



iDRAC Service Module - iDRAC Access via Host Operating System

This White Paper provides information about the usage and troubleshooting of iDRAC Access via Host Operating System feature in iDRAC Service Module v2.3 or later.

Dell Engineering
January 2017

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Revisions

Date	Description
July 2016	Initial release
December 2016	Revised for iDRAC Service Module release 2.4.0

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Executive summary

The Dell Integrated Remote Access Controller (iDRAC) Service Module is a lightweight systems management application installed on a physical Host operating system (OS) of a managed server.

iDRAC Service Module works as a system management application for Dell's Out of Band (OOB) system management processor such as the iDRAC. Installing iDRAC Service Module v2.3 or later allows you to access iDRAC remotely through the host OS without configuring the iDRAC explicitly.

This feature enables you to access iDRAC using the iDRAC supported web interfaces, such as, iDRAC GUI, WSMAN, Redfish and remote racadm. You can continue to use the same iDRAC credentials; if it was configured earlier. If not; you can connect to iDRAC using the default iDRAC credentials.

Warning: Default iDRAC user credentials can be a security threat while using "iDRAC Access via Host OS" feature. It is advisable to change the default iDRAC user credentials before enabling and using this feature.

This feature will be disabled in a typical iSM installation. Administrators should perform a custom install and explicitly enable this feature. However, this feature status can be enabled or disabled post iSM installation using iSM provided interfaces which are detailed in the subsequent sections that follow in this document.

Prerequisites for accessing iDRAC via Host OS

- iDRAC Service Module should be installed on the server Operating System.
- The iDRAC Service Module should be running.
- *iDRAC Access via Host OS* feature should be enabled.

Supported Dell Servers or Platforms

- All the Dell 12G PowerEdge servers or later.

Supported Operating Systems

- All Windows and Linux OS variants supported by iDRAC Service Module 2.3.0 version.

Limitations

- When the user accesses the iDRAC consoles using iDRAC Access via Host OS; audit trails on the LCL does not capture the actual enduser. Hence there is another log added by iSM to explain the context of iDRAC Access via Host OS with the end user address.
- Virtual console and Virtual Media are not supported over iDRAC Access via Host OS.
- iDRAC user needs to be configured.
- Asynchronous operations are not supported over iDRAC Access via Host OS only Config. (i.e iDRAC network not configured)



- SNMP traps (unless iDRAC Service Module is supporting this via “Receive SNMP Trap from OS” feature).
- Email notifications.
- WSMAN eventing.
- iDRAC Auto update.
- The iDRAC OS-to-iDRAC Passthru over USBNIC being a 10Mbps channel, iDRAC Access via Host OS may incur delays to operations requiring high bandwidth; such as LC updates.
- Console iDRAC integration (OME/OMPC/Tejas etc..) is not supported over iDRAC Access via Host OS in this release.
- Only IPV4 addresses are supported.



1 Initial Installation

This feature will be disabled on a typical or default iDRAC Service Module installation. The user should perform a custom install and enable this feature explicitly to be able to configure and use the same. The Microsoft IP Helper Services should be running for this feature to function.

Enabling this feature will expect a port number using which user can connect to iDRAC. From 2.4.0 release onwards, iDRAC Service Module shall use the IANA granted and certified port number "1266" for this feature by default. However, this port number can be overridden by the user to a different port number which is unique.

This port number will be the listening port number on the Host OS. In other words, the OS shall listen for connections on this port which will be redirected to the corresponding iDRAC interface. This configuration of redirecting the connection to iDRAC is done by iSM. Any conflict in this listen port number should be resolved by the administrator.

Upon adding a valid listen port number; iSM will create a new In-Bound firewall rule (In windows **referred as OS2iDRAC**). The listen port number will be added to the firewall rule in the Host OS .

This firewall rule will be enabled by the iDRAC Service Module when the feature is enabled.



2 iDRAC Access via Microsoft Windows Operating Systems

If the feature is enabled using the custom install from the msi; then an entry into the Network Address Translation rules is created which can be viewed using the following command. 1266 will be set as the default listening port number if user has not modified.

netsh interface portproxy show all

```
Listen on ipv4:      Connect to ipv4:
Address   Port   Address   Port
-----
*         1266   169.254.0.1  443
```

Also, an outbound firewall rule by name "OS2iDRAC" is created by iSM. The status of the firewall will be enabled by iDRAC Service Module starting release version 2.4.0. No action is required by the user here. The following command shows the status of the firewall rule.

netsh advfirewall firewall show rule name=OS2iDRAC

```
Rule Name:          OS2iDRAC
-----
Enabled:            No
Direction:         In
Profiles:          Domain,Private,Public
Grouping:
LocalIP:           Any
RemoteIP:          10.94.38.1/32
Protocol:          TCP
LocalPort:         1266
RemotePort:        Any
Edge traversal:     No
Action:            Allow

Ok.
```



The firewall rule indicates the port number used during the installation time or user modified port number using the iDRAC Service Module provided interfaces.

To access the iDRAC GUI, use the following format in the browser: *https://<host-name or OS-IP>:1266/login.html*

Where:

Host-name is the complete host-name of the server host OS where iDRAC Service Module is installed and configured for iDRAC access via OS. In the absence of hostname, the OS IP address can be used.

1266 is the host OS port number for accessing the iDRAC through host OS. iDRAC Service Module configures this port, such that all incoming connections is redirected to iDRAC https port (default port is 443). The iDRAC https port number can be modified by the administrator using any of the iDRAC supported interfaces such as racadm, GUI, WSMAN, and so on. iDRAC Service Module is resilient for this change and reconfigures the iDRAC access rules seamlessly without any user intervention.

Remote Wsman: winrm e http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_CPUView -u:<username> -p:<passwd> -r:https://<Host-Name or IP>:<PortNumber>/wsman -a:basic -encoding:utf-8 -skipCACheck -skipCNCheck

Remote racadm: racadm -r <Host Name or IP>:<port#> -u <username> -p <passwd> getsysinfo

iDRAC Service Module provides interfaces to configure this feature runtime.

1. Microsoft Windows PowerShell

2.1 PowerShell configuration

If this feature is already configured, it can be disabled or modified using the PowerShell Cmdlet with the corresponding options. Also from iDRAC Service Module 2.4.0 version, the present status of this feature can be obtained.

Pre-requisites for cmdlet

1. Microsoft .NET Framework 64-bit 2.0 or later version.
2. PowerShell 1.0 or later.
3. ExecutionPolicy should be AllSigned or Unrestricted.
 - a. Example: To view the current ExecutionPolicy, PS:\> Get-ExecutionPolicy.
 - b. To modify: PS:\> Set-ExecutionPolicy AllSigned or Unrestricted.

The cmdlet: **Enable-iDRACAccessHostRoute**

NOTE: In Windows Server 2012 and later; an OS provided help for the cmdlet is available which can be viewed using PS:\> **Get-Help Enable-iDRACAccessHostRoute**

This displays the list of options available and its usage.



The available options are:

1. **Status:** The values are not case sensitive. This parameter is mandatory.
Values Range {TRUE, FALSE}
2. **Port:** This is the port number and is similar to what user is prompted for during iDRAC Service Module installation. This parameter is mandatory, if the previous parameter "Status" is TRUE. If the Status value is FALSE; then the rest of the parameters can be ignored. If the new port number entered is already configured for this feature; then user is requested to enter a different port number. The existing OS2iDRAC in-bound firewall rule is overwritten with this new port number settings. There-after user have to connect to iDRAC using this new port number.
Values Range {1024 to 65535}
3. **IPRange:** This parameter is optional irrespective of the other two parameters. This depicts a range of source IP addresses that are permitted to connect to iDRAC via the Host OS. The IP address range format is CIDR format which is a combination of IP Address and Subnet Mask. Any other client outside this specified range is not allowed to connect to iDRAC via Host OS.
Example: 10.10.10.10/24

This parameter, if specified is added to the Scope variant of the OS2iDRAC firewall rule.

NOTE: Ensure valid and reachable IP Range is specified. Else, iDRAC will not be accessible.

Sl. No.	OS2iDRAC configuration type	Example Command/Syntax
1.	Enable the feature	Enable-iDRACAccessHostRoute -status true -port 1234
2.	Listen Port Modification	Enable-iDRACAccessHostRoute -status true -port 2345
3.	Adding IP Range or allowed IPs	Enable-iDRACAccessHostRoute -status true -port 2345 -iprange <10.10.10.3/24>
4.	Disabling the feature	Enable-iDRACAccessHostRoute -status false

Any modification to the listen port number can modify the firewall rule "OS2iDRAC" and it can be disabled. This must again be reviewed by the administrator and enabled as necessary.

NOTE: Disabling this feature removes the OS2iDRAC firewall rule from the list.

NOTE: Enabling or disabling this feature can create an audit log entry in the OS logs (Event Viewer.)

Like the PowerShell way of specifying IPRange values, iDRAC also supports Network Security to allow restricted clients to connect to iDRAC. If the allowed IP Range is already configured in iDRAC before iSM installation; then iSM shall configure the same on the Host OS as well for iDRAC Access via Host OS feature. Any subsequent modification of IP Range in iDRAC shall not take effect. In other words, the IP range specified using the iDRAC Service Module provided command line interfaces take precedences over the iDRAC IP Range Setting.



3 iDRAC Access via Linux Operating Systems

Upon adding a valid listen port number; iSM will add DNAT and SNAT rules which will redirect the connections on the user configured listening port to iDRAC. If the listen port number is not specified, then iSM shall configure this feature using the IANA granted port number "1266." There is an additional NAT rule added in the PREROUTING Chain to block the incoming connections on the listening port. The administrator is expected to validate the newly added NAT rules and delete the blocking rule in order to activate iDRAC access feature via host OS IP.

The blocking NAT rule is configured as mentioned below.

```
# iptables -t nat -L
```

```
target    prot opt source          destination
```

```
RETURN    tcp -- anywhere        anywhere        tcp dpt:<listen-port>
```

The rule can be removed with the following command:

```
iptables -t nat -D PREROUTING -p tcp --dport <listen-port> -j RETURN
```

These are the basic configurations required to access iDRAC interfaces through the OS. To access the iDRAC GUI, use the following format in the browser: **<https://<host-name or OS-IP>:<listen-port>/login.html>**

NOTE: For details on how to configure SNAT and DNAT rules, refer:

https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/4/html/Security_Guide/s1-firewall-iptables-fwd.html. The configuration may vary based on the Linux distribution used.

3.1 Configuration using Linux Command line

The administrator has the option of enabling or disabling this feature using the iDRAC Service Module provided Linux Command Line Executable file . Also if this feature is already configured, it can be disabled or modified using the Command Line.

The Command Line Executable Name: **Enable-iDRACAccessHostRoute**.

The command

```
# /opt/dell/srvadmin/iSM/bin/Enable-iDRACAccessHostRoute
```

Usage

```
./Enable-iDRACAccessHostRoute <Enable-Flag> [ <source-port> <source-IP-range/source-ip-range-mask>]
```

Where:

<Enable-Flag>: Possible values are 0 for Disable and 1 for Enable

<source-IP-range>: should be in the format of <IP-Address/subnet-mask>. For Example, 10.95.146.98/24



NOTE1: If <Enable-Flag> value is 0, the parameters <source-port>, <source-IP-range/source-ip-range-mask> is not required.

NOTE2: If <Enable-Flag> value is 1, then the <source-port> is Mandatory. <source-IP-range> <source-ip-range-mask> parameters are optional.

NOTE3: Currently, only IPV4 addresses are supported for this feature.

Examples

1. To disable the feature:

```
[root@MyDevBox bin]# /opt/dell/srvadmin/iSM/bin/Enable-iDRACAccessHostRoute 0
```

iDRAC access via Host OS feature configuration has been disabled.

After the feature is disabled, iDRAC Service Module deletes all the newly added DNAT and SNAT rules.

2. To Enable the feature or to change the listening port number:

```
[root@MyDevBox bin]# /opt/dell/srvadmin/iSM/bin/Enable-iDRACAccessHostRoute 1 9999
```

iDRAC access via Host OS feature configuration has been updated successfully. Please verify and enable the Firewall rule for OS2iDRAC feature to work. You can access iDRAC using the port number specified. For example, use <https://<hostname>:5678/login.html> to access the iDRAC web interface.

The feature is enabled and the new port number **9999** is configured as the listen-port number. Here the port number 9999 will be overriding the default port number of 1266.

The newly added NAT rules are:

```
[root@MyDevBox bin]# iptables -t nat -L
```

Chain PREROUTING (policy ACCEPT)

target	prot	opt	source	destination	
RETURN	tcp	--	anywhere	anywhere	tcp dpt: 9999
DNAT	tcp	--	anywhere	anywhere	tcp dpt: 9999 to:169.254.0.1:443

Chain POSTROUTING (policy ACCEPT)

target	prot	opt	source	destination	
SNAT	tcp	--	anywhere	169.254.0.1	tcp dpt:https to:169.254.0.2

3. To Enable the feature with IPRange setting:

```
[root@MyDevBox bin]# /opt/dell/srvadmin/iSM/bin/Enable-iDRACAccessHostRoute 1 9999  
<10.10.10.10>/16
```

iDRAC access via Host OS feature configuration has been updated successfully. Please verify and enable the Firewall rule for OS2iDRAC feature to work.

You can access iDRAC using the port number specified. For example, use <https://<hostname>:9999/login.html> to access the iDRAC web interface. Now the feature is enabled with listen port number 9999 and only for the Source IP addresses in the range 10.10.10.10/16.

The newly added NAT rules are:

```
[root@MyDevBox bin]# iptables -t nat -L
```



```
Chain PREROUTING (policy ACCEPT)
target  prot opt source          destination
RETURN  tcp  -- anywhere       anywhere       tcp dpt:5678
DNAT    tcp  -- 10.11.0.0/16 anywhere       tcp dpt:5678 to:169.254.0.1:443
```

```
Chain POSTROUTING (policy ACCEPT)
target  prot opt source          destination
SNAT    tcp  -- anywhere       169.254.0.1   tcp dpt:https to:169.254.0.2
```

4. Starting iSM v2.4.0, user can get the present status of this feature configuration.
[root@MyDevBox bin]# **/opt/dell/srvadmin/iSM/bin/Enable-iDRACAccessHostRoute get-status**



4 Troubleshooting and Recovery

4.1 Failure to access iDRAC via Host OS due to Iptables holding the lock in Linux OS

Symptoms

While trying to access iDRAC page via Host OS, it fails to connect to iDRAC page and throws the error "The site can't be reached."

Reason

When executing, Iptables acquires an internal lock and if multiple iptables commands are run simultaneously, one of the commands might fail as the other command had acquired the lock already. The iDRAC Access via Host OS feature fails to configure when there is an iptables command running which already have acquired the lock.

Recovery Action

By verifying if the SNAT and DNAT rules are configured with the given port, it can be confirmed if the iDRAC Access via Host OS feature is configured properly or not.

```
[root@MyDevBox bin]# iptables -t nat -L
Chain PREROUTING (policy ACCEPT)
target prot opt source destination
DNAT tcp -- 10.10.0.0/16 anywhere tcp dpt:9999 to:169.254.0.1:443

Chain POSTROUTING (policy ACCEPT)
target prot opt source destination
SNAT tcp -- anywhere 169.254.0.1 tcp dpt:https to:169.254.0.2
```

If the DNAT and SNAT rules were not added, the other instances of iptables command needs to be stopped and using CLI the feature needs to be reconfigured again.

4.2 Failure to access iDRAC via Host OS due to disabling of IP Forwarding in Linux kernel

Symptoms

While trying to access iDRAC page via Host OS, it fails to connect to iDRAC page and displays the error "The site can't be reached."

Reason

IP Forwarding is a concept to make Linux based machines to send data from one network to other. In order to forward the connection request to iDRAC, the host OS should enable IP Forwarding in the kernel.

If it is disabled iDRAC Access via Host OS feature fails.

Recovery Action

It can be enabled using the command

"echo 1 > /proc/sys/net/ipv4/ip_forward"



4.3 Failure to access iDRAC via Host OS due to a Firewall rule that is configured by some other application to block the listen port

Symptoms

While trying to access iDRAC page through Host OS, it fails to connect to iDRAC page and throws the error "The site can't be reached."

Reason

There are scenarios where there is other firewall rules from other applications that has blocked the listen port that is configured for iDRAC Access via Host OS.

Recovery Action

The port has to be unblocked or a new port has to be configured for this feature to work. If firewall is enabled after iDRAC Access via host OS configuration then re-configure the iDRAC Access via Host OS with valid port. For more information on enabling iDRAC via Host OS, refer the **Configuration using Linux Command line** section.

4.4 Failure to access iDRAC via Host OS due to a Firewall rule is configured to block the IP

Symptoms

While trying to access iDRAC page through Host OS, it fails to connect to iDRAC page and displays the error "The site can't be reached."

Reason

There are scenarios where there is other firewall rules from other applications or administrator that has blocked the Source IP that is configured for accessing iDRAC via Host OS.

Recovery Action

The IP Address has to be unblocked for accessing the iDRAC from that Source IP.

4.5 Failure to access iDRAC via Host OS during iDRAC reset

Symptoms

While trying to access iDRAC page via Host OS, it fails to connect to iDRAC page and displays the error "The site can't be reached."

Reason

When iDRAC reset is in progress, it fails to access the iDRAC via Host OS until it comes up.

4.6 Failure to access iDRAC via Host OS while iDRAC is unavailable

Symptoms

While trying to access iDRAC page via Host OS, it fails to connect to iDRAC page and displays the error "The site can't be reached."

Reason

When the iDRAC Firmware update is in progress, accessing iDRAC via Host OS fails. Only after the iDRAC comes up, the user is able to access the iDRAC.



4.7 Failure to access iDRAC via Host OS due to iDRAC Network Security Settings

Symptoms

While trying to access iDRAC page via Host OS, it fails to connect to iDRAC page and displays the error "The site can't be reached."

Reason

After a successful first time configuration of "iDRAC Access via Host OS" using the iDRAC Service Module webpack; the iDRAC interfaces may not be reachable due to default NetworkSecurity settings in iDRAC irrespective of whether default NetworkSecurity settings is enabled or not.

Recovery Action

This can be overcome by reconfiguring "iDRAC Access via Host OS" using the PowerShell cmdlet or Linux CLI. The IPRange can be set using the cmdlet as shown in the example command below:

On Microsoft Windows:

```
Enable-iDRACAccessHostRoute -status true -port 12345 -IPRange 10.94.146.5/24
```

On Linux OS es:

```
./Enable-iDRACAccessHostRoute 1 12345 10.94.146.5/24
```

The IP Range value must follow the CIDR format.

4.8 Failure to access iDRAC via Host OS due to iptables filter FORWARD rule on RHEL 7.2 and SLES12 SP1 OS es

Symptoms

While trying to access iDRAC page through Host OS, it fails to connect to iDRAC page and throws the error "The site can't be reached."

Reason

After a successful first time configuration of "iDRAC Access via Host OS"; the iDRAC interfaces may not be reachable due to the iptables filter FORWARD rule created by the FIREWALLD.SERVICE in the Host OS to reject all packets by default. The issue is only observed in RHEL 7.2 and SLES12 SP1 OSes.

Recovery Action

If the FORWARD chain is configured to DROP/REJECT packets for all or the iDRAC USBNIC IP/iDRAC Secure port (e.g.169.254.0.1/ 443), the administrator have to create a new FORWARD chain to allow packets destined for iDRAC IP and port. You can create the new FORWARD chain by using the following command:

```
iptables -N OS2iDRAC  
iptables -I FORWARD -j OS2iDRAC
```



```
iptables -A OS2iDRAC -p tcp -d 169.254.0.1 --dport 443 -j ACCEPT
iptables -A OS2iDRAC -p tcp -i idrac -s 169.254.0.1 -j ACCEPT
```

(By Default, the iDRAC USBNIC IP is 169.254.0.1, iDRAC Secure Port is 443). The iDRAC USBNIC IP and iDRAC Secure Port details can be obtained from the file `/opt/dell/srvadmin/iSM/etc/ini/dcos2idrac.ini` as mentioned below.

```
connect_address=169.254.0.1
connect_port=443
```

4.9 iDRAC Access via Host OS feature can't be enabled post installation if it is not included manually during installation using webpack

Symptoms

While trying to access iDRAC page via Host OS, it fails to connect to iDRAC page and displays the error "The site can't be reached."

Reason

While installing iDRAC Service module using the `setup.sh` provided as part of the Linux webpack and if the user does not select the "iDRAC Access Via Host OS" feature to install, it is observed that you cannot enable the feature post installation.

Recovery Action

Modify the iDRAC Service Module by running `setup.sh` installer script, with the option to enable "iDRAC Access via Host OS" feature as mentioned below.

```
./setup.sh -i -O --port=<listen-port-no>
```

Where:

`--port` is a mandatory parameter. This port number is used to listen for connections/requests to iDRAC on the Host OS, in order to forward all connections or requests to iDRAC.

Accepted port number range is 1024 to 65535. You must ensure that a unique port number is assigned. This issue is not observed when the iDRAC Service Module is installed using the other alternative methods such as iDRAC Service Module DUP, yum, and rpm packages. The feature can be configured using the "Enable-iDRACAccessHostRoute" CLI.

4.10 Failure to access iDRAC via Host OS on Microsoft Windows although the listen port and firewall are configured

Symptoms

While trying to access iDRAC page via Host OS, it fails to connect to iDRAC page and displays the error



"The site can't be reached."

Reason

The Microsoft Windows service "IP Helper" is required for this feature to function. Ensure this service is running on your Managed Node, where iDRAC Service Module is installed.

Recovery Action

If the "IP Helper" service is stopped, start the "IP Helper" service on the Managed Node where iDRAC Service Module is installed.

4.11 Failure to access iDRAC via Host OS as an Active Directory user over LDAP when iDRAC is not connected

Symptoms

While trying to access iDRAC page via Host OS, it fails to connect to iDRAC page and throws the error "The site can't be reached."

Reason

iDRAC network should be configured for authentication to take place over LDAP.

Recovery Action

Either the iDRAC dedicated port can be configured or can login as local user or guest.

4.12 Failure to access iDRAC via Host OS after performing an iDRAC factory reset operation such as racadm racresetcfg

Symptoms

While trying to access iDRAC page via Host OS, it fails to connect to iDRAC page and throws the error "The site can't be reached."

Reason

The OS to iDRAC passthru channel will be disabled in factory mode and hence iSM shall stop running on the Host OS. This should be enabled manually so that iSM service will start and reconfigure the iDRAC Access via Host OS again.

Recovery Action

Enable the OS to iDRAC Passthru channel in iDRAC.

Example using racadm cli command: `racadm set idrac.os-bmc.adminstate 1`

