, you must have **Administrator** permission.

| Subcommand  | Definition                                                                                                                 |
|-------------|----------------------------------------------------------------------------------------------------------------------------|
| traceroute6 | Traces the network path of routers that packets take as they are forwarded from your system to a destination IPv6 address. |

## Synopsis

```
racadm traceroute6 <IPv6 address>
```

```
racadm traceroute fd01::1
```

```
traceroute to fd01::1 (fd01::1) from fd01::3, 30 hops  
max, 16 byte packets
```

```
1 fd01::1 (fd01::1) 14.324 ms 0.26 ms 0.244 ms
```

## usercertupload



**NOTE:** To use this subcommand, you must have **Configure iDRAC** permission.

| Subcommand     | Description                                                                    |
|----------------|--------------------------------------------------------------------------------|
| usercertupload | Uploads a user certificate or a user CA certificate from the client to iDRAC6. |

## Synopsis

```
racadm usercertupload -t <type> [-f <filename>] -i  
<index>
```

## Options

Table 2-45 describes the **usercertupload** subcommand options.

**Table 2-45. usercertupload Subcommand Options**

| Option | Description                                                                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -t     | Specifies the type of certificate to upload, either the CA certificate or server certificate.<br><br>1 = user certificate<br>2 = user CA certificate         |
| -f     | Specifies the file name of the certificate to be uploaded. If the file is not specified, the <code>sslcert</code> file in the current directory is selected. |
| -i     | Index number of the user. Valid values 1-16.                                                                                                                 |



The `usercertupload` command returns 0 when successful and returns a nonzero number when unsuccessful.

## Example

```
racadm usercertupload -t 1 -f c:\cert\cert.txt -i 6
```

## usercertview



**NOTE:** To use this subcommand, you must have **Configure iDRAC** permission.

| Subcommand   | Description                                                                 |
|--------------|-----------------------------------------------------------------------------|
| usercertview | Displays the user certificate or user CA certificate that exists on iDRAC6. |

## Synopsis

```
racadm sslcertview -t <type> [-A] -i <index>
```

## Options

Table 2-46 describes the `sslcertview` subcommand options.

**Table 2-46. sslcertview Subcommand Options**

| Option | Description                                                                                                                                           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| -t     | Specifies the type of certificate to view, either the user certificate or the user CA certificate.<br>1 = user certificate<br>2 = user CA certificate |
| -A     | Prevents printing headers/labels.                                                                                                                     |
| -i     | Index number of the user. Valid values are 1-16.                                                                                                      |


# version

| Subcommand | Description                              |
|------------|------------------------------------------|
| version    | Displays the RACADM version information. |

## Synopsis

```
racadm version
```

# vflashsd

 **NOTE:** To use this subcommand, you must have **Access Virtual Media** privilege.


## Description

The vflashsd subcommand allows you to initialize or get the status of the vFlash SD card. The initialize operation removes all existing partitions and resets the card. The status operation displays the status of the last operation performed on the card.

## Synopsis

```
racadm vflashsd initialize  
racadm vflashsd status
```

# vflashpartition

 **NOTE:** To use this subcommand, you must have **Access Virtual Media** privilege.

## Description

The `vflashpartition` subcommand allows you to perform the following:

- Create an empty partition
- Create a partition using an image file
- Format a partition
- View available partitions
- Delete existing partitions
- Get the status of partitions

 **NOTE:** Create partition using image file is not supported in local RACADM.

## Synopsis

```
racadm vflashpartition create <options>
racadm vflashpartition delete <options>
racadm vflashpartition status <options>
racadm vflashpartition list <options>
```

## Options

Table 2-47 describes the `sslcrtview` subcommand options.

**Table 2-47. vflashpartition Subcommand Options**

| Option     | Description                                                                                                                                                                                                               |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -i <index> | Index of the partition for which this command applies.<br><index> must be an integer from 1 to 16.<br><b>NOTE:</b> For the standard SD card, the index value is 1 because only one partition of size 256 MB is supported. |

Options valid only with create action

**Table 2-47. vflashpartition Subcommand Options (continued)**

| -o <label>                            | Label that is displayed when the partition is mounted on the operating system.<br><label> must be a string up to six alphanumeric characters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -e <type>                             | Emulation type for the partition. <type> must be floppy, cddvd, or HDD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Option                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| -t <type>                             | Create a partition of type <type>. <type> must be: <ul style="list-style-type: none"><li>• empty – Create an empty partition. The following options are valid with the empty type:<ul style="list-style-type: none"><li>• -s &lt;size&gt; – Partition size in MB.</li><li>• -f &lt;type&gt; – Format type for the partition based on the type of file system. Valid options are RAW, FAT16, FAT32, EXT2, or EXT3.</li></ul></li><li>• image – Create a partition using an image relative to iDRAC. The following options are valid with the image type:<ul style="list-style-type: none"><li>• -l &lt;path&gt; – Specifies the remote path relative to iDRAC. The path can be on a mounted drive:<br/>SMB path: //&lt;ip or domain&gt;/&lt;share_name&gt;/&lt;path_to_image&gt;<br/>NFS path: &lt;ipaddress&gt;:/&lt;path_to_image&gt;</li><li>• -u &lt;user&gt; – Username for accessing the remote image.</li><li>• -p &lt;password&gt; – Password for accessing the remote image.</li></ul></li></ul> |
| Options valid only with status action |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| -a                                    | Displays the status of operations on all existing partitions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Examples

- To create a 20MB empty partition:

```
racadm vflashpartition create -i 1 -o drive1 -t empty -e HDD -f fat16 -s 20
```
- To create a partition using an image file on a remote system:

```
racadm vflashpartition create -i 1 -o drive1 -e HDD -t image -l //myserver/sharedfolder/foo.iso -u root -p mypassword
```

- To delete a partition:  

```
racadm vflashpartition delete -i 1
```
- To delete all partitions, re-initialize the vFlash SD card.  

```
racadm vflashsd initialize
```
- To get the status of operation on partition 1:  

```
racadm vflashpartition status -i 1
```
- To get the status of all existing partitions:  

```
racadm vflashpartition status -a
```
- To list all existing partitions and its properties:  

```
racadm vflashpartition list
```
- To get the partition size:  

```
racadm getconfig -g cfgvflashpartition -o  
cfgvflashpartitionsizesize -i 1
```
- To display the emulation type:  

```
racadm getconfig -g cfgvflashpartition -I 1 -o  
cfgvflashpartitionemulatiotype
```
- To display the label for the partition that is visible to the operating system:  


```
racadm getconfig -g cfgvflashpartition -i 1 -o  
cfgvflashPartitionlabel
```
- To display the format type of the partition:  

```
racadm getconfig -g cfgvflashpartition -i 1 -o  
cfgvflashPartitionFormatType
```
- To change a read-only partition to read-write:  

```
racadm config -g cfgvflashpartition -i 1 -o  
cfgvflashPartitionAccessType 1
```
- To attach a partition to the host operating system:  

```
racadm config -g cfgvflashpartition -i 1 -o  
cfgvflashPartitionAttachState 1
```

# vmdisconnect

 **NOTE:** To use this subcommand, you must have **Access Virtual Media** permission.

## Description


The **vmdisconnect** subcommand allows a user to disconnect another user's Virtual Media session. Once disconnected, the Web-based interface reflects the correct connection status.

The **vmdisconnect** subcommand enables a iDRAC6 user to disconnect all active Virtual Media sessions. The active Virtual Media sessions can be displayed in iDRAC6 Web-based interface or by using the RACADM subcommands such as **remoteimage** or **getssninfo**.

## Synopsis

```
racadm vmdisconnect
```

# vmkey

 **NOTE:** To use this subcommand, you must have **Access Virtual Media** permission.


## Description

When a custom Virtual Media key image is uploaded to the RAC, the key size becomes the image size. The **vmkey** subcommand can be used to reset the key back to its original default size, which is 256 MB on iDRAC6.

## Synopsis

```
racadm vmkey <action>
```

If *<action>* is configured as **reset**, the vFlash memory is reset to the default size of 256 MB and removes all data from it.

 **NOTE:** This command is deprecated from iDRAC6 1.5 and iDRAC6 3.0 releases onwards. The functionality of this command is now covered by **vflashsd initialize**. While execution of the **vmkey reset** command is successful, it is recommended to use the **vflashsd initialize** command. For more information, see "vflashsd" on page 130.

# iDRAC6 and CMC Property Database Group and Object Definitions

The iDRAC6 and CMC property database contains the configuration information for iDRAC6 and CMC. Data is organized by associated object, and objects are organized by object group. The IDs for the groups and objects that the property database supports are listed in this section for iDRAC6 Enterprise on Blade Servers, iDRAC6 Enterprise or Express on Rack and Tower Servers and CMC.

Use the group and object IDs with the RACADM subcommands to configure iDRAC6 and CMC.

Table 3-1 provides an overview of the object groups applicable for iDRAC6 Enterprise on Blade Servers, iDRAC6 on Rack and Tower Servers and CMC.

**△ CAUTION: Racadm sets the value of objects without performing any functional validation on them. For example, RACADM allows you to set the Certificate Validation object to 1 with the Active Directory object set to 0, even though Certificate Validation can happen only if Active Directory is enabled. Similarly, the cfgADSSOEnable object can be set to 0 or 1 even if the cfgADEnable object is 0, but it takes effect only if Active Directory is enabled.**

All string values are limited to displayable ASCII characters, except where otherwise noted.

## Displayable Characters

Displayable characters include the following set:

```
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789~`!@#$%^&*()_+={ } [ ] | \ : " ; ' < > , . ? /
```

**Table 3-1. Supported Object Groups**

| Subcommand           | iDRAC6 on Blade Servers | iDRAC6 on Rack and Tower Servers | CMC |
|----------------------|-------------------------|----------------------------------|-----|
| idRacInfo            | ✓                       | ✓                                | ✓   |
| cfgLanNetworking     | ✓                       | ✓                                | ✓   |
| cfgRemoteHosts       | ✓                       | ✓                                | ✓   |
| cfgUserAdmin         | ✓                       | ✓                                | ✓   |
| cfgEmailAlert        | ✓                       | ✓                                | ✓   |
| cfgSessionManagement | ✓                       | ✓                                | ✓   |
| cfgSerial            | ✗                       | ✓                                | ✓   |
| cfgOobSnmpp          | ✓                       | ✓                                | ✓   |
| cfgTraps             | ✗                       | ✗                                | ✓   |
| cfgRacTuning         | ✓                       | ✓                                | ✓   |
| ifcRacManagedNodeOs  | ✓                       | ✓                                | ✗   |
| cfgRacSecurity       | ✓                       | ✓                                | ✓   |
| cfgRacVirtual        | ✓                       | ✓                                | ✗   |
| cfgServerInfo        | ✗                       | ✓                                | ✓   |
| cfgActiveDirectory   | ✓                       | ✓                                | ✓   |
| cfgLDAP              | ✓                       | ✓                                | ✓   |
| cfgLdapRoleGroup     | ✓                       | ✓                                | ✓   |
| cfgStandardSchema    | ✓                       | ✓                                | ✓   |
| cfgChassisPower      | ✗                       | ✗                                | ✓   |
| cfgIpmiSol           | ✓                       | ✓                                | ✗   |



**Table 3-1. Supported Object Groups (continued)**

| <b>Subcommand</b>                       | <b>iDRAC6 on Blade Servers</b> | <b>iDRAC6 on Rack and Tower Servers</b> | <b>CMC</b> |
|-----------------------------------------|--------------------------------|-----------------------------------------|------------|
| cfgIpmiLan                              | ✓                              | ✓                                       | ✗          |
| cfgIpmiPetIpv6                          | ✓                              | ✓                                       | ✗          |
| cfgIpmiPef                              | ✓                              | ✓                                       | ✗          |
| cfgIpmiPet                              | ✓                              | ✓                                       | ✗          |
| cfgUserDomain                           | ✓                              | ✓                                       | ✗          |
| cfgServerPower                          | ✓                              | ✓                                       | ✗          |
| cfgKVMInfo                              | ✗                              | ✗                                       | ✓          |
| cfgAlerting                             | ✗                              | ✗                                       | ✓          |
| cfgServerPowerSupply                    | ✗                              | ✓                                       | ✗          |
| cfgIPv6LanNetworking                    | ✓                              | ✓                                       | ✓          |
| cfgCurrentLanNetworking (read only)     | ✗                              | ✗                                       | ✓          |
| cfgCurrentIPv6LanNetworking (read only) | ✗                              | ✗                                       | ✓          |
| cfgIPv6URL                              | ✓                              | ✓                                       | ✗          |
| cfgIpmiSerial                           | ✗                              | ✓                                       | ✗          |
| cfgSmartCard                            | ✓                              | ✓                                       | ✗          |
| cfgNetTuning                            | ✗                              | ✓                                       | ✓          |
| cfgSensorRedundancy                     | ✗                              | ✓                                       | ✗          |
| cfgVFlashSD                             | ✓                              | ✓                                       | ✗          |
| cfgVFlashPartition                      | ✓                              | ✓                                       | ✗          |

✓ = Supported; ✗ = Not supported

# idRacInfo

This group contains display parameters to provide information about the specifics of iDRAC6 or CMC being queried. One instance of the group is allowed.



**NOTE:** For CMC, use this object with the **getConfig** subcommand.



**NOTE:** To use this object for CMC, you must have **CMC Login User** privilege.

The following sections provides information about the objects in the idRACInfo group.

## idRacProductInfo (Read Only)

- Description** A text string that identifies the product.
- Legal Values** A string of up to 63 ASCII characters.
- Default for iDRAC** Integrated Dell Remote Access Controller.
- Default for CMC** Chassis Management Controller.

## idRacDescriptionInfo (Read Only)

- Description** A text description of the RAC type.
- Legal Values** A string of up to 255 ASCII characters.
- Default** This system component provides a complete set of remote management functions for Dell PowerEdge servers.

## idRacVersionInfo (Read Only)

- Description** String containing the current product firmware version.
- Legal Values** A string of up to 63 ASCII characters.
- Default** The current version number.

## idRacBuildInfo (Read Only)

- Description** String containing the current RAC firmware build version.
- Legal Values** A string of up to 16 ASCII characters.

|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| <b>Description</b>       | String containing the current RAC firmware build version. |
| <b>Default for iDRAC</b> | The current iDRAC6 firmware build version.                |
| <b>Default for CMC</b>   | The current CMC firmware build version.                   |

### **idRacName (Read Only)**

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| <b>Description</b>       | A user-assigned name to identify this controller. |
| <b>Legal Values</b>      | A string of up to 15 ASCII characters.            |
| <b>Default for iDRAC</b> | iDRAC                                             |
| <b>Default for CMC</b>   | CMC                                               |

### **idRacType (Read Only)**

|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| <b>Description</b>  | Identifies the remote access controller type as iDRAC6.                         |
| <b>Legal Values</b> | Product ID                                                                      |
| <b>Default</b>      | For iDRAC6 on Rack and Servers: 10<br>For iDRAC6 Enterprise on Blade Servers: 8 |

### **Example**


```
racadm getconfig -g idRacInfo
# idRacType=8
# idRacProductInfo=Chassis Management Controller
# idRacDescriptionInfo=This system component provides
a complete set of remote management functions for
blade servers
# idRacVersionInfo=P21
# idRacBuildInfo=200708301525
# idRacName=CMC-1
```


# cfgLanNetworking


This group contains parameters to configure iDRAC6 or CMC NIC.


One instance of the group is allowed. Some objects in this group may require iDRAC6 NIC to be reset, which may cause a brief loss in connectivity.

Objects that change iDRAC6 NIC IP address settings closes all active user sessions and require users to reconnect using the updated IP address settings.

 **NOTE:** For CMC, use this object with the **config** or **getconfig** subcommands.

 **NOTE:** To use this object property for CMC, you must have Chassis Configuration Administrator privilege.

 **NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the -o option.

 **NOTE:** For any network property changes on iDRAC6 to be successfully executed through RACADM, you must first enable iDRAC6 NIC.

The following sections provides information about the objects in the cfgLanNetworking group.

## cfgNicIPv4Enable (Read/Write)

**Description** Enables or disables iDRAC6 or CMC IPv4 stack.

**Legal Values** 1 (TRUE)  
0 (FALSE)

**Default** 1

## cfgNicSelection (Read/Write)



**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

**Description** Specifies the current mode of operation for the RAC network interface controller (NIC). Table 3-2 describes the supported modes.

**Legal Values** 0 = Shared  
1 = Shared with Failover LOM2  
2 = Dedicated  
3 = Shared with Failover All LOMs (iDRAC6 Enterprise only)

**Default** 0 (iDRAC6 Express)  
2 (iDRAC6 Enterprise)

**Table 3-2. cfgNicSelection Supported Modes**

| Mode                           | Description                                                                                                                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shared                         | Used if the host server integrated NIC is shared with the RAC on the host server. This mode enables configurations to use the same IP address on the host server and the RAC for common accessibility on the network. |
| Shared with Failover:<br>LOM 2 | Enables teaming capabilities between host server LOM2 integrated network interface controllers.                                                                                                                       |
| Dedicated                      | Specifies that the RAC NIC is used as the dedicated NIC for remote accessibility.                                                                                                                                     |

**Table 3-2. cfgNicSelection Supported Modes (continued)**

| <b>Mode</b>                   | <b>Description (continued)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shared with Failover All LOMs | <p>Enables teaming capabilities between all LOMs on the host server integrated network interface controllers.</p> <p>The remote access device network interface is fully functional when the host operating system is configured for NIC teaming. The remote access device receives data through NIC 1 and NIC 2, but transmits data only through NIC 1.</p> <p>Failover occurs from NIC 2 to NIC 3 and then to NIC 4. If NIC 4 fails, the remote access device fails over all data transmission back to NIC 1, but only if the original NIC 1 failure has been corrected.</p> |

### **cfgNicVlanEnable (Read/Write)**



**NOTE:** For iDRAC6 Enterprise on Blade Servers, this object is read-only and VLAN settings can be configured through CMC Web Interface. iDRAC6 displays only the current VLAN settings and you cannot modify the settings from iDRAC6.

**Description**

Enables or disables the VLAN capabilities of the RAC/BMC.

**NOTE:** For iDRAC6 Enterprise on Blade Servers, this object enables or disables the VLAN capabilities of iDRAC6 from CMC.

All chassis management traffic, including the CMC and all iDRACs, resides on this external VLAN when enabled. No iDRAC configuration change is required to use this external management network VLAN.

**Legal Values**

1 (TRUE)  
0 (FALSE)

**Default**

0

**Example**

```
racadm config -g cfgLanNetworking -o  
cfgNicVlanEnable 1  
  
racadm config -g cfgLanNetworking -o  
cfgNicVlanEnable 0
```

## cfgNicVlanId (Read/Write)

|                     |                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the VLAN ID for the network VLAN configuration (in CMC for iDRAC6 Enterprise on Blade Servers). This property is only valid if <code>cfgNicVlanEnable</code> is set to 1 (enabled). |
| <b>Legal Values</b> | 1 – 4000 and 4021 – 4094                                                                                                                                                                      |
| <b>Default</b>      | 1                                                                                                                                                                                             |
| <b>Example</b>      | <pre>racadm config -g cfgLanNetworking -o<br/>cfgNicVlanID 1</pre>                                                                                                                            |

## cfgNicVlanPriority (Read/Write)

|                     |                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the VLAN Priority for the network VLAN configuration (in CMC for iDRAC6 Enterprise on Blade Servers). This property is only valid if <code>cfgNicVlanEnable</code> is set to 1 (enabled). |
| <b>Legal Values</b> | 0-7                                                                                                                                                                                                 |
| <b>Default</b>      | 0                                                                                                                                                                                                   |
| <b>Example</b>      | <pre>racadm config -g cfgLanNetworking -o<br/>cfgNicVlanPriority 7</pre>                                                                                                                            |

## cfgDNSDomainNameFromDHCP (Read/Write)

|                     |                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies that iDRAC or CMC DNS domain name should be assigned from the network DHCP server. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                        |
| <b>Default</b>      | 0                                                                                            |

For CMC, this property is used only if `cfgNicUseDhcp` is set to 1 (true), or if both `cfgIPv6Enable` and `cfgIPv6AutoConfig` are set to 1 (true).

The CMC can obtain its DNS domain name from either a DHCP or DHCPv6 server, if all of the following properties are set to 1 (true):

- `cfgNicIPv4Enable`
- `cfgNicUseDhcp`

- `cfgIPv6Enable`
- `cfgIPv6AutoConfig`
- `cfgDNSDomainNameFromDHCP`
- `cfgDNSDomainName` (Read/Write)

The network administrator must ensure that these DHCP servers are configured to provide the same DNS domain name to the CMC, otherwise the domain name becomes unpredictable

**Description** This is the DNS domain name. This parameter is only valid if `cfgDNSDomainNameFromDHCP` is set to 0 (FALSE).

**Legal Values** A string of up to 254 ASCII characters. At least one of the characters must be alphabetic. Characters are restricted to alphanumeric, '-', and '!'.

**NOTE:** Microsoft Active Directory only supports Fully Qualified Domain Names (FQDN) of 64 bytes or fewer.

**Default** <blank>

### **cfgDNSRacName (Read/Write)**

**Description** Displays the iDRAC6 or CMC name, which is `rac-service tag` by default. This parameter is only valid if `cfgDNSRegisterRac` is set to 1 (TRUE).

**Legal Values** A string of up to 63 ASCII characters. At least one character must be alphabetic.

**NOTE:** Some DNS servers only register names of 31 characters or fewer.

**Default** For iDRAC: `idrac-<service tag>`

For CMC: `cmc-<service tag>`



## cfgDNSRegisterRac (Read/Write)

|                     |                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Registers the iDRAC6 or CMC name on the DNS server.<br><b>NOTE:</b> When you set this parameter, the CMC registers its DNS name for its IPv4 and IPv6 addresses with the DNS server. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                |
| <b>Default</b>      | 0                                                                                                                                                                                    |

Example:

```
racadm getconfig -g cfgLanNetworking
cfgNicEnable=1
cfgNicIPv4Enable=1
cfgNicIpAddress=192.168.22.101
cfgNicNetmask=255.255.255.0
cfgNicGateway=192.168.22.101
cfgNicUseDhcp=1
# cfgNicMacAddress=00:00:00:00:00:01
cfgNicVlanEnable=0
cfgNicVlanID=1
cfgNicVlanPriority=0
cfgDNSServersFromDHCP=1
cfgDNSServer1=192.168.0.5
cfgDNSServer2=192.168.0.6
cfgDNSRacName=cmc-frankly
cfgDNSDomainName=fwad.lab
cfgDNSDomainNameFromDHCP=1
cfgDNSRegisterRac=1
```



**NOTE:** For IPv6 addresses, only the DHCPv6 address or static address is registered.

## cfgDNSServersFromDHCP (Read/Write)

|                     |                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies if the DNS server IPv4 addresses should be assigned from the DHCP server on the network.<br>For CMC, this property is used only if <code>cfgNicUseDhcp</code> is set to 1 (true). |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                       |
| <b>Default</b>      | 0                                                                                                                                                                                           |

## cfgDNSServer1 (Read/Write)

|                     |                                                                                                                                                                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the IPv4 address for DNS server 1. This property is only valid if <code>cfgDNSServersFromDHCP</code> is set to 0 (FALSE).<br><b>NOTE:</b> <code>cfgDNSServer1</code> and <code>cfgDNSServer2</code> may be set to identical values while swapping addresses. |
| <b>Legal Values</b> | String representing a valid IPv4 address. For example: 192.168.0.20.                                                                                                                                                                                                   |
| <b>Default</b>      | 0.0.0.0                                                                                                                                                                                                                                                                |


## cfgDNSServer2 (Read/Write)

|                     |                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Retrieves the IPv4 address for DNS server 2. This parameter is only valid if <code>cfgDNSServersFromDHCP</code> is set to 0 (FALSE).<br><b>NOTE:</b> <code>cfgDNSServer1</code> and <code>cfgDNSServer2</code> may be set to identical values while swapping addresses. |
| <b>Legal Values</b> | String representing a valid IPv4 address. For example: 192.168.0.20.                                                                                                                                                                                                    |
| <b>Default</b>      | 0.0.0.0                                                                                                                                                                                                                                                                 |

## cfgNicEnable (Read/Write)


|                     |                                                                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables iDRAC6 or CMC network interface controller. If the NIC is disabled, the remote network interfaces to iDRAC6 or CMC are no longer accessible and iDRAC6 or CMC are only available through the local or serial RACADM interface. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                                                                              |
| <b>Default</b>      | 1                                                                                                                                                                                                                                                  |

## cfgNicIpAddress (Read/Write)

 **NOTE:** This parameter is only configurable if the **cfgNicUseDhcp** parameter is set to 0 (FALSE).

|                     |                                                                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the static IPv4 address to be assigned to the RAC or CMC. This property is only valid if <b>cfgNicUseDhcp</b> is set to 0 (FALSE).                                                      |
| <b>Legal Values</b> | String representing a valid IPv4 address. For example: 192.168.0.20.                                                                                                                              |
| <b>Default</b>      | For iDRAC6 on Rack and Tower Servers: 192.168.0.120<br>For iDRAC6 Enterprise on Blade Servers: 192.168.0. <i>n</i> , where <i>n</i> is 120 plus the server slot number.<br>For CMC: 192.168.0.120 |

## cfgNicNetmask (Read/Write)

 **NOTE:** This parameter is only configurable if the **cfgNicUseDhcp** parameter is set to 0 (FALSE).

|                     |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | The subnet mask used for iDRAC6 or CMC IP address. This property is only valid if <b>cfgNicUseDhcp</b> is set to 0 (FALSE). |
| <b>Legal Values</b> | String representing a valid subnet mask. For example: 255.255.255.0.                                                        |
| <b>Default</b>      | 255.255.255.0                                                                                                               |

## cfgNicGateway (Read/Write)



**NOTE:** This parameter is only configurable if the **cfgNicUseDhcp** parameter is set to 0 (FALSE).

|                     |                                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | iDRAC6 or CMC gateway IPv4 address.<br>The gateway IPv4 address used for static assignment of the RAC IP address. This property is only valid if <b>cfgNicUseDhcp</b> is set to 0 (FALSE). |
| <b>Legal Values</b> | String representing a valid gateway IPv4 address. For example: 192.168.0.1.                                                                                                                |
| <b>Default</b>      | 192.168.0.1                                                                                                                                                                                |

## cfgNicUseDhcp (Read/Write)

|                     |                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies whether DHCP is used to assign the iDRAC6 or CMC IPv4 address. If this property is set to 1 (TRUE), then iDRAC6 or CMC IPv4 address, subnet mask, and gateway are assigned from the DHCP server on the network. If this property is set to 0 (FALSE), the user can configure the <b>cfgNicIpAddress</b> , <b>cfgNicNetmask</b> , and <b>cfgNicGateway</b> properties. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                                                                                                                                                                                                           |
| <b>Default</b>      | 0                                                                                                                                                                                                                                                                                                                                                                               |

## cfgNicMacAddress (Read Only)

|                     |                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | The iDRAC6 or CMC NIC MAC address in the format: dd:dd:dd:dd:dd:dd, where d is a hexadecimal digit in range 0 - 9, A - F |
| <b>Legal Values</b> | String representing iDRAC6 or CMC NIC MAC address.                                                                       |
| <b>Default</b>      | The current MAC address of iDRAC6 or CMC NIC. For example, 00:12:67:52:51:A3.                                            |

## cfgRemoteHosts

This group provides properties that allow configuration of the SMTP server for e-mail alerts.

For CMC, this group enables/disables and configures firmware updates, NTP, remote syslogging, and SMTP email alerting. Use the -m option to apply this setting to iDRAC.



**NOTE:** Use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

The following sections provides information about the objects in the **cfgRemoteHosts** group.

### cfgRhostsFwUpdateTftpEnable (Read/Write)

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables iDRAC6 or CMC firmware update from a network TFTP server. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                         |
| <b>Default</b>      | 1                                                                             |

### cfgRhostsFwUpdateIpAddr (Read/Write)

|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the network TFTP server IPv4 or IPv6 address that is used for TFTP iDRAC6 or CMC firmware update operations. |
| <b>Legal Values</b> | A string representing a valid IPv4 or IPv6 address. For example, 192.168.0.61                                          |
| <b>Default</b>      | For IPv4, it is 0.0.0.0                                                                                                |

## cfgRhostsFwUpdatePath (Read/Write)

**Description** Specifies TFTP path where iDRAC6 or CMC firmware image file exists on the TFTP server. The TFTP path is relative to the TFTP root path on the TFTP server.

**NOTE:** The server may still require you to specify the drive (for example, **C:**).

**Legal Values** A string with a maximum length of 255 ASCII characters.

**Default** <blank>

## cfgRhostsSmtServerIpAddr (Read/Write)

**Description** The IPv4 or IPv6 address of the network SMTP server. The SMTP server transmits e-mail alerts from iDRAC6 or CMC if the alerts are configured and enabled.

**Legal Values** A string representing a valid SMTP server IPv4 or IPv6 address. For example: 192.168.0.55.

**Default** For iDRAC6: For IPv4, it is 0.0.0.0  
For CMC: localhost.localdomain

## cfgRhostsNtpEnable



**NOTE:** This object is applicable only for CMC.

**Description** Enables or disables the use of the Network Time Protocol (NTP) for date and time synchronization.

**Legal Values** 1 (true)  
0 (false)

**Default** 0

## cfgRhostsNtpServer1



**NOTE:** This object is applicable to CMC only.

|                     |                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the first of three possible NTP servers.                                                                                                    |
| <b>Legal Values</b> | A string representing a valid NTP server. For example, ntp1.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed. |
| <b>Default</b>      | Null                                                                                                                                                  |

## cfgRhostsNtpServer2



**NOTE:** This object is applicable only for CMC.

|                     |                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the second of three possible NTP servers.                                                                                                   |
| <b>Legal Values</b> | A string representing a valid NTP server. For example, ntp2.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed. |
| <b>Default</b>      | Null                                                                                                                                                  |


## cfgRhostsNtpServer3



**NOTE:** This object is applicable only for CMC.

|                     |                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the third of three possible NTP servers.                                                                                                    |
| <b>Legal Values</b> | A string representing a valid NTP server. For example, ntp3.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed. |
| <b>Default</b>      | Null                                                                                                                                                  |

## cfgRhostsNtpMaxDist

 **NOTE:** This object is applicable only for CMC.


|                     |                                                                                |
|---------------------|--------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the NTP maximum distance parameter used to aid in NTP configuration. |
| <b>Legal Values</b> | 1 – 128                                                                        |
| <b>Default</b>      | 16                                                                             |

## cfgRhostsSyslogEnable (Read/Write)

|                     |                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables remote syslog to allow the RAC and SEL logs to be written to up to three remote syslog servers. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                               |
| <b>Default</b>      | 0                                                                                                                   |

## cfgRhostsSyslogPort (Read/Write)

|                     |                                                                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Remote syslog port number to use for writing the RAC and SEL logs to a remote syslog server.<br>For CMC, this setting takes effect only if the <code>cfgRhostsSyslogEnable</code> parameter is set to 1 (enabled). |
| <b>Legal Values</b> | 10 — 65535                                                                                                                                                                                                         |
| <b>Default</b>      | 514                                                                                                                                                                                                                |

 **NOTE:** For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.



### **cfgRhostsSyslogServer1 (Read/Write)**

|                     |                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the first of three possible remote syslog servers to store the RAC and SEL logs. This property is only valid if <b>cfgRhostsSyslogEnable</b> is set to 1 (enabled). |
| <b>Legal Values</b> | For iDRAC6: String from 0 to 511 characters.<br>For CMC: Valid hostname or IPv4 or IPv6 address.                                                                              |
| <b>Default</b>      | <blank>                                                                                                                                                                       |


### **cfgRhostsSyslogServer2 (Read/Write)**

|                     |                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the second of three possible remote syslog servers to store the RAC and SEL logs.. This property is only valid if <b>cfgRhostsSyslogEnable</b> is set to 1 (enabled). |
| <b>Legal Values</b> | For iDRAC6: String from 0 to 511 characters.<br>For CMC: Valid hostname or IPv4 or IPv6 address.                                                                                |
| <b>Default</b>      | <blank>                                                                                                                                                                         |


### **cfgRhostsSyslogServer3 (Read/Write)**

|                     |                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the third of three possible remote syslog servers to store the RAC and SEL logs. This property is only valid if <b>cfgRhostsSyslogEnable</b> is set to 1 (enabled). |
| <b>Legal Values</b> | For iDRAC6: String from 0 to 511 characters.<br>For CMC: Valid hostname or IPv4 or IPv6 address.                                                                              |
| <b>Default</b>      | <blank>                                                                                                                                                                       |


## cfgRhostsSyslogPowerLoggingEnabled

 **NOTE:** This object is applicable only for CMC.

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables power consumption logging to remote syslog servers. |
| <b>Legal Values</b> | 1 (enabled)<br>0 (disabled)                                             |
| <b>Default</b>      | 0                                                                       |

 **NOTE:** Remote syslog must be enabled and one or more remote syslog servers configured for power consumption to be logged.

## cfgRhostsSyslogPowerLoggingInterval

 **NOTE:** This object is applicable only for CMC.

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>Description</b>  | Specifies the power consumption collection/logging interval. |
| <b>Legal Values</b> | 1-1440 (minutes)                                             |
| <b>Default</b>      | 5                                                            |

### Example

```
racadm getconfig -g cfgRemoteHosts [-m server-<n>]
cfgRhostsFwUpdateTftpEnable=1
cfgRhostsFwUpdateIpAddr=0.0.0.0
cfgRhostsFwUpdatePath=
cfgRhostsSntpServerIpAddr=localhost.localdomain
cfgRhostsNtpEnable=0
cfgRhostsNtpServer1=
cfgRhostsNtpServer2=
cfgRhostsNtpServer3=
cfgRhostsNtpMaxDist=16
cfgRhostsSyslogEnable=0
cfgRhostsSyslogPort=514
cfgRhostsSyslogServer1=
cfgRhostsSyslogServer2=
```

```
cfgRhostsSyslogServer3=  
cfgRhostsSyslogPowerLoggingEnabled=1  
cfgRhostsSyslogPowerLoggingInterval=5
```

## cfgUserAdmin

This group provides configuration information about the users who are allowed to access iDRAC6 or CMC through the available remote interfaces.

Up to 16 instances of the user group are allowed. Each instance represents the configuration for an individual user.



**NOTE:** In the current CMC firmware version, the objects **cfgUserAdminEnable** and **cfgUserAdminPrivilege** are interrelated; changing the value of one property causes the value of the other property to change. For example, if a user does not have login privilege, the user is disabled by default. When you enable the user by changing the value of **UserAdminEnable** to 1, the right most digit of the **UserAdminPrivilege** also becomes 1. On the other hand, if you change the right most digit of the **UserAdminPrivilege** to 0, the value of **UserAdminEnable** becomes 0.



**NOTE:** Use this object with the **config** or **getconfig** subcommands. You must supply an index group number to use these commands as follows: **-i <index group>**



**NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.



**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provide information about the objects in the **cfgUserAdmin** group.

### cfgUserAdminIndex (Read Only)

|                     |                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | The unique index of a user.<br>For CMC, the index number is used to specify a unique group name. Only valid for indexed groups.                 |
| <b>Legal Values</b> | For iDRAC6: This parameter is populated based on the existing instances.<br>For CMC: The parameter is specified by a decimal integer from 1–16. |
| <b>Default</b>      | <index of the instance>                                                                                                                         |

## cfgUserAdminIpmiLanPrivilege (Read/Write)

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| <b>Description</b>  | The maximum privilege on the IPMI LAN channel.                  |
| <b>Legal Values</b> | 2 (User)<br>3 (Operator)<br>4 (Administrator)<br>15 (No access) |
| <b>Default</b>      | 4 (User 2)<br>15 (All others)                                   |

## cfgUserAdminPrivilege (Read/Write)

|                     |                                                                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | This property specifies the role-based authority privileges allowed for the user. The value is represented as a bit mask that allows for any combination of privilege values. Table 3-3 describes the user privilege bit values that can be combined to create bit masks. |
| <b>Legal Values</b> | For iDRAC6: 0x00000000 to 0x000001ff, and 0x0<br>For CMC: 0x00000000-0x0000fff, and 0x0                                                                                                                                                                                   |
| <b>Default</b>      | 0x00000000                                                                                                                                                                                                                                                                |

### Example

```
racadm getconfig -g cfgUserAdmin -i 1
# cfgUserAdminIndex=1
cfgUserAdminEnable=1
cfgUserAdminUserName=root
# cfgUserAdminPassword=***** (Write-Only)
cfgUserAdminPrivilege=0x00000fff
```

**Table 3-3. Bit Masks for User Privileges**

| iDRAC Specific User Privilege | Privilege Bit Mask |
|-------------------------------|--------------------|
| Login to iDRAC                | 0x00000001         |
| Configure iDRAC               | 0x00000002         |
| Configure Users               | 0x00000004         |

**Table 3-3. Bit Masks for User Privileges (continued)**

|                                     |            |
|-------------------------------------|------------|
| Clear Logs                          | 0x00000008 |
| Execute Server Control Commands     | 0x00000010 |
| Access Virtual Console              | 0x00000020 |
| Access Virtual Media                | 0x00000040 |
| Test Alerts                         | 0x00000080 |
| Execute Debug Commands              | 0x00000100 |
| <b>CMC Specific User Privelege</b>  |            |
| CMC Login User                      | 0x00000001 |
| Chassis Configuration Administrator | 0x00000002 |
| User Configuration Administrator    | 0x00000004 |
| Clear Logs Administrator            | 0x00000008 |
| Chassis Control Administrator       | 0x00000010 |
| Super User                          | 0x00000020 |
| Server Administrator                | 0x00000040 |
| Test Alert User                     | 0x00000080 |
| Debug Command Administrator         | 0x00000100 |
| Fabric A Administrator              | 0x00000200 |
| Fabric B Administrator              | 0x00000400 |
| Fabric C Administrator              | 0x00000800 |

## Examples

Table 3-4 provides sample privilege bit masks for users with one or more privileges.

**Table 3-4. Sample Bit Masks for User Privileges**

| User Privilege(s)                                                                                   | Privilege Bit Mask                                |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------|
| The user is not allowed to access iDRAC or CMC.                                                     | 0x00000000                                        |
| The user may only login to iDRAC or CMC and view iDRAC or CMC and server configuration information. | 0x00000001                                        |
| The user may login to iDRAC or CMC and change configuration.                                        | 0x00000001 + 0x00000002 = 0x00000003              |
| The user may login to iDRAC, access Virtual Media, and access Virtual Console.                      | 0x00000001 + 0x00000040 + 0x00000080 = 0x000000C1 |

## cfgUserAdminUserName (Read/Write)

**Description** The name of the user for this index. The user index is created by writing a string into this name field if the index is empty. Writing a string of double quotes ("") deletes the user at that index. You cannot change the name. You must delete and then recreate the name. The string cannot contain / (forward slash), \ (backslash), . (period), @ (at symbol) or quotation marks.

**NOTE:** This property value must be unique among user names.

**Legal Values** A string of up to 16 ASCII characters.

**Default** root (User 2)  
<blank> (All others)

## cfgUserAdminPassword (Write Only)

|                     |                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | The password for this user. User passwords are encrypted and cannot be seen or displayed after the property is written. |
| <b>Legal Values</b> | A string of up to 20 ASCII characters.                                                                                  |
| <b>Default</b>      | *****                                                                                                                   |

## cfgUserAdminEnable (Read/Write)

|                     |                                                      |
|---------------------|------------------------------------------------------|
| <b>Description</b>  | Enables or disables an individual user.              |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                |
| <b>Default</b>      | For iDRAC6: 1 (User 2), 0 (All others)<br>For CMC: 0 |

## cfgUserAdminSolEnable (Read/Write)

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables Serial Over LAN (SOL) user access for the user. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                               |
| <b>Default</b>      | 0                                                                   |

## cfgUserAdminIpmiSerialPrivilege (Read/Write)



**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| <b>Description</b>  | The maximum privilege on the IPMI LAN channel.                  |
| <b>Legal Values</b> | 2 (User)<br>3 (Operator)<br>4 (Administrator)<br>15 (No access) |
| <b>Default</b>      | 4 (User 2)<br>15 (All others)                                   |

## cfgEmailAlert

This group contains parameters to configure iDRAC6 or CMC e-mail alerting capabilities. Up to four instances of this group are allowed.



**NOTE:** Use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privileges.



**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provides information about the objects in the **cfgEmailAlert** group.

### cfgEmailAlertIndex (Read Only)

|                     |                                        |
|---------------------|----------------------------------------|
| <b>Description</b>  | The unique index of an alert instance. |
| <b>Legal Values</b> | 1-4                                    |
| <b>Default</b>      | <instance>                             |

### cfgEmailAlertEnable (Read/Write)

|                     |                                         |
|---------------------|-----------------------------------------|
| <b>Description</b>  | Enables or disables the alert instance. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                   |
| <b>Default</b>      | 0                                       |

### cfgEmailAlertAddress (Read/Write)

|                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the destination email address for email alerts, for example, user1@company.com. |
| <b>Legal Values</b> | E-mail address format, with a maximum length of 64 ASCII characters.                      |
| <b>Default</b>      | <blank>                                                                                   |



## cfgEmailAlertCustomMsg (Read/Write)

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| <b>Description</b>  | Specifies a custom message that forms the subject of the alert. |
| <b>Legal Values</b> | A string of up to 32 characters                                 |
| <b>Default</b>      | <blank>                                                         |

## cfgEmailAlertEmailName



**NOTE:** This object property is specific to CMC.

|                     |                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies name or other identifier associated with the destination e-mail address. The e-mail name can refer to an individual, group, location, department, etc. |
| <b>Legal Values</b> | A string of up to 32 characters                                                                                                                                  |
| <b>Default</b>      | <blank>                                                                                                                                                          |

### Example

```
racadm getconfig -g cfgEmailAlert -i 2
# cfgEmailAlertIndex=1
cfgEmailAlertEnable=1
cfgEmailAlertAddress=kfulton@dell.com
cfgEmailAlertName=Kevin Fulton
```

## cfgSessionManagement

This group contains parameters to configure the number of sessions that can connect to iDRAC6. One instance of the group is allowed. Displays current settings for and configures idle timeout properties for Web server, Telnet, SSH, and RACADM sessions. Changes to idle timeout settings take effect at the next login. To disable idle timeout for a connection, set this property to 0. Use the -m option to apply this setting to iDRAC.

The following sections provides information about the objects in the `cfgSessionManagement` group.

## cfgSsnMgtRacadmTimeout (Read/Write)



**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

**Description** Defines the idle timeout in seconds for the Remote RACADM interface. If a remote RACADM session remains inactive for more than the specified sessions, the session closes.

**Legal Values** 10 –1920

**Default** 60

### Example

```
racadm getconfig -g cfgSessionManagement [-m server-  
<n>] -o <object name> <object value>  
cfgSsnMgtWebserverTimeout=0  
cfgSsnMgtTelnetIdleTimeout=0  
cfgSsnMgtSshIdleTimeout=300  
cfgSsnMgtRacadmTimeout=0
```

## cfgSsnMgtConsRedirMaxSessions (Read/Write)



**NOTE:** This object is applicable only for iDRAC6.

**Description** Specifies the maximum number of Virtual Console sessions allowed on iDRAC6.

**Legal Values** For iDRAC6 on Rack and Tower Servers: 1 – 4.  
For iDRAC6 Enterprise on Blade Servers: 1-2

**Default** For iDRAC6 on Rack and Tower Servers: 4  
For iDRAC6 Enterprise on Blade Servers: 2

## cfgSsnMgtWebserverTimeout (Read/Write)

**Description** Defines the Web server timeout. This property sets the amount of time in seconds that a connection is allowed to remain idle (there is no user input). The session is cancelled if the time limit set by this property is reached. Changes to this setting do not affect the current session; you must log out and log in again to make the new settings effective.

An expired Web server session logs out the current session.

**Legal Values** 60 – 10800

**Default** 1800

## cfgSsnMgtSshIdleTimeout (Read/Write)

**Description** Defines the secure shell idle timeout. This property sets the amount of time in seconds that a connection is allowed to remain idle (there is no user input). The session is cancelled if the time limit set by this property is reached. Changes to this setting do not affect the current session; you must log out and log in again to make the new settings effective.

An expired secure shell session displays the following error message:

- In case of iDRAC6 on Rack and Tower Servers:

Connection timed out

- In case of iDRAC6 Enterprise on Blade Servers:

Session timed out. Closing the session...

After the message is displayed, the system returns you to the shell that generated the Secure Shell session.

**Legal Values** 0 (No timeout)

0 – 10800

**Default** For iDRAC6 on Rack and Tower Servers: 300

For iDRAC6 Enterprise on Blade Servers and CMC: 1800



**NOTE:** If 0 (no timeout), the network connection does not send keep alive packets to probe the client. Otherwise, keep alive packets are sent to guarantee that the client is responding.

## cfgSsnMgtTelnetIdleTimeout (Read/Write)

**Description** Defines the Telnet idle timeout. This property sets the amount of time in seconds that a connection is allowed to remain idle (there is no user input). The session is cancelled if the time limit set by this property is reached. Changes to this setting do not affect the current session (you must log out and log in again to make the new settings effective).

An expired Telnet session displays the following error message:

- In case of iDRAC6 on Rack and Tower Servers:  
Connection timed out
- In case of iDRAC6 Enterprise on Blade Servers:  
Session timed out. Closing the session...

After the message is displayed, the system returns you to the shell that generated the Telnet session.

**Legal Values** 0 (No timeout)  
0– 10800  
For CMC: 60 – 10800

**Default** For iDRAC6 on Rack and Tower Servers: 300  
For iDRAC6 Enterprise on Blade Servers and CMC: 1800



**NOTE:** If 0 (no timeout), the network connection does not send keep alive packets to probe the client. Otherwise, keep alive packets are sent to guarantee that the client is responding.

# cfgSerial

This group contains configuration parameters for iDRAC6 or CMC services. One instance of the group is allowed.



**NOTE:** Use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

The following sections provides information about the objects in the **cfgSerial** group.



**NOTE:** The **cfgSerial** object group is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

## cfgSerialBaudRate (Read/Write)

|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Sets the baud rate on iDRAC6 or CMC serial port.                                                        |
| <b>Legal Values</b> | For iDRAC6: 9600, 28800, 57600, 115200<br>For CMC: 2400, 4800, 9600, 19200, 28800, 38400, 57600, 115200 |
| <b>Default</b>      | For iDRAC6: 57600<br>For CMC: 115200                                                                    |

## cfgSerialConsoleEnable (Read/Write)

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the RAC or CMC serial console interface. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                        |
| <b>Default</b>      | For iDRAC6: 0<br>For CMC: 1                                  |

## cfgSerialConsoleQuitKey (Read/Write)

### Default

For iDRAC6:

This key or key combination terminates Virtual Console text for iDRAC when using the `console com2` command.

The `cfgSerialConsoleQuitKey` value can be represented by one of the following:

- Decimal value — For example, 95
- Hexadecimal value — For example, 0x12
- Octal value — For example, 007
- ASCII value — For example, ^ a

ASCII values may be represented using the following Escape Key codes:

- ^ followed by any alphabetic (a-z, A-Z)
- ^ followed by the listed special characters: [ ] \ ^ \_

For CMC:

This key specifies the character that aborts the serial text console connect (or `racadm connect`) command.

**NOTE:** The CTRL key is represented by using the ^ (carat) character.

**NOTE:** The CTRL key does not generate a character by itself, but must be struck simultaneously with another key to generate a character.

For example, striking both the CTRL key and the \ key simultaneously (rather than sequentially) is denoted as ^\.

Configuration options: The value must start with the ^ character, and be followed by one of the characters:

- a-z
- A-Z
- [
- ]
- \

### Legal value:

String of up to 4 characters

**Default:** For iDRAC: <Ctrl><\>  
For CMC: ^\

**NOTE:** For information on using RACADM commands for special characters, see "Guidelines to Quote Strings Containing Special Characters When Using RACADM Commands" on page 31.

### **cfgSerialConsoleIdleTimeout (Read/Write)**

**Description** The maximum number of seconds to wait before an idle serial session is disconnected.

**Legal Values** 0 = No timeout  
60 – 1920

**Default** For iDRAC6: 300  
For CMC: 1800

### **cfgSerialConsoleNoAuth (Read/Write)**

**Description** Enables or disables the RAC or CMC serial console login authentication.

**Legal Values** 0 (enables serial login authentication)  
1 (disables serial login authentication)

**Default** 0


### **cfgSerialConsoleCommand (Read/Write)**

**Description** Specifies a serial command that is executed after a user logs into the serial console interface.

**Legal Values** For iDRAC6: A string of up to 128 characters.  
For CMC: A string representing a valid serial command. For example, connect server-1.

**Default** <blank>


## cfgSerialConsoleColumns


 **NOTE:** This object property is applicable only for CMC.


**Description** Specifies the number of columns in the terminal window command line connected to the serial port.

**Legal Values** 0 – 256

**Default** 0 (equivalent to 80)

 **NOTE:** The prompt counts as two characters.

 **NOTE:** The terminal emulator must be configured with the line wrap mode ON, if a terminal emulator is used.

 **NOTE:** You must log out, then log in again for the changes to take effect.

## cfgSerialHistorySize (Read/Write)

**Description** Specifies the maximum size of the serial history buffer.

**Legal Values** 0 – 8192

**Default** 8192

## cfgSerialCom2RedirEnable (Read/Write)

**Description** Enables or disables the console for COM 2 port redirection.

**Legal Values** 1 (TRUE)

0 (FALSE)

**Default** 1

## cfgSerialSshEnable (Read/Write)

**Description** Enables or disables the secure shell (SSH) interface on iDRAC6 or CMC.

**Legal Values** 1 (TRUE)

0 (FALSE)

**Default** 1



## Example

```
racadm getconfig -g cfgSerial

cfgSerialBaudRate=115200
cfgSerialConsoleEnable=1
cfgSerialConsoleQuitKey=^\
cfgSerialConsoleIdleTimeout=1800
cfgSerialConsoleNoAuth=0
cfgSerialConsoleCommand=
cfgSerialConsoleColumns=0
cfgSerialHistorySize=8192
cfgSerialTelnetEnable=0
cfgSerialSshEnable=1
```

## cfgSerialTelnetEnable (Read/Write)

|                     |                                                                    |
|---------------------|--------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the Telnet console interface on iDRAC6 or CMC. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                              |
| <b>Default</b>      | 0                                                                  |

## cfgOobSnmpp

This group contains parameters to configure the SNMP agent and trap capabilities of iDRAC6 or CMC. One instance of the group is allowed.

The CMC SNMP agent supports the standard RFC1213 mib-2, and the Dell enterprise-specific MIB.



**NOTE:** For CMC, use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.



**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provides information about the objects in the **cfgOobSnmpp** group.

## cfgOobSnmAgentCommunity (Read/Write)

**Description** Specifies the SNMP Community Name (identical to community string) used for SNMP traps. The community string acts as a password shared between different hosts over the network. This community string value must match with that of the other hosts for any kind of communication through SNMP.

**Legal Values** A string of up to 31 characters.

**Default** public

### Example

```
racadm getconfig -g cfgOobSnmAgentCommunity
cfgOobSnmAgentCommunity=public
```


## cfgOobSnmAgentEnable (Read/Write)


**Description** Enables or disables the SNMP agent in iDRAC6 or CMC.


**Legal Values** 1 (TRUE)  
0 (FALSE)

**Default** 0

## cfgTraps

 **NOTE:** This object property is applicable only to CMC. Use this object with the **config** or **getconfig** subcommands.

 **NOTE:** To use this object property, you must have **Chassis Configuration Administrator** privilege.

 **NOTE:** You can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

### Description

Displays information for and configures delivery of SNMP traps for a specific user.

## cfgTrapsIndex (Read Only)

Indicates the unique index of an alert instance.

## cfgTrapsEnable

|                     |                                             |
|---------------------|---------------------------------------------|
| <b>Description</b>  | Enables or disables event traps on the CMC. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                       |
| <b>Default</b>      | None                                        |

## cfgTrapsAlertDestIpAddr

|                     |                                                                      |
|---------------------|----------------------------------------------------------------------|
| <b>Description</b>  | Sets the IP address that receives the alert.                         |
| <b>Legal Values</b> | A string representing a valid IP address. For example, 192.168.0.20. |
| <b>Default</b>      | None                                                                 |

Sets the IP address that receives the alert.

**Configuration options:** A string representing a valid IP address. For example, 192.168.0.20.

## cfgTrapsCommunityName




|                     |                                                                                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Sets the community string (identical to the community name) used for authentication. The community string acts as a password shared between different hosts over the network. This community string value must match with that of the other hosts for any kind of communication through SNMP. |
| <b>Legal Values</b> | A string representing the community name.                                                                                                                                                                                                                                                     |
| <b>Default</b>      | None                                                                                                                                                                                                                                                                                          |

### Example

```
racadm getconfig -g cfgTraps -i 2

# cfgTrapsIndex=2
cfgTrapsEnable=1
cfgTrapsAlertDestIpAddr=
cfgTrapsCommunityName=public
```

## cfgRacTuning


-  **NOTE:** Use this object with the **config** or **getconfig** subcommands.
-  **NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.
-  **NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

Use the **-m** option to apply this setting to iDRAC.

This group is used to configure various iDRAC6 or CMC configuration properties, such as valid ports and security port restrictions.

The following sections provides information about the objects in the **cfgRacTuning** group.

### cfgRacTuneConRedirPort (Read/Write)


-  **NOTE:** This object is applicable only to iDRAC6.

|                     |                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the port to be used for keyboard, mouse, video, and Virtual Media traffic to iDRAC6. |
| <b>Legal Values</b> | 1 – 65535                                                                                      |
| <b>Default</b>      | 5900                                                                                           |

### **cfgRacTuneRemoteRacadmEnable (Read/Write)**

|                     |                                                                  |
|---------------------|------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the Remote RACADM interface in iDRAC or CMC. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                            |
| <b>Default</b>      | 1                                                                |


### **cfgRacTuneCtrlEConfigDisable**

 **NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

|                     |                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the ability to disable the ability of the local user to configure iDRAC from the BIOS POST option-ROM. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                      |
| <b>Default</b>      | 0                                                                                                                          |


### **cfgRacTuneHttpPort (Read/Write)**

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the port number to use for HTTP network communication with iDRAC6 or CMC. |
| <b>Legal Values</b> | 10 – 65535                                                                          |
| <b>Default</b>      | 80                                                                                  |

 **NOTE:** For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.

## cfgRacTuneHttpsPort (Read/Write)

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the port number to use for HTTPS network communication with iDRAC6 or CMC. |
| <b>Legal Values</b> | 10 – 65535                                                                           |
| <b>Default</b>      | 443                                                                                  |

 **NOTE:** For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.

## cfgRacTuneIpRangeEnable (Read/Write)

|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the IPv4 Address Range validation feature of iDRAC6 or CMC. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                           |
| <b>Default</b>      | 0                                                                               |

## cfgRacTuneIpRangeAddr (Read/Write)

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | <p>Specifies the acceptable IPv4 address bit pattern in positions determined by the "1"s in the range mask property (cfgRacTuneIpRangeMask).</p> <p>For CMC, a login from the incoming IP address is allowed only if the following are identical:</p> <ul style="list-style-type: none"><li>• cfgRacTuneIpRangeMask bit-wise and with incoming IP address</li><li>• cfgRacTuneIpRanbeMask bit-wise and with<br/>cfgRacTuneIpRangeAddr</li></ul> |
| <b>Legal Values</b> | An IPv4 address formatted string, for example, 192.168.0.44.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Default</b>      | 192.168.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## **cfgRacTuneIpRangeMask (Read/Write)**

|                     |                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Standard IP mask values with left-justified bits. For example, 255.255.255.0.<br><br>For CMC, a login from the incoming IP address is allowed only if both of the following are identical: <ul style="list-style-type: none"><li>• cfgRacTuneIpRangeMask bit-wise and with incoming IP address</li><li>• cfgRacTuneIpRanbeMask bit-wise and with cfgRacTuneIpRangeAddr</li></ul> |
| <b>Legal Values</b> | An IPv4 address formatted string, for example, 255 . 255 . 255 . 0.<br>Standard IP mask values with left-justified bits.                                                                                                                                                                                                                                                         |
| <b>Default</b>      | 255.255.255.0                                                                                                                                                                                                                                                                                                                                                                    |

## **cfgRacTuneIpBlkEnable (Read/Write)**

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the IPv4 address blocking feature of iDRAC6 or CMC. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                   |
| <b>Default</b>      | 0                                                                       |

## **cfgRacTuneIpBlkFailCount (Read/Write)**

|                     |                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | The maximum number of login failures to occur within the window (cfgRacTuneIpBlkFailWindow) before login attempts from the IP address are rejected. |
| <b>Legal Values</b> | 2 – 16                                                                                                                                              |
| <b>Default</b>      | 5                                                                                                                                                   |

### **cfgRacTuneIpBlkFailWindow (Read/Write)**

|                     |                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Defines the time span in seconds that the failed attempts are counted. When failure attempts age beyond this limit, they are dropped from the count. |
| <b>Legal Values</b> | For iDRAC6: 10 – 655356<br>For CMC: 2 – 655356                                                                                                       |
| <b>Default</b>      | 60                                                                                                                                                   |

### **cfgRacTuneIpBlkPenaltyTime (Read/Write)**

|                     |                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Defines the time span in seconds that session requests from an IP address with excessive failures are rejected. |
| <b>Legal Values</b> | For iDRAC6: 10 – 655356<br>For CMC: 2 – 655356                                                                  |
| <b>Default</b>      | 300                                                                                                             |

### **cfgRacTuneSshPort (Read/Write)**

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| <b>Description</b>  | Specifies the port number used for iDRAC6 or CMC SSH interface. |
| <b>Legal Values</b> | For iDRAC6: 1 – 65535<br>For CMC: 10 – 65535                    |
| <b>Default</b>      | 22                                                              |

### **cfgRacTuneTelnetPort (Read/Write)**

|                     |                                                                    |
|---------------------|--------------------------------------------------------------------|
| <b>Description</b>  | Specifies the port number used for iDRAC6 or CMC Telnet interface. |
| <b>Legal Values</b> | For iDRAC6: 1 – 65535<br>For CMC: 10 – 65535                       |
| <b>Default</b>      | 23                                                                 |



**NOTE:** For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.



### **cfgRacTuneConRedirEnable (Read/Write)**



**NOTE:** This object property is applicable only to iDRAC6.

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Description</b>  | Enables or disables Virtual Console. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                |
| <b>Default</b>      | 1                                    |

### **cfgRacTuneConRedirEncryptEnable (Read/Write)**



**NOTE:** This object property is applicable only to iDRAC6.

|                     |                                                  |
|---------------------|--------------------------------------------------|
| <b>Description</b>  | Encrypts the video in a Virtual Console session. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                            |
| <b>Default</b>      | 1                                                |

### **cfgRacTuneAsrEnable (Read/Write)**



**NOTE:** This object property is applicable only to iDRAC6.



**NOTE:** This object requires an iDRAC6 reset before it becomes active.

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| <b>Description</b>  | Enables or disables iDRAC6 last crash screen capture feature. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                         |
| <b>Default</b>      | 0                                                             |

### **cfgRacTuneDaylightOffset (Read/Write)**

|                     |                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the daylight savings offset (in minutes) to use for the RAC Time. This value is 0 if the time zone is not a Daylight Saving time zone. |
| <b>Legal Values</b> | 0 – 60                                                                                                                                           |
| <b>Default</b>      | 0                                                                                                                                                |

## Example

```
racadm getconfig -g cfgRacTuning [-m server-<n>] -o  
<object name> <object value>
```

```
cfgRacTuneRemoteRacadmEnable=1  
cfgRacTuneWebserverEnable=1  
cfgRacTuneHttpPort=80  
cfgRacTuneHttpsPort=443  
cfgRacTuneTelnetPort=23  
cfgRacTuneSshPort=22  
cfgRacTuneIpRangeEnable=0  
cfgRacTuneIpRangeAddr=192.168.1.1  
cfgRacTuneIpRangeMask=255.255.255.0  
cfgRacTuneIpBlkEnable=0  
cfgRacTuneIpBlkFailCount=5  
cfgRacTuneIpBlkFailWindow=60  
cfgRacTuneIpBlkPenaltyTime=300  
# cfgRacTuneTimezoneOffset=-18000  
# cfgRacTuneDaylightOffset=3600
```

## cfgRacTuneTimezoneOffset (Read/Write)

**Description** Specifies the time zone offset (in minutes) from Greenwich Mean Time (GMT)/Coordinated Universal Time (UTC) to use for the RAC Time. Some common time zone offsets for time zones in the United States are:

- -480 (PST—Pacific Standard Time)
- -420 (MST—Mountain Standard Time)
- -360 (CST—Central Standard Time)
- -300 (EST—Eastern Standard Time)

For CMC: This object property is read only. Specifies the difference in number of seconds, from the (UTC)/ (GMT). This value is negative if the current time zone is west of Greenwich.

**Legal Values** -720 – 7800

**Default** 0

## cfgRacTuneLocalServerVideo (Read/Write)



This object property is applicable only to iDRAC6.

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| <b>Description</b>  | Enables (switches on) or disables (switches off) the local server video. |
| <b>Legal Values</b> | 1 (TRUE - Enables)<br>0 (FALSE- Disables)                                |
| <b>Default</b>      | 1                                                                        |

## cfgRacTuneLocalConfigDisable (Read/Write)



**NOTE:** This object property is applicable only to iDRAC6.

|                     |                                                                                                                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Disables write access to iDRAC6 configuration data by setting to 1.<br><b>NOTE:</b> Access can be disabled using the local RACADM or iDRAC6 Web interface; however, once disabled, access can be re-enabled only through iDRAC6 Web interface. |
| <b>Legal Values</b> | 0 (TRUE-Enables)<br>1 (FALSE-Disables)                                                                                                                                                                                                         |
| <b>Default</b>      | 0                                                                                                                                                                                                                                              |

## cfgRacTuneWebserverEnable (Read/Write)

|                     |                                                                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables iDRAC6 or CMC web server. If this property is disabled, iDRAC6 or CMC is not accessible using client web browsers. This property has no effect on the Telnet/SSH or RACADM interfaces. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                                      |
| <b>Default</b>      | 1                                                                                                                                                                                                          |

## cfgRacTuneVirtualConsoleAuthorizeMultipleSessions (Read/Write)



**NOTE:** This object property is applicable only to iDRAC6.



**NOTE:** To modify this property, you must have **Configure iDRAC** permission. This object can be used only with remote or firmware (SSH or Telnet) RACADM and not with local RACADM or with earlier DRAC products.




**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

**Description** If a first user is already using the Virtual Console, the value of this object effects the privileges granted to the subsequent user's shared request after the timeout of 30 seconds.

**Legal Values** 0 (If the user of the first session has not responded for session sharing request by subsequent user, the next session user gets an access denied error after the default timeout value of 30 seconds.)  
1 (If the user of the first session has not responded for session sharing request by subsequent user, the next session user gets a read only access after the default timeout value of 30 seconds.)  
2 (If the user of the first session has not responded for session sharing request by subsequent user, the next session user gets administrator access after default timeout value of 30 seconds.)

**Default** 0

## ifcRacManagedNodeOs

 **NOTE:** This object is applicable only to iDRAC6.

This group contains properties that describe the managed server operating system. One instance of the group is allowed.

The following sections provides information about the objects in the ifcRacManagedNodeOs group.

### ifcRacMnOsHostname (Read Only)

**Description** The host name of the managed server.

**Legal Values** A string of up to 255 characters.

**Default** <blank>


### ifcRacMnOsOsName (Read Only)


**Description** The operating system name of the managed server.

**Legal Values** A string of up to 255 characters.

**Default** <blank>

## cfgRacSecurity

 **NOTE:** Use this object with the **config** or **getconfig** subcommands.

 **NOTE:** To use this object property, you must have **Chassis Configuration Administrator** privilege.

This group is used to configure settings related to iDRAC6 or CMC SSL certificate signing request (CSR) feature. The properties in this group must be configured before generating a CSR from iDRAC6 or CMC.

For more information on generating certificate signing requests, see the subcommand "sslcsrgen" on page 119.

The following sections provides information about the objects in the cfgRacSecurity group.

### **cfgRacSecCsrCommonName (Read/Write)**

|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the CSR Common Name (CN) that must be an IP or iDRAC or CMC name as given in the certificate. |
| <b>Legal Values</b> | A string of up to 254 characters.                                                                       |
| <b>Default</b>      | <blank>                                                                                                 |

### **cfgRacSecCsrOrganizationName (Read/Write)**

|                     |                                          |
|---------------------|------------------------------------------|
| <b>Description</b>  | Specifies the CSR Organization Name (O). |
| <b>Legal Values</b> | A string of up to 254 characters.        |
| <b>Default</b>      | <blank>                                  |

### **cfgRacSecCsrOrganizationUnit (Read/Write)**

|                     |                                           |
|---------------------|-------------------------------------------|
| <b>Description</b>  | Specifies the CSR Organization Unit (OU). |
| <b>Legal Values</b> | A string of up to 254 characters.         |
| <b>Default</b>      | <blank>                                   |

### **cfgRacSecCsrLocalityName (Read/Write)**

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Description</b>  | Specifies the CSR Loyalty (L).    |
| <b>Legal Values</b> | A string of up to 254 characters. |
| <b>Default</b>      | <blank>                           |

### **cfgRacSecCsrStateName (Read/Write)**

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Description</b>  | Specifies the CSR State Name (S). |
| <b>Legal Values</b> | A string of up to 254 characters. |
| <b>Default</b>      | <blank>                           |

## **cfgRacSecCsrCountryCode (Read/Write)**

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Description</b>  | Specifies the CSR Country Code (CC). |
| <b>Legal Values</b> | A string of up to 2 characters.      |
| <b>Default</b>      | <blank>                              |

## **cfgRacSecCsrEmailAddr (Read/Write)**

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Description</b>  | Specifies the CSR email address.  |
| <b>Legal Values</b> | A string of up to 254 characters. |
| <b>Default</b>      | <blank>                           |


### **Example**

```
racadm config -g cfgRacSecurity  
cfgRacSecCsrKeySize=1024  
cfgRacSecCommonName=  
cfgRacSecOrganizationName=  
cfgRacSecOrganizationUnit=  
cfgRacSecLocalityName=  
cfgRacSecStateName=  
cfgRacSecCountryCode=  
cfgRacSecEmailAddr=
```

## **cfgRacSecCsrKeySize (Read/Write)**

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Description</b>  | Specifies the SSL asymmetric key size for the CSRs. |
| <b>Legal Values</b> | For iDRAC6: 1024, 2048<br>For CMC: 512, 1024, 2048  |
| <b>Default</b>      | 1024                                                |

# cfgRacVirtual

 **NOTE:** This object is applicable only to iDRAC6.

This group contains parameters to configure the iDRAC6 Virtual Media feature. One instance of the group is allowed.

The following sections provides information about the objects in the cfgRacVirtual group.

## cfgRacVirMediaAttached (Read/Write)

**Description** This object is used to attach virtual devices to the system via the USB bus. When the devices are attached the server recognizes valid USB mass storage devices attached to the system. This is equivalent to attaching a local USB CDROM/floppy drive to a USB port on the system. When the devices are attached they can be connected to the virtual devices remotely using iDRAC6 Web interface or the CLI. Setting this object to 0 causes the devices to detach from the USB bus.

**Legal Values** 0 = Detach  
1 = Attach  
2 = Auto-Attach

**Default** 0

## cfgVirMediaBootOnce (Read/Write)

**Description** Enables or disables the Virtual Media Boot Once feature of iDRAC6.

If this property is enabled when the host server is rebooted, this feature attempts to boot from the virtual media devices—if the appropriate media is installed in the device.

**Legal Values** 1 (TRUE)  
0 (FALSE)

**Default** 0



## cfgVirtualFloppyEmulation (Read/Write)



**NOTE:** Virtual Media has to be reattached (using **cfgRacVirMediaAttached**) for this change to take effect.

|                     |                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | When set to 0, the virtual floppy drive is recognized as a removable disk by Windows operating systems. Windows operating systems assigns a drive letter that is C: or higher during enumeration. When set to 1, the Virtual Floppy drive is seen as a floppy drive by Windows operating systems. Windows operating systems assigns a drive letter of A: or B:. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                                                                                                                                                                                           |
| <b>Default</b>      | 0                                                                                                                                                                                                                                                                                                                                                               |

## cfgVirMediaKeyEnable (Read/Write)

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the Virtual Media key feature of the RAC.<br><b>NOTE:</b> This command is deprecated from 1.5 and 3.0 releases onwards. The functionality of this command is now covered by <code>cfgVFlashSDEnable</code> . While execution of the <code>cfgVirMediaKeyEnable</code> command is successful, it is recommended to use the <code>cfgVFlashSDEnable</code> command. For more information, see " <code>cfgVFlashSDEnable (Read/Write)</code> " on page 262. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Default</b>      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## cfgSDWriteProtect (Read only)

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays if the physical write protect latch on the SD card is enabled or disabled.<br><br><b>NOTE:</b> This command is deprecated from 1.5 and 3.0 releases onwards. The functionality of this command is now covered by <code>cfgVFlashSDWriteProtect</code> . While execution of the <code>cfgSDWriteProtect</code> command is successful, it is recommended to use the <code>cfgVFlashSDWriteProtect</code> command. For more information, see "cfgVFlashSDWriteProtect (Read Only)" on page 264. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Default</b>      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## cfgLCDriveEnable (Read/Write)

|                     |                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enable/disable the USC-LCE device from showing up in the operating system. It must be disabled in ESXi operating system. Allows proper operation of operating system and drivers interfacing with the iDRAC/USC-LCE USB devices. |
| <b>Legal Values</b> | 1 (Enabled)<br>0 (Disabled)                                                                                                                                                                                                      |
| <b>Default</b>      | 1                                                                                                                                                                                                                                |

## cfgServerInfo

This group allows you to select the BIOS first boot device and to boot the selected device only once.


For CMC, this group allows you to displays information for and configure a server in the chassis.



**NOTE:** Use this object with the `config` or `getconfig` subcommands.




**NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

 **NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option


The following sections provides information about the objects in the `cfgServerInfo` group.

### **cfgServerInfoIndex (Read only)**

 **NOTE:** This object is applicable only to CMC.


|                     |                                        |
|---------------------|----------------------------------------|
| <b>Description</b>  | Displays the index name of the server. |
| <b>Legal Values</b> | None                                   |
| <b>Default</b>      | None                                   |

### **cfgServerSlotNumber (Read only)**

 **NOTE:** This object is applicable only to CMC.


|                     |                                                                       |
|---------------------|-----------------------------------------------------------------------|
| <b>Description</b>  | Specifies the location of the specified server (1–16) in the chassis. |
| <b>Legal Values</b> | None                                                                  |
| <b>Default</b>      | None                                                                  |

### **cfgServerServiceTag (Read only)**

 **NOTE:** This object is applicable only to CMC.


|                     |                                                   |
|---------------------|---------------------------------------------------|
| <b>Description</b>  | Displays the service tag of the specified server. |
| <b>Legal Values</b> | None                                              |
| <b>Default</b>      | None                                              |

## cfgServerName (Read only)

 **NOTE:** This object is applicable only to CMC.


|                     |                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays the name of the specified server.                                                                                                                                                              |
| <b>Legal Values</b> | Maximum of 15 non-extended ASCII characters, (ASCII codes 32 through 126). For more information, see "Guidelines to Quote Strings Containing Special Characters When Using RACADM Commands" on page 17. |
| <b>Default</b>      | SLOT-<slot number>                                                                                                                                                                                      |

## cfgServerFW (Read only)

 **NOTE:** This object is applicable only to CMC.


|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| <b>Description</b>  | Displays the server's iDRAC management firmware revision. |
| <b>Legal Values</b> | None                                                      |
| <b>Default</b>      | None                                                      |

## cfgServerBIOS (Read only)

 **NOTE:** This object is applicable only to CMC.

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Description</b>  | Displays the server's BIOS revision. |
| <b>Legal Values</b> | None                                 |
| <b>Default</b>      | None                                 |

## cfgServerBmcMacAddress (Read only)

 **NOTE:** This object is applicable only to CMC.

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| <b>Description</b>  | Displays the BMC MAC address of the specified server. |
| <b>Legal Values</b> | None                                                  |
| <b>Default</b>      | None                                                  |

### **cfgServerNic1MacAddress (Read only)**



**NOTE:** This object is applicable only to CMC.

|                     |                                               |
|---------------------|-----------------------------------------------|
| <b>Description</b>  | Displays the MAC address of the server NIC 1. |
| <b>Legal Values</b> | None                                          |
| <b>Default</b>      | None                                          |

### **cfgServerNic2MacAddress (Read only)**



**NOTE:** This object is applicable only to CMC.

|                     |                                               |
|---------------------|-----------------------------------------------|
| <b>Description</b>  | Displays the MAC address of the server NIC 2. |
| <b>Legal Values</b> | None                                          |
| <b>Default</b>      | None                                          |

### **cfgServerNic3MacAddress (Read only)**



**NOTE:** This object is applicable only to CMC.

|                     |                                               |
|---------------------|-----------------------------------------------|
| <b>Description</b>  | Displays the MAC address of the server NIC 3. |
| <b>Legal Values</b> | None                                          |
| <b>Default</b>      | None                                          |

### **cfgServerNic4MacAddress (Read only)**




**NOTE:** This object is applicable only to CMC.

|                     |                                               |
|---------------------|-----------------------------------------------|
| <b>Description</b>  | Displays the MAC address of the server NIC 4. |
| <b>Legal Values</b> | None                                          |
| <b>Default</b>      | None                                          |

Read only. Displays the MAC address of the server NIC 4.

### cfgServerPriority (Read only)


 **NOTE:** This object is applicable only to CMC.

**Description** Sets the priority level allotted to the server in the chassis for power budgeting purposes.

**Legal Values** 1–9 in descending priority, where 1 holds the highest priority

**Default** 1

### cfgServerNicEnable (Read only)


 **NOTE:** This object is applicable only to CMC.

**Description** Enables or disables LAN channel.

**Legal Values** 1 (enable)  
0 (disable)

**Default** None

### cfgServerIPMIOverLanEnable (Read only)

 **NOTE:** This object is applicable only to CMC.

**Description** Enables or disables IPMI LAN channel.

**Legal Values** 1 (enable)  
0 (disable)

**Default** None

## cfgServerPowerBudgetAllocation (Read only)



**NOTE:** This object is applicable only to CMC.

**Description** Displays the current power allocation for the server.

**Legal Values** 1 (enable)  
0 (disable)

**Default** None

## cfgServerDNSRegisterIMC (Read only)



**NOTE:** This object is applicable only to CMC.

**Description** Enables or disables DNS name registration for the Integrated Management Controller (iDRAC).

**Legal Values** 1 (enable)  
0 (disable)

**Default** None

## cfgServerDNSIMCName (Read only)




**NOTE:** This object is applicable only to CMC.

**Description** Displays the DNS domain name for the integrated Remote Access Controller, iDRAC.

**Legal Values** None

**Default** None

## cfgServerRootPassword (Write only)


 **NOTE:** This object is applicable only to CMC.

**Description** Displays the password for iDRAC as a series of asterisks (\*). It cannot be seen or displayed after this property is written.

**Legal Values** None

**Default** None

## cfgServerFirstBootDevice (Read/Write)

 **NOTE:** For CMC, this object is Write only.

**Description** Sets or displays the first boot device.  
For iDRAC6, you can also set a vFlash partition that is attached as a bootable device. For more information, see "cfgVFlashPartitionOSVolLabel (ReadOnly)" on page 265.

**Legal Values** No-Override

PXE

HDD

DIAG

CD-DVD

BIOS

vFDD

VCD-DVD

iSCSI

VFLASH


FDD

SD

**Default** No-Override




## cfgServerBootOnce (Read/Write)


 **NOTE:** For CMC, this object is Write only.


|                     |                                                   |
|---------------------|---------------------------------------------------|
| <b>Description</b>  | Enables or disables the server boot once feature. |
| <b>Legal Values</b> | 1 = TRUE<br>0 = FALSE                             |
| <b>Default</b>      | 0                                                 |

## cfgActiveDirectory

This group contains parameters to configure iDRAC6 or CMC Active Directory feature.

 **NOTE:** Use this object with the **config** or **getconfig** subcommands.

 **NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

 **NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provides information about the objects in the **cfgActiveDirectory** group.


### cfgADracDomain (Read/Write)

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| <b>Description</b>  | Active Directory Domain in which iDRAC6 or CMC resides.                 |
| <b>Legal Values</b> | Any printable text string of up to 254 characters, with no white space. |
| <b>Default</b>      | <blank>                                                                 |

### cfgADracName (Read/Write)

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| <b>Description</b>  | Name of iDRAC6 or CMC as recorded in the Active Directory forest.       |
| <b>Legal Values</b> | Any printable text string of up to 254 characters, with no white space. |
| <b>Default</b>      | <blank>                                                                 |

## cfgADRootDomain


 **NOTE:** This object is applicable only to CMC.

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the root domain of the domain forest.                         |
| <b>Legal Values</b> | Any printable text string of up to 254 characters, with no white space. |
| <b>Default</b>      | <blank>                                                                 |

## cfgADEnable (Read/Write)

|                     |                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables Active Directory user authentication on iDRAC6 or CMC. If this property is disabled, only local iDRAC6 or CMC authentication is used for user logins. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                     |
| <b>Default</b>      | 0                                                                                                                                                                         |

## cfgADSCLEnable

 **NOTE:** This object is applicable only to CMC.

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| <b>Description</b>  | Enables you to log on to the CMC without enabling the Smart Card login |
| <b>Legal Values</b> | 1 (Enable)<br>0 (Disable)                                              |
| <b>Default</b>      | 0                                                                      |

## cfgADSSOEnable (Read/Write)

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables Active Directory single sign-on authentication on iDRAC6. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                         |
| <b>Default</b>      | 0                                                                             |

## cfgADDomainController



**NOTE:** This object is applicable only to CMC.

|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the LDAP server from which you want the CMC to obtain user names. Must be used with <b>cfgADSpecifyServerEnable</b> . |
| <b>Legal Values</b> | Valid IP address or fully qualified domain name (FQDN).                                                                         |
| <b>Default</b>      | None                                                                                                                            |

## cfgADDomainController1 (Read/Write)



**NOTE:** This object is applicable only to iDRAC6.

|                     |                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | iDRAC6 uses the value specified to search the LDAP server for user names.                                       |
| <b>Legal Values</b> | A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN). |
| <b>Default</b>      | None                                                                                                            |


## cfgADDomainController2 (Read/Write)



**NOTE:** This object is applicable only to iDRAC6.

|                     |                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | iDRAC6 uses the value specified to search the LDAP server for user names.                                       |
| <b>Legal Values</b> | A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN). |
| <b>Default</b>      | None                                                                                                            |

### cfgADDomainController3 (Read/Write)


 **NOTE:** This object is applicable only to iDRAC6.

**Description** iDRAC6 uses the value specified to search the LDAP server for user names.

**Legal Values** A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).

**Default** None

### cfgADAuthTimeout (Read/Write)

 **NOTE:** To modify this property, you must have **Configure iDRAC** permission.

**Description** Specifies the number of seconds to wait for Active Directory authentication requests to complete before timing out.

**Legal Values** 15 – 300 seconds

**Default** 120


### cfgADType (Read/Write)

**Description** Determines the schema type to use with Active Directory.

**Legal Values** 1 (Enables Active Directory with the extended schema)  
2 (Enables Active Directory with the standard schema)

**Default** 1

### cfgADSpecifyServerEnable

 **NOTE:** This object is applicable only to CMC.

**Description** Allows you to enable or disable and specify an LDAP server or a global catalog server. Use cfgADDomainController or cfgADGlobalCatalog to specify the IP address

**Legal Values** 1 (enabled)  
0 (disabled)

**Default** 0

## cfgADGlobalCatalog



**NOTE:** This object is applicable only to CMC.

|                     |                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the global catalog server from which you want the CMC to obtain user names. Must be used with <code>cfgADSpecifyServerEnable</code> . |
| <b>Legal Values</b> | Valid IP address or FQDN.                                                                                                                       |
| <b>Default</b>      | None                                                                                                                                            |

### Example

```
racadm getconfig -g cfgActiveDirectory  
  
cfgADEnable=1  
cfgADSCLEnable=0  
cfgADSSOEnable=0  
cfgADRacDomain=  
cfgADRootDomain=help  
cfgADRacName=  
cfgADRacAuthTimeout=300  
cfgADType=0x4  
cfgADSpecifyServerEnable=1  
cfgADDomainController=192.168.1.1  
cfgADGlobalCatalog=127.0.0.1
```


## cfgADGlobalCatalog1 (Read/Write)



**NOTE:** This object is applicable only to iDRAC6.

|                     |                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | iDRAC6 uses the value specified to search the Global Catalog server for user names.                             |
| <b>Legal Values</b> | A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN). |
| <b>Default</b>      | None                                                                                                            |

## cfgADGlobalCatalog2 (Read/Write)


 **NOTE:** This object is applicable only to iDRAC6.

**Description** iDRAC6 uses the value specified to search the Global Catalog server for user names.

**Legal Values** A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).

**Default** None

## cfgADGlobalCatalog3 (Read/Write)


 **NOTE:** This object is applicable only to iDRAC6.

**Description** iDRAC6 uses the value specified to search the Global Catalog server for user names.

**Legal Values** A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).

**Default** None

## cfgADCertValidationEnable (Read/Write)

 **NOTE:** This object is applicable only to iDRAC6.

**Description** Enables or disables Active Directory certificate validation as a part of the Active Directory configuration process.

**Legal Values** 1 (TRUE)  
0 (FALSE)

**Default** 1

## cfgADDcSRVLookupEnable (Read/Write)



**NOTE:** This object is applicable only to iDRAC6.

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Configures iDRAC6 to use pre-configured domain controllers or to use DNS to find the domain controller. If using pre-configured domain controllers, then the domain controllers to use are specified under <code>cfgAdDomainController1</code> , <code>cfgAdDomainController2</code> , and <code>cfgAdDomainController3</code> . iDRAC6 does not fail over to the specified domain controllers when DNS lookup fails or none of the servers returned by the DNS lookup works. |
| <b>Legal Values</b> | 1 (TRUE)—use DNS to look up domain controllers<br>0 (FALSE)—use pre-configured domain controllers                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Default</b>      | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## cfgADDcSRVLookupbyUserdomain (Read/Write)



**NOTE:** This object is applicable only to iDRAC6.

|                     |                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Chooses the way the user domain is looked up for Active Directory.                                                                                                                                                                                    |
| <b>Legal Values</b> | 1 (TRUE)—use user domain as the search domain to look up DCs. The user domain is chosen from the user domain list or entered by the login user.<br>0 (FALSE)—use the configured search domain <code>cfgADDcSrvLookupDomainName</code> to look up DCs. |
| <b>Default</b>      | 1                                                                                                                                                                                                                                                     |


## cfgADDcSRVLookupDomainName (Read/Write)



**NOTE:** This object is applicable only to iDRAC6.

|                     |                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | This is the Active Directory Domain to use when <code>cfgAddcSrvLookupbyUserDomain</code> is set to 0. |
| <b>Legal Values</b> | String. Maximum length = 254                                                                           |
| <b>Default</b>      | Null                                                                                                   |

## cfgADGcSRVLookupEnable (Read/Write)


 **NOTE:** This object is applicable only to iDRAC6.

**Description** Determines how the global catalog server is looked up. If using pre-configured global catalog servers, then iDRAC6 uses the values `cfgAdGlobalCatalog1`, `cfgAdGlobalCatalog2`, and `cfgAdGlobalCatalog3`.

**Legal Values** 0(FALSE)—use pre-configured Global Catalog Servers (GCS)  
1(TRUE)—use DNS to look up GCS

**Default** 0

## cfgADGcRootDomain (Read/Write)


 **NOTE:** This object is applicable only to iDRAC6.


**Description** The name of the Active Directory root domain used for DNS look up, to locate Global Catalog servers.


**Legal Values** String. Maximum length = 254

**Default** Null

## cfgLDAP

 **NOTE:** Use this object with the `config` or `getconfig` subcommands.

 **NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

 **NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the `-o` option


This group allows you to configure settings related to the Lightweight Directory Access Protocol (LDAP).

The following sections provides information about the objects in the `cfgLDAP` group.




## cfgLdapEnable (Read/Write)

|                     |                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Turns LDAP service on or off.<br>If this property is disabled, local CMC authentication is used for user logins. |
| <b>Legal Values</b> | 1 (TRUE)—Enable LDAP Services<br>0 (FALSE)—Disable LDAP Services                                                 |
| <b>Default</b>      | 0                                                                                                                |

 **NOTE:** For CMC, enabling this option turns off **cfgADEnable**.

## cfgLdapServer (Read/Write)

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| <b>Description</b>  | Configures the address of the LDAP Server. IPv4 and IPv6 are supported.       |
| <b>Legal Values</b> | String.<br>For iDRAC6: Maximum length = 1024<br>For CMC: Maximum length = 254 |
| <b>Default</b>      | Null                                                                          |

 **NOTE:** You can specify multiple servers by separating each server with a comma. For example, example.com, sub1.example.com

## cfgLdapPort (Read/Write)

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| <b>Description</b>  | Port of LDAP over SSL. Non-SSL port is not supported. |
| <b>Legal Values</b> | 1 - 65535                                             |
| <b>Default</b>      | 636                                                   |

## cfgLdapBasedn (Read/Write)

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| <b>Description</b>  | The Domain Name of the branch of the directory where all searches should start from. |
| <b>Legal Values</b> | String. Maximum length = 254                                                         |
| <b>Default</b>      | Null                                                                                 |

## cfgLdapUserAttribute (Read/Write)

|                     |                                                                                                                                                                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the user attribute to search for. If not configured, the default used is <code>uid</code> . It is recommended to be unique within the chosen baseDN, otherwise a search filter must be configured to ensure the uniqueness of the login user. If the user DN cannot be uniquely identified, login fails with error. |
| <b>Legal Values</b> | String. Maximum length = 254                                                                                                                                                                                                                                                                                                  |
| <b>Default</b>      | Null<br><i>uid</i> if not configured.                                                                                                                                                                                                                                                                                         |

## cfgLdapGroupAttribute (Read/Write)


|                     |                                                                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specify which LDAP attribute is used to check for group membership. This should be an attribute of the group class. If not specified, then iDRAC6 or CMC uses the member and unique member attributes. |
| <b>Legal Values</b> | String. Maximum length = 254                                                                                                                                                                           |
| <b>Default</b>      | Null                                                                                                                                                                                                   |

## cfgLdapGroupAttributesDN (Read/Write)

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | <p>When it is set to 1, iDRAC6 compares the userDN retrieved from the directory to compare to the members of the group; if it is set to 0, the user name provided by the login user is used to compare to the members of the group. This does not impact the search algorithm for the bind. iDRAC6 always searches the userDN and uses the userDN to bind.</p> <p>For CMC, if enabled, the CMC performs DN matching, otherwise the CMC uses the user name provided at login for matching.</p> |
| <b>Legal Values</b> | 1 (TRUE)—Use the <i>userDN</i> from the LDAP Server<br>0 (FALSE)—Use the <i>userDN</i> provided by the login user                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Default</b>      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## cfgLdapBinddn (Read/Write)

|                     |                                                                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | The distinguished name of a user used to bind to the server when searching for the login user's DN. If not provided, an anonymous bind is used. This is optional but is required if anonymous bind is not supported. |
| <b>Legal Values</b> | String. Maximum length = 254                                                                                                                                                                                         |
| <b>Default</b>      | Null                                                                                                                                                                                                                 |

 **NOTE:** If `cfgLDAPBindDN` is [null] and `cfgLDAPBindPassword` is [null], then the CMC attempts an anonymous bind.

## cfgLdapBindpassword (Write only)

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | A bind password to use in conjunction with the bindDN. The bind password is sensitive data, and should be properly protected. This is optional but is required if anonymous bind is not supported. |
| <b>Legal Values</b> | String. Maximum length = 254                                                                                                                                                                       |
| <b>Default</b>      | Null                                                                                                                                                                                               |


## cfgLdapSearchFilter (Read/Write)

|                     |                                                                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | A valid LDAP search filter. This is used if the user attribute cannot uniquely identify the login user within the chosen baseDN. The search filter only applies to userDN search and not the group membership search. |
| <b>Legal Values</b> | For iDRAC6: String of maximum length = 254 characters<br>For CMC: String of maximum length = 1024 characters                                                                                                          |
| <b>Default</b>      | (objectclass=*)<br>Searches for all objects in tree.                                                                                                                                                                  |

## cfgLDAPCertValidationEnable (Read/Write)


|                     |                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Controls certificate validation during SSL handshake.                                                                                                                                           |
| <b>Legal Values</b> | 1 (TRUE)—iDRAC6 or CMC uses the CA certificate to validate the LDAP server certificate during SSL handshake.<br>0 (FALSE)—iDRAC6 or CMC skips the certificate validation step of SSL handshake. |
| <b>Default</b>      | 1                                                                                                                                                                                               |

## cfgLDAPNetworkTimeout

 **NOTE:** This object is applicable only to CMC.


|                     |                                            |
|---------------------|--------------------------------------------|
| <b>Description</b>  | Configures the network timeout in seconds. |
| <b>Legal Values</b> | Positive integer                           |
| <b>Default</b>      | 30 seconds                                 |

## cfgLDAPSearchTimeout

 **NOTE:** This object is applicable only to CMC.

|                     |                                           |
|---------------------|-------------------------------------------|
| <b>Description</b>  | Configures the search timeout in seconds. |
| <b>Legal Values</b> | Positive integer                          |
| <b>Default</b>      | 120 seconds                               |

## cfgLDAPSRVLookupEnable

 **NOTE:** This object is applicable only to CMC.

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| <b>Description</b>  | Configures the CMC to query a DNS server for SRV records. |
| <b>Legal Values</b> | 1 (true)<br>0 (false)                                     |
| <b>Default</b>      | 0                                                         |

## cfgLDAPSRVLookupDomainName



**NOTE:** This object is applicable only to CMC.

|                     |                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Configures the domain name to be used in the SRV lookup.                                                  |
| <b>Legal Values</b> | String of maximum length of 254 alphanumeric characters and hyphens. The string must begin with a letter. |
| <b>Default</b>      | [null]                                                                                                    |

## cfgLDAPSRVLookupServiceName



**NOTE:** This object is applicable only to CMC.

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| <b>Description</b>  | Configures the service name to be used in the SRV lookup. |
| <b>Legal Values</b> | String of maximum length of 254 characters.               |
| <b>Default</b>      | ldap                                                      |

## cfgLdapRoleGroup

This group allows the user to configure role groups for LDAP.



**NOTE:** Use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.



**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

For CMC, this object configures Generic LDAP Role group definitions and defines the CMC privileges that LDAP-authenticated users are granted.


**cfgLDAPRoleGroup** is indexed, containing instances numbered from 1 to 5. Each object instance consists of a pair of properties:

- **cfgLDAPRoleGroupDN:** an LDAP distinguished name (DN)
- **cfgLDAPRoleGroupPrivilege:** a CMC privilege map

Each LDAP-authenticated user assumes the total set of CMC privileges assigned to the matching LDAP distinguished names that the user belongs to. That is, if the user belongs to multiple role group DN's, the user receives all associated privileges for those DN's.

The following sections provides information about the objects in the `cfgLdapRoleGroup` group.

### **cfgLdapRoleGroupIndex (Read Only)**

 **NOTE:** This object is applicable only for iDRAC6.

**Description** This is the index value of the Role Group Object.

**Legal Values** An integer between 1 and 5

**Default** <instance>

### **cfgLdapRoleGroupDN (Read/Write)**

**Description** This is the Domain Name of the group in this index.  
For CMC, configure the LDAP distinguished name (DN) for the role group instance.

**Legal Values** String. Maximum length = 1024

**Default** None

#### **Example**

```
racadm getconfig -g cfgLDAPRoleGroup -o  
cfgLDAPRoleGroupDN -i 1 cn=everyone,ou=groups,dc=  
openldap,dc=com
```

### **cfgLdapRoleGroupPrivilege (Read/Write)**

**Description** A bit-mask defining the privileges associated with this particular group.

**Legal Values** 0x00000000 to 0x000001ff

**Default** 0x000

## Example

```
racadm getconfig -g cfgLDAPRoleGroup -o  
cfgLDAPRoleGroupPrivilege -i 1 0x0
```

## cfgStandardSchema

This group contains parameters to configure the Active Directory standard schema settings.



**NOTE:** Use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.



**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provides information about the objects in the `cfgStandardSchema` group.

### cfgSSADRoleGroupIndex (Read Only)

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>Description</b>  | Index of the Role Group as recorded in the Active Directory. |
| <b>Legal Values</b> | An integer between 1 and 5                                   |
| <b>Default</b>      | <instance>                                                   |

### cfgSSADRoleGroupName (Read/Write)

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| <b>Description</b>  | Name of the Role Group as recorded in the Active Directory forest.     |
| <b>Legal Values</b> | Any printable text string of up to 254 characters with no white space. |
| <b>Default</b>      | <blank>                                                                |

### cfgSSADRoleGroupDomain (Read/Write)

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| <b>Description</b>  | Active Directory Domain in which the Role Group resides.                |
| <b>Legal Values</b> | Any printable text string of up to 254 characters, with no white space. |
| <b>Default</b>      | <blank>                                                                 |

## cfgSSADRoleGroupPrivilege (Read/Write)

|                     |                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Use the bit mask numbers in Table 3-5 to set role-based authority privileges for a Role Group. |
| <b>Legal Values</b> | For iDRAC6: 0x00000000 to 0x000001ff<br>For CMC: 0x00000000–0x00000fff                         |
| <b>Default</b>      | <blank>                                                                                        |

### Example

```
racadm getconfig -g cfgStandardSchema  
  
# cfgSSADRoleGroupIndex=1  
cfgSSADRoleGroupName=blsys-1  
cfgSSADRoleGroupDomain=  
cfgSSADRoleGroupPrivilege=3081
```

**Table 3-5. Bit Masks for Role Group Privileges**

| <b>Role Group Privilege</b>     | <b>Bit Mask</b> |
|---------------------------------|-----------------|
| Login to iDRAC                  | 0x00000001      |
| Configure iDRAC                 | 0x00000002      |
| Configure Users                 | 0x00000004      |
| Clear Logs                      | 0x00000008      |
| Execute Server Control Commands | 0x00000010      |
| Access Virtual Console          | 0x00000020      |
| Access Virtual Media            | 0x00000040      |
| Test Alerts                     | 0x00000080      |
| Execute Debug Commands          | 0x00000100      |



## cfgChassisPower

This group is applicable only to CMC and contains parameters to display or configure power for the chassis.



**NOTE:** Use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property, you must have **Chassis Configuration Administrator** privilege.



**NOTE:** You can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provides information about the objects in the **cfgChassisPower** group.

### **cfgChassisInPower (Read Only)**

Indicates the cumulative input power consumption data (in watts and BTU/hr) captured from all healthy and functional PSUs in the chassis.

### **cfgChassisPeakPower (Read Only)**

The maximum system input power consumption (in watts) since the value was last cleared by a user.

### **cfgChassisPeakPowerTimestamp (Read Only)**

The timestamp recorded when the peak input power consumption value occurred.

### **cfgChassisMinPower (Read Only)**

The minimum system input power consumption value (in watts) over the time since the value was last cleared.

### **cfgChassisMinPowerTimestamp (Read Only)**

The timestamp recorded when the minimum system power occurred.

## **cfgChassisPowerStatus (Read Only)**

|                     |                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates the power status of the chassis.                                                    |
| <b>Legal Values</b> | 1 (other)<br>2 (unknown)<br>3 (OK)<br>4 (non-critical)<br>5 (critical)<br>6 (non-recoverable) |
| <b>Default</b>      | None                                                                                          |

## **cfgChassisRedundantState (Read Only)**

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| <b>Description</b>  | Enables or disables power redundancy for the chassis. |
| <b>Legal Values</b> | 0 (none)<br>1 (full)                                  |
| <b>Default</b>      | None                                                  |

## **cfgChassisPowerCap**

|                     |                                                                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates the maximum power consumption limit (in watts) for the entire chassis. The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting. |
| <b>Legal Values</b> | 2715–11637 watts                                                                                                                                                                                                 |
| <b>Default</b>      | 11637 watts                                                                                                                                                                                                      |

## **cfgChassisPowerCapF**

|                     |                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates the maximum power consumption limit (in watts) for the entire chassis. Use <b>cfgChassisPowerCapF</b> when power consumption is to be changed regardless of whether server throttling is required. This command generates an error if the value for this setting is lower than the minimum power required for the chassis configuration. |
| <b>Legal Values</b> | 2715–11637 watts                                                                                                                                                                                                                                                                                                                                   |
| <b>Default</b>      | 11637 watts                                                                                                                                                                                                                                                                                                                                        |

## **cfgChassisPowerCapBTU**

|                     |                                                                                                                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates the maximum power consumption limit (in BTU/hr) for the entire chassis. The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting. |
| <b>Legal Values</b> | 9264 - 39707 BTU/hr                                                                                                                                                                                               |
| <b>Default</b>      | 39707 BTU/hr                                                                                                                                                                                                      |

## cfgChassisPowerCapFBTU

|                     |                                                                                                                                                                                                                                                                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates the maximum power consumption limit (in BTU/hr) for the entire chassis. Use <code>cfgChassisPowerCapFBTU</code> when power consumption is to be changed regardless of whether server throttling is required. The command generates an error if the value for this setting is lower than the minimum power required for the chassis configuration. |
| <b>Legal Values</b> | 9264 - 39707 BTU/hr                                                                                                                                                                                                                                                                                                                                         |
| <b>Default</b>      | 39707 BTU/hr                                                                                                                                                                                                                                                                                                                                                |

## cfgChassisPowerCapPercent

|                     |                                                                                                                                                                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates the power consumption limit as a percentage. The percentage is computed mathematically as the minimum power + (percent * (maximum power - minimum power)). The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting. |
| <b>Legal Values</b> | 23 -100                                                                                                                                                                                                                                                                                              |
| <b>Default</b>      | 100                                                                                                                                                                                                                                                                                                  |

## cfgChassisPowerCapFPercent

|                     |                                                                                                                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates the power consumption limit as a percentage. The percentage is computed mathematically as the minimum power + (percent * (maximum power - minimum power)). Use <code>cfgChassisPowerCapFPercent</code> when power consumption is to be changed regardless of whether server throttling is required. |
| <b>Legal Values</b> | 23 -100                                                                                                                                                                                                                                                                                                       |
| <b>Default</b>      | 100                                                                                                                                                                                                                                                                                                           |

## **cfgChassisRedundancyPolicy**

|                     |                                                                       |
|---------------------|-----------------------------------------------------------------------|
| <b>Description</b>  | Sets the redundancy policy of the chassis.                            |
| <b>Legal Values</b> | 0 (no redundancy)<br>1 (AC redundancy)<br>2 (power supply redundancy) |
| <b>Default</b>      | 0 (no redundancy)                                                     |

## **cfgChassisDynamicPSUEngagementEnable**

|                     |                                         |
|---------------------|-----------------------------------------|
| <b>Description</b>  | Enables or disables dynamic engagement. |
| <b>Legal Values</b> | 0 (disabled)<br>1 (enabled)             |
| <b>Default</b>      | 0 (disabled)                            |

## **cfgChassisAllow110VACOperation**

|                     |                                                                                                                                                                                                                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables normal chassis power allocations when any power supply unit is connected to 110V AC service. If disabled and 110V power supplies are detected, all subsequent server power allocation requests are denied. In this mode additional servers cannot be powered on, regardless of server priority. |
| <b>Legal Values</b> | 0 (disabled)<br>1 (enabled)                                                                                                                                                                                                                                                                                         |
| <b>Default</b>      | 0 (disabled)                                                                                                                                                                                                                                                                                                        |

## **cfgChassisMaxPowerConservationMode**

|                     |                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables max power conservation mode. When enabled, all servers are immediately reduced to their minimum power levels, and all subsequent server power allocation requests are denied. In this mode performance of powered on servers may be degraded, and additional servers cannot be powered on, regardless of server priority. |
| <b>Legal Values</b> | 0 (disabled)<br>1 (enabled)                                                                                                                                                                                                                                                                                                                   |
| <b>Default</b>      | 0 (disabled)                                                                                                                                                                                                                                                                                                                                  |

## **cfgChassisPerformanceOverRedundancy**

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables server performance over power redundancy. When enabled, this option favors server performance and server powerup, over maintaining power redundancy. When disabled, the system favors power redundancy over server performance. When disabled, then if the power supplies in the chassis do not provide sufficient power, both for redundancy, as well as full performance, then some servers may not be granted sufficient power for full performance, or may not be powered on, in order to maintain redundancy. |
| <b>Legal Values</b> | 0 (disabled)<br>1 (enabled)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Default</b>      | 1 (enabled)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## **cfgChassisInMaxPowerCapacity (Read Only)**

Indicates the total chassis power budget (in watts) available for chassis operation.

## **cfgChassisInRedundancyReserve (Read Only)**

Indicates the amount of redundant power (in watts) in reserve that can be utilized in the event of an AC grid or PSU failure. This value is 0 if the Redundancy Policy is set to 0 (no redundancy).

### **cfgChassisInPowerServerAllocation (Read Only)**

Indicates (in watts) the cumulative power allocated to servers. There is no default as this parameter is very specific to the particular customer configuration.

### **cfgChassisInfrastructureInPowerAllocation (Read Only)**

Indicates the estimated cumulative DC output power consumption (in watts), determined from a field replaceable unit (FRU) on the hardware modules in the chassis.

### **cfgChassisTotalInPowerAvailable (Read Only)**

Indicates the amount of power (in watts) available for use by the chassis.

### **cfgChassisStandbyInPowerCapacity (Read Only)**

Indicates the amount of power (in watts) available for powering up any hardware modules that are either added to the chassis or powered up (if they are already present in the chassis).

### **cfgChassisPowerClear (Write Only)**

To reset `cfgChassisMinPower` and `cfgChassisMaxPowerCapacity`, set this object to 1.

### **cfgChassisPowerClearTimestamp (Read Only)**

Time stamp when `cfgChassisMinPower` and `cfgChassisMaxPowerCapacity` were reset.

### **cfgChassisPowerButtonEnable**

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| <b>Description</b>  | Indicates if the chassis power button is enabled or disabled. |
| <b>Legal Values</b> | 0 (disabled)<br>1 (enabled).                                  |
| <b>Default</b>      | None                                                          |

## cfgSystemEnergyConsumptionClear (Write Only)

To reset energy statistics, set this value to 1.

### Examples

```
racadm getconfig -g cfgChassisPower
# cfgChassisInPower=0 W | 0 BTU/hr
# cfgChassisPeakPower=0 W
# cfgChassisPeakPowerTimestamp=06:32:55 01/26/2009
# cfgChassisMinPower=0 W
# cfgChassisMinPowerTimestamp=06:32:55 01/26/2009
# cfgChassisPowerStatus=5
# cfgChassisRedundantState=0
cfgChassisPowerCap=11637 W
cfgChassisPowerCapF=11637 W
cfgChassisPowerCapBTU=39707 BTU/hr
cfgChassisPowerCapFBTU=39707 BTU/hr
cfgChassisPowerCapPercent =100%
cfgChassisPowerCapFPercent =100%
cfgChassisRedundancyPolicy=0
cfgChassisDynamicPSUEngagementEnable=0
# cfgChassisInMaxPowerCapacity=0 W
# cfgChassisInRedundancyReserve=0 W
# cfgChassisInPowerServerAllocation=0 W
# cfgChassisInfrastructureInPowerAllocation=51 W
# cfgChassisTotalInPowerAvailable=0 W
# cfgChassisStandbyInPowerCapacity=0 W
# cfgChassisPowerClear=***** (Write-Only)
# cfgChassisPowerClearTimestamp=18:00:00
12/31/1969
cfgChassisPowerButtonEnable=1
cfgChassisAllow110VACOperation=0
cfgChassisMaxPowerConservationMode=0
cfgChassisPerformanceOverRedundancy=1
cfgSystemEnergyConsumptionClear = ****(Write-Only)
racadm config -g cfgChassisPower
-o cfgChassisPowerClear 1
```

Clears `cfgChassisMinPower` and `cfgChassisPeakPower`.



# cfgIpmiSol

This group is applicable only for iDRAC6 and is used to configure the Serial Over LAN (SOL) capabilities of the system.

The following sections provides information about the objects in the cfgIpmiSol group.

## cfgIpmiSolEnable (Read/Write)

|                     |                          |
|---------------------|--------------------------|
| <b>Description</b>  | Enables or disables SOL. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)    |
| <b>Default</b>      | 1                        |

## cfgIpmiSolBaudRate (Read/Write)

|                     |                                                  |
|---------------------|--------------------------------------------------|
| <b>Description</b>  | The baud rate for serial communication over LAN. |
| <b>Legal Values</b> | 9600, 19200, 57600, 115200                       |
| <b>Default</b>      | 115200                                           |

## cfgIpmiSolMinPrivilege (Read/Write)

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| <b>Description</b>  | Specifies the minimum privilege level required for SOL access. |
| <b>Legal Values</b> | 2 (User)<br>3 (Operator)<br>4 (Administrator)                  |
| <b>Default</b>      | 4                                                              |

## cfgIpmiSolAccumulateInterval (Read/Write)

|                     |                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the typical amount of time that iDRAC6 waits before transmitting a partial SOL character data packet. This value is 1-based 5ms increments. |
| <b>Legal Values</b> | 1 – 255                                                                                                                                               |
| <b>Default</b>      | 10                                                                                                                                                    |

## **cfgIpmiSolSendThreshold (Read/Write)**

|                     |                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | The SOL threshold limit value. Specifies the maximum number of bytes to buffer before sending an SOL data packet. |
| <b>Legal Values</b> | 1 – 255                                                                                                           |
| <b>Default</b>      | 255                                                                                                               |

## **cfgIpmiLan**

This group is applicable only for iDRAC6 and is used to configure the IPMI over LAN capabilities of the system.

The following sections provides information about the objects in the **cfgIpmiLan** group.

### **cfgIpmiLanEnable (Read/Write)**

|                     |                                                  |
|---------------------|--------------------------------------------------|
| <b>Description</b>  | Enables or disables the IPMI over LAN interface. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                            |
| <b>Default</b>      | 0                                                |

### **cfgIpmiLanPrivLimit (Read/Write)**

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the maximum privilege level allowed for IPMI over LAN access. |
| <b>Legal Values</b> | 2 (User)<br>3 (Operator)<br>4 (Administrator)                           |
| <b>Default</b>      | 4                                                                       |

### **cfgIpmiLanAlertEnable (Read/Write)**

|                     |                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables global e-mail alerting. This property overrides all individual e-mail alerting enable/disable properties. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                         |
| <b>Default</b>      | 0                                                                                                                             |

### **cfgIpmiEncryptionKey (Read/Write)**

|                     |                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | The IPMI encryption key.                                                                                         |
| <b>Legal Values</b> | A string of hexadecimal digits from 0 to 40 characters with no spaces. Only an even amount of digits is allowed. |
| <b>Default</b>      | 0000000000000000000000000000000000000000000000000000000000000000                                                 |

### **cfgIpmiPetCommunityName (Read/Write)**

|                     |                                    |
|---------------------|------------------------------------|
| <b>Description</b>  | The SNMP community name for traps. |
| <b>Legal Values</b> | A string of up to 18 characters.   |
| <b>Default</b>      | public                             |

## cfgIpmiPetIpv6

This group is applicable only for iDRAC6 and is used to configure IPv6 platform event traps on the managed server.

The following sections provides information about the objects in the `cfgIpmiPetIpv6` group.

### cfgIpmiPetIPv6Index (Read Only)

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| <b>Description</b>  | Unique identifier for the index corresponding to the trap. |
| <b>Legal Values</b> | 1 – 4                                                      |
| <b>Default</b>      | <index value>                                              |

### cfgIpmiPetIPv6AlertDestIpAddr

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| <b>Description</b>  | Configures the IPv6 alert destination IP address for the trap. |
| <b>Legal Values</b> | IPv6 address                                                   |
| <b>Default</b>      | <blank>                                                        |

### cfgIpmiPetIPv6AlertEnable (Read/Write)

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the IPv6 alert destination for the trap. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                        |
| <b>Default</b>      | 0                                                            |

## cfgIpmiPef

This group is applicable only for iDRAC6 and is used to configure the platform event filters available on the managed server.

The event filters can be used to control policy related to actions that are triggered when critical events occur on the managed server.

The following sections provides information about the objects in the `cfgIpmiPef` group.

## **cfgIpmiPefName (Read Only)**

|                     |                                                  |
|---------------------|--------------------------------------------------|
| <b>Description</b>  | Specifies the name of the platform event filter. |
| <b>Legal Values</b> | A string of up to 255 characters.                |
| <b>Default</b>      | The name of the index filter.                    |

## **cfgIpmiPefIndex (Read/Write)**

|                     |                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the index of a specific platform event filter.                                    |
| <b>Legal Values</b> | For iDRAC6 on Rack and Tower Servers: 1 – 22<br>For iDRAC6 Enterprise on Blade Servers: 1-9 |
| <b>Default</b>      | The index value of a platform event filter object.                                          |

## **cfgIpmiPefAction (Read/Write)**

|                     |                                                                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the action that is performed on the managed server when the alert is triggered.<br><b>NOTE:</b> For iDRAC6 on Rack and Tower servers, this object is read-only for indexes 20, 21, and 22. |
| <b>Legal Values</b> | 0 (None)<br>1 (Power Down)<br>2 (Reset)<br>3 (Power Cycle)                                                                                                                                           |
| <b>Default</b>      | 0                                                                                                                                                                                                    |

## **cfgIpmiPefEnable (Read/Write)**

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| <b>Description</b>  | Enables or disables a specific platform event filter. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                 |
| <b>Default</b>      | 1                                                     |

# cfgIpmiPet

This group is applicable only for iDRAC6 and is used to configure platform event traps on the managed server.

The following sections provides information about the objects in the `cfgIpmiPet` group.

## cfgIpmiPetIndex (Read Only)

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| <b>Description</b>  | Unique identifier for the index corresponding to the trap. |
| <b>Legal Values</b> | 1-4                                                        |
| <b>Default</b>      | The index value of a specific platform event trap.         |

## cfgIpmiPetAlertDestIpAddr (Read/Write)

|                     |                                                                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the destination IPv4 address for the trap receiver on the network. The trap receiver receives an SNMP trap when an event is triggered on the managed server. |
| <b>Legal Values</b> | A string representing a valid IPv4 address. For example, 192.168.0.67.                                                                                                 |
| <b>Default</b>      | 0.0.0.0                                                                                                                                                                |

## cfgIpmiPetAlertEnable (Read/Write)

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Description</b>  | Enables or disables a specific trap. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                |
| <b>Default</b>      | 0                                    |

## cfgUserDomain

This group is applicable only for iDRAC6 and is used to configure the Active Directory user domain names. A maximum of 40 domain names can be configured at any given time.

The following sections provides information about the objects in the cfgUserDomain group.

### cfgUserDomainIndex (Read Only)

|                     |                               |
|---------------------|-------------------------------|
| <b>Description</b>  | Represents a specific domain. |
| <b>Legal Values</b> | 1 – 40                        |
| <b>Default</b>      | The index value.              |

### cfgUserDomainName (Read Only)

|                     |                                                  |
|---------------------|--------------------------------------------------|
| <b>Description</b>  | Specifies the Active Directory user domain name. |
| <b>Legal Values</b> | A string of up to 255 ASCII characters.          |
| <b>Default</b>      | <blank>                                          |

## cfgServerPower

This group provides several power management features.

The following sections provides information about the objects in the cfgServerPower group.

### cfgServerPowerStatus (Read Only)



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                      |
|---------------------|------------------------------------------------------|
| <b>Description</b>  | Represents the server power state, either ON or OFF. |
| <b>Legal Values</b> | 1 (ON)<br>0 (OFF)                                    |
| <b>Default</b>      | 0                                                    |

## cfgServerPowerAllocation (Read Only)



**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC. For iDRAC6 on Rack and Tower Servers the object is available only under Modular FW and Remote RACADM, and not in Local RACADM.

|                     |                                                                                                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Represents the available allocated power supply for server usage.<br><b>NOTE:</b> In case of more than one power supply, this object represents the minimum capacity power supply. |
| <b>Legal Values</b> | A string of up to 32 characters.                                                                                                                                                   |
| <b>Default</b>      | <blank>                                                                                                                                                                            |

## cfgServerActualPowerConsumption (Read Only)



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                                  |
|---------------------|------------------------------------------------------------------|
| <b>Description</b>  | Represents the power consumed by the server at the current time. |
| <b>Legal Values</b> | A string of up to 32 characters.                                 |
| <b>Default</b>      | <blank>                                                          |

## cfgServerPowerCapEnable (Read Only)



**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

|                     |                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the user specified power budget threshold.                                                  |
| <b>Legal Values</b> | 0 - Disables the user specified power budget threshold<br>1 - Enables the user specified power budget threshold |
| <b>Default</b>      | 1                                                                                                               |



### **cfgServerMinPowerCapacity (Read Only)**



**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

**Description** Represents the minimum server power capacity.

**Legal Values** A string of up to 32 characters.

**Default** <blank>

### **cfgServerMaxPowerCapacity (Read Only)**



**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

**Description** Represents the maximum server power capacity.

**Legal Values** A string of up to 32 characters.

**Default** <blank>

### **cfgServerPeakPowerConsumption (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

**Description** Represents the maximum power consumed by the server until the current time.

**Legal Values** A string of up to 32 characters.

**Default** <current server peak power consumption>

### **cfgServerPeakPowerConsumptionTimestamp (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

**Description** Time when the maximum power consumption was recorded.

**Legal Values** A string of up to 32 characters.

**Default** Maximum power consumption timestamp.

## cfgServerPowerConsumption (Read only)



**NOTE:** This object is applicable only to CMC.

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Description</b>  | Displays the current power consumption for a server |
| <b>Legal Values</b> | None                                                |
| <b>Default</b>      | None                                                |

**Read only.** Displays the current power consumption for a server.

### Example

```
racadm getconfig -g cfgServerInfo -i 8
# cfgServerInfoIndex=8
# cfgServerSlotNumber=8
# cfgServerServiceTag=

cfgServerName=SL0T-08
# cfgServerFW=3.0
# cfgServerBIOS=
# cfgServerBmcMacAddress=00:21:9B:FE:5F:58
# cfgServerNic1MacAddress=00:0D:56:B8:69:63
# cfgServerNic2MacAddress=00:0D:56:B8:69:65
# cfgServerNic3MacAddress=00:0D:56:B8:69:CB
# cfgServerNic4MacAddress=00:0D:56:B8:69:CD

cfgServerPriority=1
cfgServerNicEnable=1
cfgServerIPMIOverLANEnable=1
# cfgServerPowerBudgetAllocation=0

cfgServerDNSRegisterIMC=0
cfgServerDNSIMCName=iDRAC-
# cfgServerRootPassword=***** (Write-Only)
# cfgServerFirstBootDevice=***** (Write-Only)
# cfgServerBootOnce=***** (Write-Only)
# cfgServerPowerConsumption=0
```


```
racadm getconfig -g cfgServerInfo -i 1
# cfgServerInfoIndex=1
# cfgServerSlotNumber=1
# cfgServerServiceTag=1S0M0G1

cfgServerName=SL0T-01
# cfgServerFW=1.40 (Build 12)
# cfgServerBIOS=4.0.2
# cfgServerBmcMacAddress=00:18:8B:FF:41:43
# cfgServerNic1MacAddress=00:1A:A0:FF:D9:F4
# cfgServerNic2MacAddress=00:1A:A0:FF:D9:F6

cfgServerPriority=1
cfgServerNicEnable=1
cfgServerIPMIOverLANEnable=1
# cfgServerPowerBudgetAllocation=0


cfgServerDNSRegisterIMC=0
cfgServerDNSIMCName=iDRAC-1S0M0G1
# cfgServerRootPassword=***** (Write-Only)
# cfgServerFirstBootDevice=***** (Write-Only)
# cfgServerBootOnce=***** (Write-Only)
# cfgServerPowerConsumption=0
```

## cfgServerPowerConsumptionClear (Write Only)

 **NOTE:** This object is applicable only for iDRAC6.


|                     |                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Resets the cfgServerPeakPowerConsumption (Read/Write) property to 0 and the cfgServerPeakPowerConsumptionTimestamp property to the current iDRAC time. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                  |
| <b>Default</b>      | None                                                                                                                                                   |

## cfgServerPowerCapWatts (Read/Write)

 **NOTE:** This object is applicable only for iDRAC6.


|                     |                                                 |
|---------------------|-------------------------------------------------|
| <b>Description</b>  | Represents the server power threshold in Watts. |
| <b>Legal Values</b> | A string of up to 32 characters.                |
| <b>Default</b>      | Server power threshold in Watts.                |

## cfgServerPowerCapBtuhr (Read/Write)

 **NOTE:** This object is applicable only for iDRAC6.

|                     |                                                  |
|---------------------|--------------------------------------------------|
| <b>Description</b>  | Represents the server power threshold in BTU/hr. |
| <b>Legal Values</b> | A string of up to 32 characters.                 |
| <b>Default</b>      | Server power threshold in BTU/hr.                |

## cfgServerPowerCapPercent (Read/Write)

 **NOTE:** This object is applicable only for iDRAC6.

|                     |                                                      |
|---------------------|------------------------------------------------------|
| <b>Description</b>  | Represents the server power threshold in percentage. |
| <b>Legal Values</b> | A string of up to 32 characters.                     |
| <b>Default</b>      | Server power threshold in percentage.                |

### **cfgServerPowerLastMinAvg (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| <b>Description</b>  | Displays the average power value during the last minute. |
| <b>Legal Values</b> | A string of up to 32 characters.                         |
| <b>Default</b>      | Average power value during the last minute.              |

### **cfgServerPowerLastHourAvg (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| <b>Description</b>  | Displays the average power value during the last hour. |
| <b>Legal Values</b> | A string of up to 32 characters.                       |
| <b>Default</b>      | Average power value during the last hour.              |

### **cfgServerPowerLastDayAvg (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| <b>Description</b>  | Displays the average power value during the last day. |
| <b>Legal Values</b> | A string of up to 32 characters.                      |
| <b>Default</b>      | Average power value during the last day.              |


### **cfgServerPowerLastWeekAvg (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| <b>Description</b>  | Displays the average power value during the last week. |
| <b>Legal Values</b> | A string of up to 32 characters.                       |
| <b>Default</b>      | Average power value during the last week.              |

## cfgServerPowerLastHourMinPower (Read Only)


 **NOTE:** This object is applicable only for iDRAC6.

**Description** Displays the minimum power value during the last hour.

**Legal Values** A string of up to 32 characters.

**Default** Minimum power value during the last hour.

## cfgServerPowerLastHourMinTime (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.

**Description** Displays the timestamp of minimum power value during the last minute.

**Legal Values** A string of up to 32 characters.


Time in the format: DD MM Date YYYY HH:MM:SS

where,

- DD= Day of the week
- MM= Month
- Date=Date
- YYYY = Year
- HH = hour
- MM=Minutes
- SS = Seconds

**Default** Minimum power value during the last minute.

## cfgServerPowerLastHourMaxPower (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.

**Description** Displays the maximum power value during the last hour.

**Legal Values** A string of up to 32 characters.

**Default** Maximum power value during the last hour.

## **cfgServerPowerLastHourMaxTime (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                                                                                                                                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays the timestamp of maximum power value during the last hour.                                                                                                                                                                                                                            |
| <b>Legal Values</b> | A string of up to 32 characters.<br>Time in the format: DD MM Date YYYY HH:MM:SS<br>where, <ul style="list-style-type: none"><li>• DD= Day of the week</li><li>• MM= Month</li><li>• Date=Date</li><li>• YYYY = Year</li><li>• HH = hour</li><li>• MM=Minutes</li><li>• SS = Seconds</li></ul> |
| <b>Default</b>      | Maximum power value during the last hour.                                                                                                                                                                                                                                                      |


## **cfgServerPowerLastDayMinPower (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                       |
|---------------------|-------------------------------------------------------|
| <b>Description</b>  | Displays the minimum power value during the last day. |
| <b>Legal Values</b> | A string of up to 32 characters.                      |
| <b>Default</b>      | Minimum power value during the last day.              |

## cfgServerPowerLastDayMinTime (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.


**Description** Displays the timestamp of minimum power value during the last day.

**Legal Values** A string of up to 32 characters.  
Time in the format: DD MM Date YYYY HH:MM:SS  
where,

- DD = Day of the week
- MM= Month
- Date=Date
- YYYY = Year
- HH = hour
- MM=Minutes
- SS = Seconds

**Default** Minimum power value during the last day.

## cfgServerPowerLastDayMaxPower (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.

**Description** Displays the maximum power value during the last day.

**Legal Values** A string of up to 32 characters.

**Default** Maximum power value during the last day.



## cfgServerPowerLastDayMaxTime (Read Only)



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays the timestamp of maximum power value during the last day.                                                                                                                                                                                                                              |
| <b>Legal Values</b> | A string of up to 32 characters.<br>Time in the format: DD MM Date YYYY HH:MM:SS<br>where, <ul style="list-style-type: none"><li>• DD = Day of the week</li><li>• MM= Month</li><li>• Date=Date</li><li>• YYYY = Year</li><li>• HH = hour</li><li>• MM=Minutes</li><li>• SS = Seconds</li></ul> |
| <b>Default</b>      | Maximum power value during the last day.                                                                                                                                                                                                                                                        |


## cfgServerPowerLastWeekMinPower (Read Only)



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| <b>Description</b>  | Displays the minimum power value during the last week. |
| <b>Legal Values</b> | A string of up to 32 characters.                       |
| <b>Default</b>      | Minimum power value during the last week.              |

## cfgServerPowerLastWeekMinTime (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.


**Description** Displays the timestamp of minimum power value during the last week.

**Legal Values** A string of up to 32 characters.  
Time in the format: DD MM Date YYYY HH:MM:SS  
where,

- DD = Day of the week
- MM= Month
- Date=Date
- YYYY = Year
- HH = hour
- MM=Minutes
- SS = Seconds

**Default** Minimum power value during the last week

## cfgServerPowerLastWeekMaxPower (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.

**Description** Displays the maximum power value during the last week.

**Legal Values** A string of up to 32 characters.

**Default** Maximum power value during the last week.

## cfgServerPowerLastWeekMaxTime (Read Only)



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                                                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays the timestamp of maximum power value during the last week.                                                                                                                                                                                                                             |
| <b>Legal Values</b> | A string of up to 32 characters.<br>Time in the format: DD MM Date YYYY HH:MM:SS<br>where, <ul style="list-style-type: none"><li>• DD = Day of the week</li><li>• MM= Month</li><li>• Date=Date</li><li>• YYYY = Year</li><li>• HH = hour</li><li>• MM=Minutes</li><li>• SS = Seconds</li></ul> |
| <b>Default</b>      | Maximum power value during the last week.                                                                                                                                                                                                                                                       |

## cfgServerPowerInstHeadroom (Read Only)



**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays the difference between the available power and the current power consumption. |
| <b>Legal Values</b> | A string of up to 32 characters.                                                       |
| <b>Default</b>      | Difference between the available power and the current power consumption.              |

### **cfgServerPowerPeakHeadroom (Read Only)**



**NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

- Description**      Displays the difference between the available power and the peak power consumption.
- Legal Values**      A string of up to 32 characters.
- Default**            Difference between the available power and the peak power consumption.

### **cfgServerActualAmperageConsumption (Read Only)**



**NOTE:** This object is applicable only for iDRAC6

- Description**      Displays the current power consumption.
- Legal Values**      A string of up to 32 characters.
- Default**            Current power consumption.

### **cfgServerPeakAmperage (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

- Description**      Displays the current peak power consumption.
- Legal Values**      A string of up to 32 characters.
- Default**            Current peak power consumption.

## cfgServerPeakAmperageTimeStamp (Read Only)



**NOTE:** This object is applicable only for iDRAC6.

**Description** Displays the timestamp of the current peak power consumption.

**Legal Values** A string of up to 32 characters.

Time in the format: DD MM Date YYYY HH:MM:SS

where,

- DD = Day of the week
- MM= Month
- Date=Date
- YYYY = Year
- HH = hour
- MM=Minutes
- SS = Seconds

**Default** Timestamp of the current peak power consumption.

## cfgServerCumulativePowerConsumption (Read Only)




**NOTE:** This object is applicable only for iDRAC6.

**Description** Displays the cumulative power consumption.

**Legal Values** A string of up to 32 characters.

**Default** Cumulative power consumption.

## cfgServerCumulativePowerConsumptionTimeStamp (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.


**Description** Displays the timestamp of the cumulative power consumption.

**Legal Values** A string of up to 32 characters.  
Time in the format: DD MM Date YYYY HH:MM:SS  
where,

- DD = Day of the week
- MM= Month
- Date=Date
- YYYY = Year
- HH = hour
- MM=Minutes
- SS = Seconds

**Default** Timestamp of the cumulative power consumption.

## cfgServerCumulativePowerClear (Write Only)


 **NOTE:** This object is applicable only for iDRAC6.

**Description** Clears the cfgServerCumulativePowerConsumption and cfgServerCumulativePowerConsumptionTimeStamp values.

**Legal Values** A string of up to 32 characters.

**Default** None

## cfgServerPeakPowerClear (Write Only)

 **NOTE:** This object is applicable only for iDRAC6.

**Description** Clears the cfgServerPeakPowerConsumption and cfgServerPeakPowerConsumptionTimestamp values.

**Legal Values** A string of up to 32 characters.

**Default** None

## cfgServerPowerPCleAllocation (Read/Write)



**NOTE:** This object is applicable only for iDRAC6.



**NOTE:** This object is applicable for iDRAC6 Enterprise only for specific Blade Servers and not for iDRAC6 on Rack and Tower Servers or CMC.



**NOTE:** You must have Administrator privileges to modify the value for this object..

|                     |                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Amount of power allocated to the PCIe cards.                                                             |
| <b>Legal Values</b> | 0W: For platforms that do not support PCIe cards.<br>100W - 500W: For platforms that support PCIe cards. |
| <b>Default</b>      | 0: For platforms that do not support PCIe cards.<br>500W: For platforms that support PCIe cards.         |

## cfgKVMInfo



**NOTE:** This object is applicable only for CMC.



**NOTE:** Use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property, you must have **Chassis Configuration Administrator** privilege.



**NOTE:** You can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

This group is used to display information for and configure the iKVM.

## cfgKVMAccessToCMCEnable

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the Dell CMC Console access on the iKVM. |
| <b>Legal Values</b> | 1 (enable)<br>0 (disable)                                    |
| <b>Default</b>      | None                                                         |

## cfgKVMFrontPanelEnable

|                     |                                                    |
|---------------------|----------------------------------------------------|
| <b>Description</b>  | Enables or disables front panel access on the iKVM |
| <b>Legal Values</b> | 1 (enable)<br>0 (disable)                          |
| <b>Default</b>      | None                                               |

### Example

```
racadm getconfig -g cfgKVMInfo  
  
cfgKVMAccessToCMCEnable=1  
cfgKVMFrontPanelEnable=1
```

## cfgAlerting



**NOTE:** This object is applicable only for CMC.



**NOTE:** Use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property, you must have **Chassis Configuration Administrator** privilege.

This group is used to enable or disable SNMP event trap alerting and set the event filter.

## cfgAlertingEnable

|                     |                                             |
|---------------------|---------------------------------------------|
| <b>Description</b>  | Enables or disables event traps on the CMC. |
| <b>Legal Values</b> | 1 (true)<br>0 (false)                       |
| <b>Default</b>      | None                                        |



## cfgAlertingFilterMask

|                     |                             |
|---------------------|-----------------------------|
| <b>Description</b>  | Sets the event filter       |
| <b>Legal Values</b> | Hex values 0x0 – 0x01ffffff |
| <b>Default</b>      | 0x17ff8db                   |

## cfgAlertingSourceEmailName

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| <b>Description</b>  | E-mail address used to send e-mail notifications when an event occurs. |
| <b>Legal Values</b> | None                                                                   |
| <b>Default</b>      | None                                                                   |


### Examples


- ```
racadm getconfig -g cfgAlerting -o  
cfgAlertingEnable 1
```
- ```
racadm config -g cfgAlerting -o cfgAlertingEnable  
1
```

Object value modified successfully.

## cfgServerPowerSupply


This group is applicable only for iDRAC6 and contains information related to the power supplies. The following sections provide information about the objects in the `cfgServerPowerSupply` group.

 **NOTE:** The `cfgServerPowerSupply` object group is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

 **NOTE:** The `getconfig` subcommand always shows eight `cfgServerPowerSupply` indexes, even if two power supplies are installed in the system or the system supports a maximum of two power supply units. For the uninstalled and unsupported units, all the objects in the `cfgServerPowerSupply` group displays a value of 0.

## cfgServerPowerSupplyIndex

|                     |                                 |
|---------------------|---------------------------------|
| <b>Description</b>  | Index of the power supply unit. |
| <b>Legal Values</b> | Integer from 1-8                |
| <b>Default</b>      | None                            |

 **NOTE:** Indexes from 1 – 8 are supported to support up to 8 power supply units. If any power supply unit is not present, **cfgServerPowerSupplyOnlineStatus** is absent and for all the other properties, it is **0**.

## cfgServerPowerSupplyMaxInputPower (Read Only)

|                     |                                             |
|---------------------|---------------------------------------------|
| <b>Description</b>  | Displays the AC input rated power in Watts. |
| <b>Legal Values</b> | A string of up to 32 characters.            |
| <b>Default</b>      | 0                                           |

## cfgServerPowerSupplyMaxOutputPower (Read Only)

|                     |                                              |
|---------------------|----------------------------------------------|
| <b>Description</b>  | Displays the AC output rated power in Watts. |
| <b>Legal Values</b> | A string of up to 32 characters.             |
| <b>Default</b>      | 0                                            |

## cfgServerPowerSupplyOnlineStatus (Read Only)

|                     |                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays the status of the power supply unit.                                                                                             |
| <b>Legal Values</b> | <ul style="list-style-type: none"><li>• 0 - Present</li><li>• 1 - Absent</li><li>• 2 - Failure</li><li>• 3 - Predictive failure</li></ul> |
| <b>Default</b>      | 0                                                                                                                                         |

## cfgServerPowerSupplyFwVer (Read Only)

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| <b>Description</b>  | Displays the firmware version of the power supply unit. |
| <b>Legal Values</b> | A string up to 8 characters.                            |
| <b>Default</b>      | Null                                                    |

## cfgServerPowerSupplyCurrentDraw (Read Only)

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| <b>Description</b>  | Displays the instantaneous current consumption in 0.1 Amps. |
| <b>Legal Values</b> | A string of up to 32 characters.                            |
| <b>Default</b>      | 0                                                           |

## cfgServerPowerSupplyType

|                     |                                                |
|---------------------|------------------------------------------------|
| <b>Description</b>  | Displays whether the power supply is AC or DC. |
| <b>Legal Values</b> | A string of up to 32 characters.               |
| <b>Default</b>      | 0                                              |

## cfgIPv6LanNetworking

This group is used to configure the IPv6 over LAN networking capabilities.



**NOTE:** Use this object with the **config** or **getconfig** subcommands.



**NOTE:** To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.



**NOTE:** Use the -m option to apply this setting to iDRAC.

The following sections provides information about the objects in the **cfgIPv6LanNetworking** group.

## cfgIPv6Enable (Read/Write)

|                     |                                               |
|---------------------|-----------------------------------------------|
| <b>Description</b>  | Enables or disables iDRAC6 or CMC IPv6 stack. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                         |
| <b>Default</b>      | 0                                             |

## cfgIPv6Address



**NOTE:** This object is applicable only for CMC.

|                     |                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Assigns a static IPv6 address to the CMC. This property is used only if <b>cfgIPv6AutoConfig</b> is set to 0 (false). |
| <b>Legal Values</b> | A string representing a valid IPv6 address. For example, 2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF                       |
| <b>Default</b>      | ::                                                                                                                    |

## cfgIPv6Address1 (Read/Write)

|                     |                                         |
|---------------------|-----------------------------------------|
| <b>Description</b>  | iDRAC6 or CMC IPv6 address.             |
| <b>Legal Values</b> | String representing a valid IPv6 entry. |
| <b>Default</b>      | ::                                      |

## cfgIPv6Gateway (Read/Write)

|                     |                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | iDRAC6 or CMC gateway IPv6 address.<br><b>NOTE:</b> For CMC, this property is used only if <b>cfgIPv6AutoConfig</b> is set to 0 (false) |
| <b>Legal Values</b> | String representing a valid IPv6 entry.                                                                                                 |
| <b>Default</b>      | ::                                                                                                                                      |

## cfgIPv6PrefixLength (Read/Write)

|                     |                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | The prefix length for iDRAC6 or CMC IPv6 address1.<br><b>NOTE:</b> For CMC, this property is used only if <b>cfgIPv6AutoConfig</b> is set to 0 (false) |
| <b>Legal Values</b> | For iDRAC6: 1-128<br>For CMC: 0-128                                                                                                                    |
| <b>Default</b>      | 64                                                                                                                                                     |

## cfgIPv6AutoConfig (Read/Write)

|                     |                                                                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the IPv6 Auto Configuration option.<br><b>NOTE:</b> If this value is set to 0, the CMC disables auto configuration and statically assigns IPv6 addresses. If this value is set to 1, the CMC obtains address and route information using stateless auto configuration and DHCPv6. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                                                                                                                                 |
| <b>Default</b>      | For iDRAC6: 0<br>For CMC: 1                                                                                                                                                                                                                                                                           |



**NOTE:** The CMC uses its MAC address for its DUID (DUID-LL) when communicating with a DHCPv6 server.

## cfgIPv6LinkLocalAddress (Read Only)



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                           |
|---------------------|-------------------------------------------|
| <b>Description</b>  | The iDRAC6 IPv6 link local address.       |
| <b>Legal Values</b> | A string representing a valid IPv6 entry. |
| <b>Default</b>      | ::                                        |


## cfgIPv6Address2 (Read Only)



**NOTE:** This object is applicable only for iDRAC6.


|                     |                                           |
|---------------------|-------------------------------------------|
| <b>Description</b>  | The iDRAC6 IPv6 second address.           |
| <b>Legal Values</b> | A string representing a valid IPv6 entry. |
| <b>Default</b>      | ::                                        |

### cfgIPv6Address3 (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.


**Description**      The iDRAC6 IPv6 third address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### cfgIPv6Address4 (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.


**Description**      The iDRAC6 IPv6 fourth address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### cfgIPv6Address5 (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.

**Description**      The iDRAC6 IPv6 fifth address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### cfgIPv6Address6 (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.

**Description**      The iDRAC6 IPv6 sixth address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### **cfgIPv6Address7 (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

**Description**        The iDRAC6 IPv6 seventh address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### **cfgIPv6Address8 (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

**Description**        The iDRAC6 IPv6 eighth address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### **cfgIPv6Address9 (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.

**Description**        The iDRAC6 IPv6 ninth address..  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::


### **cfgIPv6Address10 (Read Only)**



**NOTE:** This object is applicable only for iDRAC6.


**Description**        The iDRAC6 IPv6 tenth address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### cfgIPv6Address11 (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.


**Description**      The iDRAC6 IPv6 eleventh address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### cfgIPv6Address12 (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.


**Description**      The iDRAC6 IPv6 twelfth address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### cfgIPv6Address13 (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.

**Description**      The iDRAC6 IPv6 thirteenth address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::

### cfgIPv6Address14 (Read Only)

 **NOTE:** This object is applicable only for iDRAC6.

**Description**      The iDRAC6 IPv6 fourteenth address.  
**Legal Values**      String representing a valid IPv6 entry.  
**Default**            ::



## cfgIPv6Address15 (Read Only)



**NOTE:** This object is applicable only for iDRAC6.

|                     |                                         |
|---------------------|-----------------------------------------|
| <b>Description</b>  | The iDRAC6 IPv6 fifteenth address.      |
| <b>Legal Values</b> | String representing a valid IPv6 entry. |
| <b>Default</b>      | ::                                      |

## cfgIPv6DNSServersFromDHCP6 (Read/Write)

|                     |                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies whether <code>cfgIPv6DNSServer1</code> and <code>cfgIPv6DNSServer2</code> are static or DHCP IPv6 addresses.<br><b>NOTE:</b> For CMC, this property is used only if <code>cfgIPv6AutoConfig</code> is set to 1 (true). |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                                                            |
| <b>Default</b>      | For iDRAC6: 0<br>For CMC: 1                                                                                                                                                                                                      |

## cfgIPv6DNSServer1 (Read/Write)

|                     |                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | An IPv6 DNS server address.<br><b>NOTE:</b> For CMC, this property is used only if <code>cfgIPv6DNSServersFromDHCP6</code> is set to 0 (false). |
| <b>Legal Values</b> | A string representing a valid IPv6 entry. For example, 2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF                                                   |
| <b>Default</b>      | ::                                                                                                                                              |

## cfgIPv6DNSServer2 (Read/Write)

|                     |                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | An IPv6 DNS server address.<br><b>NOTE:</b> This property is only valid if <b>cfgIPv6DNSServersFromDHCP6</b> is set to 0 (false). |
| <b>Legal Values</b> | A string representing a valid IPv6 entry. For example,<br>2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF                                  |
| <b>Default</b>      | ::                                                                                                                                |

### Example

```
$ racadm getconfig -g cfgIPv6LanNetworking [-m server-  
<n> ]  
cfgIPv6Enable=1  
cfgIPv6AutoConfig=1  
cfgIPv6Address=::  
cfgIPv6PrefixLength=64  
cfgIPv6Gateway=::  
cfgIPv6DNSServersFromDHCP6=1  
cfgIPv6DNSServer1=::  
cfgIPv6DNSServer2=::
```

If both IPv4 and IPv6 are enabled on the CMC, IPv6 DNS servers take priority. The order of preference for DNS servers is:

- **cfgIPv6DNSServer1**
- **cfgIPv6DNSServer2**
- **cfgDNSServer1**
- **cfgDNSServer2**

## cfgCurrentLanNetworking (Read only)



**NOTE:** This object property is applicable only for CMC. Use this object with the `getconfig` subcommand.



**NOTE:** To use this object property, you must have **CMC Login User** privilege.

### Description

Displays the current CMC NIC properties.

### Synopsis

```
racadm getconfig -g cfgCurrentLanNetworking
```

### cfgNicCurrentIpAddress

Displays the static IP address to the CMC.

### cfgNicCurrentNetmask

Displays the static subnet mask for the CMC IP address.

### cfgNicCurrentGateway

Displays the static gateway for the CMC IP address.

### cfgNicCurrentDhcpWasUsed

#### Description

Indicates whether DHCP is used to configure the NIC.

#### Legal Values

0 – address is static.

1 – address was obtained from the DHCP server.

#### Default

None

### cfgDNSCurrentServer1

Displays the IP address for DNS server 1.

### cfgDNSCurrentServer2

Displays the IP address for DNS server 2.

## cfgDNSCurrentDomainName

Displays the DNS domain name.

## cfgNicCurrentIPv4Enabled

Indicates whether IPv4 is enabled on the CMC. If the current property value is set to 0 (false), the remote network interfaces to the CMC are not accessible over IPv4.

### Example

```
racadm getconfig -g cfgCurrentLanNetworking
# cfgNicCurrentIPv4Enabled=1
# cfgNicCurrentIpAddress=143.166.152.116
# cfgNicCurrentNetmask=255.255.255.0
# cfgNicCurrentGateway=143.166.152.1
# cfgNicCurrentDhcpWasUsed=0
# cfgNicCurrentVlanEnable=0
# cfgNicCurrentVlanID=1
# cfgNicCurrentVlanPriority=0
# cfgDNSCurrentServer1=192.168.0.5
# cfgDNSCurrentServer2=192.168.0.6
# cfgDNSCurrentDomainName=MYDOMAIN
```

## cfgCurrentIPv6LanNetworking (read only)



**NOTE:** This object property is applicable only for CMC. Use this object with the `getconfig` subcommand.



**NOTE:** To use this object property, you must have **CMC Login User** privilege.

### Description

Displays the current CMC IPv6 properties.

## cfgCurrentIPv6Enabled

Indicates whether IPv6 is enabled on the CMC. If the current property value is set to 0 (false), the remote network interfaces to the CMC are not accessible over IPv6.

## **cfgCurrentIPv6AutoConfigWasUsed**

|                     |                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates whether auto configuration is used to obtain IPv6 settings, including stateless IPv6 address(es) and gateway. |
| <b>Legal Values</b> | 0 (static addressing is used)<br>1 (address is obtained from the DHCPv6 server and/or stateless auto configuration)     |
| <b>Default</b>      | None                                                                                                                    |

## **cfgCurrentLinkLocalAddress**

Displays the current IPv6 link-local address of the CMC.

## **cfgCurrentIPv6Address1**

Displays the current IPv6 addresses. This property displays up to 15 global IPv6 addresses, including stateful and stateless addresses.

## **cfgCurrentIPv6Gateway**

Displays the current IPv6 gateway.

## **cfgCurrentIPv6DNSServersFromDHCP6**

Indicates whether the DNS server addresses are assigned from the DHCPv6 server.

## **cfgCurrentIPv6DNSServer1**

Displays the IPv6 address for DNS server 1.

## **cfgCurrentIPv6DNSServer2**

Displays the IPv6 address for DNS server 2.

## **Example**

```
$ racadm getconfig -g cfgCurrentIPv6LanNetworking
# cfgCurrentIPv6Enabled=1
# cfgCurrentIPv6AutoConfigWasUsed=1
# cfgCurrentLinkLocalAddress=
fe80::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Address1=
```

```
2009:123::e48f:9dd8:6f51:a669/64
# cfgCurrentIPv6Address2=
fd88:1::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Address3=
fd88:2::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Gateway=fe80::21c:23ff:fe77:6215
# cfgCurrentIPv6DNSServersFromDHCP6=1
# cfgCurrentIPv6DNSServer1=2009:123::1
# cfgCurrentIPv6DNSServer2=::
```

## cfgIPv6URL

This group specifies properties used to configure iDRAC6 IPv6 URL. The following sections provides information about the objects in the `cfgIPv6URL` group.

### cfgIPv6URLstring (Read Only)

|                     |                                  |
|---------------------|----------------------------------|
| <b>Description</b>  | The iDRAC6 IPv6 URL.             |
| <b>Legal Values</b> | A string of up to 80 characters. |
| <b>Default</b>      | <blank>                          |

## cfgIpmiSerial

This group is applicable only for iDRAC6 and specifies properties used to configure the IPMI serial interface of the BMC.

 **NOTE:** The `cfgIpmiSerial` object group is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers or CMC.

### cfgIpmiSerialBaudRate (Read/Write)

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| <b>Description</b>  | Specifies the baud rate for a serial connection over IPMI. |
| <b>Legal Values</b> | 9600, 19200, 57600, 115200                                 |
| <b>Default</b>      | 57600                                                      |

## **cfgIpmiSerialConnectionMode (Read/Write)**

**Description** When the iDRAC6 `cfgSerialConsoleEnable` property is set to 0 (disabled), the iDRAC6 serial port becomes the IPMI serial port. This property determines the IPMI defined mode of the serial port.

In Basic mode, the port uses binary data with the intent of communicating with an application program on the serial client. In Terminal mode, the port assumes that a dumb ASCII terminal is connected and allows very simple commands to be entered.

**Legal Values** 0 (Terminal)  
1 (Basic)

**Default** 1

## **cfgIpmiSerialChanPrivLimit (Read/Write)**

**Description** Specifies the maximum privilege level allowed on the IPMI serial channel.

**Legal Values** 2 (User)  
3 (Operator)  
4 (Administrator)

**Default** 4

## **cfgIpmiSerialFlowControl (Read/Write)**

**Description** Specifies the flow control setting for the IPMI serial port.

**Legal Values** 0 (None)  
1 (CTS/RTS)

**Default** 1

### **cfgIpmiSerialHandshakeControl (Read/Write)**

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the IPMI terminal mode handshake control. |
| <b>Legal Values</b> | 0 (FALSE)<br>1 (TRUE)                                         |
| <b>Default</b>      | 1                                                             |

### **cfgIpmiSerialLineEdit (Read/Write)**

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| <b>Description</b>  | Enables or disables line editing on the IPMI serial interface. |
| <b>Legal Values</b> | 0 (FALSE)<br>1 (TRUE)                                          |
| <b>Default</b>      | 1                                                              |

### **cfgIpmiSerialEchoControl (Read/Write)**

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| <b>Description</b>  | Enables or disables echo control on the IPMI serial interface. |
| <b>Legal Values</b> | 0 (FALSE)<br>1 (TRUE)                                          |
| <b>Default</b>      | 1                                                              |

### **cfgIpmiSerialDeleteControl (Read/Write)**

|                     |                                                                  |
|---------------------|------------------------------------------------------------------|
| <b>Description</b>  | Enables or disables delete control on the IPMI serial interface. |
| <b>Legal Values</b> | 0 (FALSE)<br>1 (TRUE)                                            |
| <b>Default</b>      | 0                                                                |



### **cfgIpmiSerialNewLineSequence (Read/Write)**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the newline sequence specification for the IPMI serial interface. |
| <b>Legal Values</b> | 0 (None)<br>1 (CR-LF)<br>2 (NULL)<br>3 (<CR>)<br>4 (<LF-CR>)<br>5 (<LF>)    |
| <b>Default</b>      | 1                                                                           |

### **cfgIpmiSerialInputNewLineSequence (Read/Write)**

|                     |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the input newline sequence specification for the IPMI serial interface. |
| <b>Legal Values</b> | 1 (CR-LF)<br>2 (NULL)                                                             |
| <b>Default</b>      | 1                                                                                 |

## cfgSmartCard


This group is applicable only for iDRAC6 and specifies properties used to support access to iDRAC6 using a smart card.

The following sections provides information about the objects in the cfgSmartCard group.

### cfgSmartCardLogonEnable (Read/Write)

|                     |                                                                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables, disables, or enables with Remote RACADM support for access to iDRAC6 using a smart card.<br><b>NOTE:</b> Enabling with remote RACADM is only applicable for iDRAC6 on Rack and Tower Servers. |
| <b>Legal Values</b> | 0 (Disabled)<br>1 (Enabled)<br>2 (Enabled with Remote RACADM) - This is not applicable for iDRAC6 Enterprise on Blade Servers.                                                                         |
| <b>Default</b>      | 0                                                                                                                                                                                                      |

### cfgSmartCardCRLEnable (Read/Write)

 **NOTE:** This object is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| <b>Description</b>  | Enables or disables the Certificate Revocation List (CRL). |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                      |
| <b>Default</b>      | 0                                                          |

# cfgNetTuning

This group enables users to configure the advanced network interface parameters for the RAC NIC or CMC. When configured, the updated settings may take up to a minute to become active.

The following sections provides information about the objects in the `cfgNetTuning` group.



**NOTE:** The `cfgNetTuning` object group is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.



**CAUTION:** Use extra precaution when modifying properties in this group. Inappropriate modification of the properties in this group can result in your RAC NIC become inoperable.

## cfgNetTuningNicSpeed

|                     |                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the speed for the CMC NIC. This property is used only if <code>cfgNetTuningNicAutoNeg</code> is set to 0 (disabled). |
| <b>Legal Values</b> | 10 or 100                                                                                                                      |
| <b>Default</b>      | 100                                                                                                                            |

## cfgNetTuningNicAutoneg (Read/Write)

|                     |                                                                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Enables autonegotiation of physical link speed and duplex. If enabled, autonegotiation takes priority over values set in the <code>cfgNetTuningNic100MB</code> and <code>cfgNetTuningNicFullDuplex</code> objects. |
| <b>Legal Values</b> | 1 (TRUE)<br>0 (FALSE)                                                                                                                                                                                              |
| <b>Default</b>      | 1                                                                                                                                                                                                                  |

### Example

```
racadm getconfig -g cfgNetTuning  
  
cfgNetTuningNicSpeed=100  
cfgNetTuningNicFullDuplex=1  
cfgNetTuningNicMtu=1500  
cfgNetTuningNicAutoneg=1
```

## cfgNetTuningNic100MB (Read/Write)


|                     |                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the speed to use for the RAC NIC. This property is not used if the <code>cfgNetTuningNicAutoNeg</code> is set to 1 (enabled). |
| <b>Legal Values</b> | 0 (10 MBit)<br>1 (100 MBit)                                                                                                             |
| <b>Default</b>      | 1                                                                                                                                       |

## cfgNetTuningNicFullDuplex (Read/Write)

|                     |                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Specifies the duplex setting for the RAC or CMC NIC. This property is used only if the <code>cfgNetTuningNicAutoNeg</code> is set to 0 (disabled). |
| <b>Legal Values</b> | 0 (Half Duplex)<br>1 (Full Duplex)                                                                                                                 |
| <b>Default</b>      | 1                                                                                                                                                  |

## cfgNetTuningNicMtu (Read/Write)


|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| <b>Description</b>  | The size in bytes of the maximum transmission unit used by iDRAC6 or CMC NIC. |
| <b>Legal Values</b> | 576 – 1500                                                                    |
| <b>Default</b>      | 1500                                                                          |

 **NOTE:** IPv6 requires a minimum MTU of 1280. If IPv6 is enabled, and `cfgNetTuningMtu` is set to a lower value, the CMC uses an MTU of 1280.

## cfgSensorRedundancy

This group is applicable only for iDRAC6 and is used to set the power supply redundancy.

The following sections provides information about the objects in the `cfgSensorRedundancy` group.

 **NOTE:** The `cfgSensorRedundancy` object group is applicable only for iDRAC6 on Rack and Tower Servers and not for iDRAC6 Enterprise on Blade Servers.

## **cfgSensorRedundancyIndex (Read Only)**

|                     |                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------|
| <b>Description</b>  | Index for the sensor redundancy group being read. Only power supply redundancy is supported. |
| <b>Legal Values</b> | 1                                                                                            |
| <b>Default</b>      | None                                                                                         |

## **cfgSensorRedundancyPolicy (Read/Write)**

|                     |                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Sets the power supply redundancy policy.                                                                                         |
| <b>Legal Values</b> | 2 - N/A, for systems that are not supported<br>3 - Non Redundant<br>4 - 1+1 Redundant<br>4 - 2+1 Redundant<br>16 - 2+2 Redundant |
| <b>Default</b>      | Any legal value at that particular execution instance.                                                                           |

## **cfgSensorRedundancyCapabilities (Read Only)**

|                     |                                                                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Returns the redundancy capabilities in the form of a bitmask. This bitmask allows the user to know which values can be set for <code>cfgSensorRedundancyPolicy</code> .                                                       |
| <b>Legal Values</b> | A bit mask. More than 1-bit can be set at a time to indicate multiple redundancy support.<br>0- N/A, for systems that are not supported<br>1- Non Redundant<br>2- 1+1 - Redundant<br>4- 2+1 - Redundant<br>8- 2+2 - Redundant |
| <b>Default</b>      | 0                                                                                                                                                                                                                             |

## cfgSensorRedundancyStatus (Read Only)

|                     |                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates the redundancy status. The status is N/A on platforms that does not support the power supply sensor redundancy. |
| <b>Legal Values</b> | String: <ul style="list-style-type: none"><li>• N/A</li><li>• Full</li><li>• Lost</li><li>• Degraded</li></ul>            |
| <b>Default</b>      | None                                                                                                                      |

## cfgVFlashSD

This group is applicable only for iDRAC6 and is used to configure the properties for the vFlash SD card.

The following sections provides information about the objects in the cfgVFlashSD group.

### cfgVFlashSDEnable (Read/Write)

|                     |                                                 |
|---------------------|-------------------------------------------------|
| <b>Description</b>  | Enables or disables the vFlash SD card.         |
| <b>Legal Values</b> | 0 (vFlash is disabled)<br>1 (vFlash is enabled) |
| <b>Default</b>      | 1                                               |

### cfgVFlashSDSize (Read Only)

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| <b>Description</b>  | Displays the size of the vFlash SD card in megabytes (MB). |
| <b>Legal Values</b> | A string of upto 64 characters.                            |
| <b>Default</b>      | <card size>                                                |

## cfgVFlashSDLicensed (Read Only)

|                     |                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays whether a SD card or vFlash SD card is inserted. The vFlash SD card supports the new enhanced vFlash features and the SD card supports only the limited vFlash features. |
| <b>Legal Values</b> | 0 (SD card is inserted)<br>1 (vFlash SD card is inserted)                                                                                                                         |
| <b>Default</b>      | None                                                                                                                                                                              |

## cfgVFlashSDAvailableSize (Read Only)

|                     |                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays the available space (in MB) on the vFlash SD card that can be used to create new partitions. |
| <b>Legal Values</b> | A string of up to 64 characters.                                                                      |
| <b>Default</b>      | If the card is not initialized, default is 0. If initialized, displays the unused space on the card.  |

## cfgVFlashSDHealth (Read Only)

|                     |                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays the current health status of the vFlash SD card.                                                           |
| <b>Legal Values</b> | String: <ul style="list-style-type: none"><li>• OK</li><li>• Warning</li><li>• Critical</li><li>• Unknown</li></ul> |
| <b>Default</b>      | OK                                                                                                                  |

## cfgVFlashSDWriteProtect (Read Only)

|                     |                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------|
| <b>Description</b>  | Displays whether the physical write-protect latch on the vFlash SD card is enabled or disabled. |
| <b>Legal Values</b> | 0 (vFlash is not write-protected)<br>1 (vFlash is write-protected)                              |
| <b>Default</b>      | None                                                                                            |

## cfgVFlashPartition

This group is applicable only for iDRAC6 and is used to configure properties for individual partitions on the vFlash SD Card. Up to 16 partitions are supported, indexed from 1 to 16.



**NOTE:** For SD cards, the index value is limited to 1 because only a single partition of size 256 MB is allowed.

The following sections provides information about the objects in the **cfgVFlashPartition** group.

### cfgVFlashPartitionIndex (ReadOnly)

|                     |                                     |
|---------------------|-------------------------------------|
| <b>Description</b>  | Displays the size of the partition. |
| <b>Legal Values</b> | Integer from 1-16                   |
| <b>Default</b>      | None                                |

### cfgVFlashPartitionSize (ReadOnly)

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Description</b>  | The index value of the partition. |
| <b>Legal Values</b> | 1MB to 4 GB                       |
| <b>Default</b>      | None                              |



### **cfgVFlashPartitionEmulationType (ReadOnly)**

**Description** Displays the emulation type for the partition.

**Legal Values** String:

- HDD
- Floppy
- CDROM

**Default** None

### **cfgVFlashPartitionOSVollLabel (ReadOnly)**

**Description** Displays the label for the partition that is visible to the operating system.

**Legal Values** An alphanumeric string of up to six characters.

**Default** None

### **cfgVFlashPartitionFormatType (ReadOnly)**

**Description** Displays the format type of the partition.

**Legal Values** String:

- FAT16
- FAT32
- EXT2
- EXT3
- CD
- RAW

**Default** None

### **cfgVFlashPartitionAccessType (Read/Write)**

|                     |                                                                                          |
|---------------------|------------------------------------------------------------------------------------------|
| <b>Description</b>  | Indicates the partition access permissions. It configures the access type to read-write. |
| <b>Legal Values</b> | 0(Read-only)<br>1(Read-write)                                                            |
| <b>Default</b>      | 0                                                                                        |

### **cfgVFlashPartitionAttachState (Read/Write)**

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| <b>Description</b>  | Displays whether the partition is attached or detached. |
| <b>Legal Values</b> | 1 (Attached)<br>0 (Detached)                            |
| <b>Default</b>      | 0                                                       |

# Deprecated Commands, Groups, and Objects

This section provides information about the deprecated RACADM subcommands, groups, and objects in the current release. Few commands, groups, or objects are deprecated in RACADM either due to a new command or object replacing the functionality of an existing command or object, or the feature is no longer supported.

For the deprecated command or object:

- If you run the `racadm help` command, the deprecated command is not displayed in the command list.
- If you run the `racadm help <deprecated command name>`, then the following information is displayed:

```
ATTENTION: <command name> is a deprecated command!
```

```
While execution of this command will still be successful we strongly encourage you to use the new functionality.
```

```
The functionality of this command is now covered by <list of new functionality>.
```

```
Type "racadm help <new command name>" to learn more.
```



**NOTE:** This information is displayed only for iDRAC6 on Rack and Tower servers and is not displayed for iDRAC6 Enterprise on Blade servers.

- If you run a deprecated command, it works if the feature is supported. If the feature is not supported, an error is not returned.
- If you run the `racadm getconfig -h` command, the deprecated group is not displayed in the results.

- If you query a deprecated group or object, then the values are returned.
- If you try to configure a deprecated group or object, the configuration succeeds.
- If you request a group that contains a deprecated object, the deprecated object is not displayed in the results.

Table 4-1 lists the RACADM subcommands deprecated in the current release.

**Table 4-1. RACADM Deprecated Subcommands**

| <b>Subcommand</b> | <b>Replaced With</b> |
|-------------------|----------------------|
| vmkey reset       | vflashsd initialize  |

Table 4-2 lists the RACADM groups and objects deprecated in the current release.

**Table 4-2. RACADM Deprecated Groups and Objects**

| <b>Group/Object</b>  | <b>Replaced With</b>    |
|----------------------|-------------------------|
| cfgVirMediaKeyEnable | cfgVFlashSDEnable       |
| cfgSDWriteProtect    | cfgVFlashSDWriteProtect |

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