

**Active Fabric Manager (AFM) Plug-in for VMware  
vCenter  
Virtual Distributed Switch (VDS) CLI Guide**



# Notes, Cautions, and Warnings



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



**CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



**WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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# Configuring the AFM Plug-in for VMware vCenter as a Virtual Appliance

You can deploy the Active Fabric Manager (AFM) plug-in as a virtual appliance on a VMware ESX virtual machine (VM). The instructions in this document assume you have already installed and configured an AFM-VDS or VDS host where you plan to run the AFM VDS CLI. For additional information about installing and configuring the ESX virtual host machine, consult the VMware documentation.


## AFM Hardware Requirements

Disk Space	1TB 7.2K RPM SATA 3.5 Hot Plug Hard Drive
System Type	64-bit operating system
Processor	Intel Xeon E5620 2.4Ghz, 12M Cache, Turbo, HT, 1066MHz Max Memory
Memory	32GB Memory (8x4GB), 1333MHz Dual Ranked LV RDIMMs for two processors, Advanced ECC


## Virtual Appliance Requirements

The AFM plug-in runs as a virtual appliance. It requires the following software to host the solution:

- VMware vSphere Hypervisor (ESXi) 5.0 and higher (must meet virtual appliance, port access, and listening port requirements)


 **NOTE:** VMware vCenter is required for high availability (HA) and fault tolerance (FT).

## Deploy the OVF with HA and FT

 **NOTE:** HA is not required. However, Dell Networking strongly recommends a dual-server configuration with HA for resiliency.

The following are required to implement HA and FT using a VMware ESX VM:


- VMware vCenter 5.0 Standard License
- ESXi 5.0 Enterprise Plus License
- Internet small computer system interface (iSCSI) or Fiber Channel Central Storage
- Shared storage for the open virtualization format (OVF)

 **NOTE:** By default, the AFM VM central processing unit (CPU) is set to 2. To use the HA feature, change the virtual CPU to 1.

## Deploy the OVF without HA and FT

The following are required to deploy the AFM plug-in without the HA/FT solution, using a VMware ESX VM:


- VMware ESXi 5.0 Open Source License
- Servers (rack or blade switch)
- Shared storage for the OVF

 **NOTE:** By default, the AFM VM CPU is set to 2.

## Deploy the OVF with HA

When you deploy the AFM plug-in with HA only using a VMware ESX VM, the requirements are as follows:

- VMware ESXi 5.0 Open Source License
- Shared storage for the OVF

 **NOTE:** By default, the AFM plug-in VM CPU is set to 2. To use the HA feature, change the virtual CPU to 1.

## Port Usage

The following table lists the default ports used by the VDS CLI services. To troubleshooting connectivity issues with the AFM plug-in server, use the following table:

**Table 1. Ports used for AFM VDS CLI**

Port	Description
20 & 21	FTP
22	SSH and SCP (communication to switches and CLI access to AFM VDS server)
23	Telnet (communication to switches)
123	NTP

## Disabling VMotion on an ESX/ESXi Host


For information on how to disable VMotion on an VMware ESX/ESXi host, see the VMware documentation at [http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=1010376](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1010376) or perform a search in the VMware knowledge using the key words “Disabling VMotion on an ESX/ESXi host.”

# Deploying the OVF Template



You can deploy the open virtualization format (OVF) template with the VMware ESX virtual machines.

## Deploy the OVF Template Using a VMware ESX Virtual Machine

Before you can configure and use the AFM plug-in, deploy the provided OVF template on a VM on your ESX/ESXi server.

 **NOTE:** By default, the AFM plug-in VM CPU is set to 2. To use the HA, FT, or both, change the virtual CPU to 1.

**To deploy the AFM plug-in OVF with the vSphere client:**

1. Start the VMware vSphere 5.1 client on your ESX server or vCenter.
2. Copy the AFM plug-in OVF template files from the directory where you have stored the AFM package to the location that the vSphere client can access it.
  -  **NOTE:** If you are using HA or HA with FT, make sure that the OVF uses shared storage. To enable FT, select the virtual host and then right click to select the `Fault Tolerance > Turn On Fault Tolerance` option.
3. In the vSphere client, select `File > Deploy OVF Template`.
4. Choose the `Deploy from file` option and browse to where you copied the AFM plug-in OVF file.
5. Select the **AFMVDCLI.2.0.0.ovf** file and then click the **Next** button.
  -  **NOTE:** To ensure that the AFM plug-in has the required disk space for all storage to be immediately allocated, select the `Thick Provision Lazy Zero` option on the **Disk Format** screen.
6. Start the VM.





## Introduction

The AFM plug-in for VMware vCenter virtual distributed switch (VDS) feature allows you to configure a virtual switch using a CLI. The application communicates with the VMware vCenter for VDS information and provides CLI access to VDSs in virtualized infrastructures.

The plug-in supports secure shell (SSH) access to the CLI, which is based on the Dell Networking operating system (OS).

## VDS CLI Requirements

- vCenter 5.1 or later
- 40 GB of disk space
- 7.2K RPM SATA 3.5 Hot Plug Hard Drive
- 64-bit operating system
- Intel Xeon E5620 2.4Ghz processor, 12M Cache, Turbo, HT, 1066MHz Max Memory
- 4 GB memory, 1333MHz Dual Ranked LV RDIMMs for two processors, Advanced ECC

## Important Points to Remember

- At least one Ethernet card is required. By default, the plug-in uses `eth0`.
- The default username is `vadmin` and the default password is `vadmin123`.
- This feature is not available in the AFM graphic user interface (GUI).
- You can only manage VDS and its entities using the VDS CLI. You cannot manage any other vCenter components using the VDS CLI.
- VDS is managed separately and is not considered part of the network fabric.
- You cannot use the VDS CLI to update your vCenter credentials.
- You can use the administrator account to create user accounts, but users with view-only CLI privileges cannot create user accounts.
- All commands are lower-case. VMware entities are case-sensitive.




## Configuring VDS CLI

During AFM VDS CLI setup, a CLI-based wizard assists you in configuring the VMware vCenter after OVF deployment. The virtualization setup wizard launches each time the administrator logs in until you provide the required configuration information. To change configuration information, you can launch this wizard at any time using the `wizard` command in **CONFIGURATION** mode. To create an administrative account, you must provide your vCenter credentials.

### Using the Dynamic Host Configuration Protocol (DHCP)

To configure the AFM plug-in for VMware vCenter VDS command line interface (CLI) using DHCP:


1. Start the VDS CLI session using SSH.
2. Log in using your username and password.
  - The default username is `vadmin` and the default password is `vadmin123`.

After you enter your username and password, the software checks for a network connection. If you have configured a connection, no further action is needed. If you have not configured a connection, you are prompted for the connection information.
3. Enter `y` to use DHCP then press `Q` to continue the configuration process.
4. For a dual-server configuration using HA, enter two different IP addresses for the primary and backup servers. For a single-server configuration without HA, enter a single IP address.
  -  **NOTE:** HA is not required. However, Dell Networking strongly recommends a dual-server configuration with HA for resiliency.
5. Enter the IP or URL for the search domain then press `Q` to continue the configuration.
 

The software checks for existing vCenter credentials. If you have configured the vCenter credentials, no further action is needed. If you have not configured the vCenter credentials, you are prompted for the vCenter credentials.
6. Enter your vCenter credentials.
 

You must enter a valid vCenter URL, username, and password. For security, the password is hidden.
7. **OPTIONAL:** Create a new user account by creating a unique username and password.
 

If there are no existing accounts, the software prompts you to create a new user account.



  -  **NOTE:** To confirm the password, enter it twice.

### Using a Static IP

1. Start the VDS CLI session using SSH.
2. Log in using your username and password.
 


The default username is `vadmin` and the default password is `vadmin123`.

After you enter your username and password, the software checks for a network connection. If you have configured a connection, no further action is needed. If you have not configured a connection, you are prompted for the connection information.
3. Enter `n` to use a static host then press `Q` to continue the configuration process.

4. For a single-server configuration without HA, enter a single IP address. You cannot configure dual servers for HA using a static IP address.  
 **NOTE:** HA is not required. However, Dell Networking strongly recommends a dual-server configuration with HA for resiliency.
5. Enter the gateway router IP address (the network access point).
6. Enter the network mask (the routing prefix).
7. Enter the IP or URL for the search domain then press **Q** to continue the configuration.  
The software checks for existing vCenter credentials. If you have configured the vCenter credentials, no further action is needed. If you have not configured the vCenter credentials, you are prompted for the vCenter credentials.
8. Enter your vCenter credentials. You must enter a valid vCenter URL, username, and password.  
For security, the password is hidden.
9. **OPTIONAL:** Create a new user account by creating a unique username and password. If there are no existing accounts, the software prompts you to create a new user account.  
 **NOTE:** To confirm the password, enter it twice.


# Using VDS CLI

The following list describes the VDS CLI modes:


 **NOTE:** You can enter a question mark after the command prompt in any mode to view a list of available commands. You can also enter the `exit` command to exit the current mode (or the application, if you are in **DEFAULT** mode).

- **DEFAULT** mode — This is the default mode when you log in. In **DEFAULT** mode, the command prompt ends with `>`. The following commands are available in **DEFAULT** mode:

- [enable](#)
- [vds](#)
- [exit](#)

 **NOTE:** If you use the `exit` command in **DEFAULT** mode, the application closes.

- **ENABLE** mode — This mode enables additional commands, including the `config` command. To enter **ENABLE** mode, use the `enable` command. In **ENABLE** mode, the command prompt ends with `#`.

 **NOTE:** No password is required to enter **ENABLE** mode.

The following commands are available in **ENABLE** mode:

- [config](#)
- [passwd](#)
- [settings](#)
- [show vds](#)
- [vds](#)
- [wizard](#)
- [exit](#)

- **CONFIG** mode — This mode allows you to configure VDS settings. To enter **CONFIG** mode, use the `config` command. In **CONFIG** mode, the command prompt ends with `(config) #`.

The following commands are available in **CONFIG** mode:

- [config](#)
- [find ip](#)
- [find mac](#)
- [find vm](#)
- [port](#)
- [portgroup](#)
- [show interface](#)
- [show interface brief](#)
- [show lldp](#)
- [show lldp interface](#)
- [show netflow](#)

- [show portgroup](#)
- [show span](#)
- [show vlan](#)
- [show vlan summary](#)
- [show vlan vlan-id](#)
- [exit](#)
- **VDS mode** — This mode allows you to configure the virtual switch. To enter **VDS** mode, use the `vds` command. In **VDS** mode, the command prompt ends with `VDS - [switch-name]#`, where *switch-name* is the name of the switch.



**NOTE:** To enter **VDS** mode, enter **CONFIG** mode, then use the `vds` command.

To enter **VDS CONFIG** mode, enter **VDS** mode, then use the `config` command.

The following commands are available in **VDS CONFIG** mode:

- [netflow port](#)
- [netflow portgroup](#)
- [port](#)
- [portgroup](#)
- [span](#)
- [exit](#)
- **PORT** mode — This mode allows you to configure the specified port. To enter **PORT** mode, use the `port` command. In **PORT** mode, the command prompt ends with `VDS - [switch-name]/Port- [number]#`, where *switch-name* is the name of the switch and *number* is the port number.

The following commands are available in **PORT** mode:

- [shutdown](#)
- [exit](#)
- **PORTGROUP** mode — This mode allows you to configure the specified port group. To enter **PORTGROUP** mode, use the `portgroup` command. In **PORTGROUP** mode, the command prompt ends with `VDS - [switch-name]/PortGroup- [number]#`, where *switch-name* is the name of the switch and *number* is the port group number.

The following commands are available in **PORTGROUP** mode:

- [shutdown](#)
- [exit](#)

To use the VDS CLI:

1. Log in using your user account.
2. Enter the `enable` command to access the **ENABLE** mode commands and other command modes.
3. Enter the `vds` command to enter **VDS** mode.
4. Enter the `config` command to enter **CONFIG** mode.

# VDS CLI Commands

The following is a list of the VDS CLI commands:

 **NOTE:** You can enter a question mark after the command prompt in any mode to view a list of available commands.

## config

Enter **CONFIGURATION** mode.

<b>Syntax</b>	<code>config</code>
<b>Command Modes</b>	<b>ENABLE</b> mode VDS mode
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command. <b>Version 2.0</b> Introduced on the AFM VDS.
<b>Usage Information</b>	To configure <b>VDS</b> mode commands such as <code>span</code> , <code>netflow</code> , and <code>shutdown</code> , use the <b>VDS</b> command, then use the <code>config</code> command.

## enable

Enter **ENABLE** mode.

<b>Syntax</b>	<code>enable</code>
<b>Command Modes</b>	<b>DEFAULT</b> mode
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command. <b>Version 2.0</b> Introduced on the AFM VDS.

## exit

Exit the current mode (or exit the application if in **DEFAULT** mode).

<b>Syntax</b>	<code>exit</code>
<b>Command Modes</b>	<b>DEFAULT</b> mode — exit application All other modes — return to the previous mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.  
The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## find ip

Display a list of ports and port groups associated with a specified IP address.

**Syntax** `find ip [ip-address]`

**Parameters** *ip-address* Enter an IP address to view a list of the associated ports and port groups.

**Command Modes** VDS mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.  
The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## find mac

Display a list of ports and port groups associated with a specified MAC address.

**Syntax** `find mac-address [mac-address]`

**Parameters** *mac-address* Enter a MAC address to view a list of the associated ports and port groups.

**Command Modes** VDS mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.  
The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## find vm

Display a list of ports and port groups associated with a specified virtual machine.

**Syntax** `find vm [vm-name]`

**Parameters** *vm-name* Enter a virtual machine name to view a list of the associated ports and port groups.



<b>Command Modes</b>	VDS mode
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command.
	<b>Version 2.0</b> Introduced on the AFM VDS.

## netflow port

Enable or disable traffic flow for the specified port.

<b>Syntax</b>	<code>[enable   disable] netflow port [port-number]</code>	
<b>Parameters</b>	<b>enable</b>	Enable traffic flow.
	<b>disable</b>	Disable traffic flow.
	<b><i>port-number</i></b>	Enter the number of the port.

<b>Command Modes</b>	VDS CONFIG mode
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command.
	<b>Version 2.0</b> Introduced on the AFM VDS.

**Usage Information**            You must configure the netflow collector settings before using this command.

## netflow portgroup

Enable or disable traffic flow for the specified port group.

<b>Syntax</b>	<code>[enable   disable] netflow portgroup [port-group-number]</code>	
<b>Parameters</b>	<b><i>port-group-number</i></b>	Enter the number of the port group.

<b>Command Modes</b>	VDS CONFIG mode
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command.
	<b>Version 2.0</b> Introduced on the AFM VDS.

**Usage Information**            You must configure the netflow collector settings before using this command.

# passwd

Change the password of the current user.

**Syntax** `passwd`

**Command Modes** **ENABLE** mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## Usage Information

- The new password cannot be similar to the current password or the user name.
- The new password cannot be a word found in the dictionary.

# port

Enter **PORT** mode.

**Syntax** `port <port-number>`

**Parameters** *port-number* Enter a port number to configure that port.

**Command Modes** **VDS CONFIG** mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

# portgroup

Enter **PORTGROUP** mode.

**Syntax** `portgroup <port-group-number>`  
To delete a port group, use the `no portgroup <port-group-number>` command

**Parameters** *port-group-number* Enter a port group number to configure that port group.


**Command Modes** **VDS CONFIG** mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

## settings

Configure the VDS settings, including the IP address, domain name server (DNS) information, and vCenter credentials. You can also add and delete user accounts, change passwords for other accounts, and view a list of users.

 **NOTE:** For step-by-step configuration assistance, use the `wizard` command.

**Syntax** `settings`

**Parameters** After you enter the `settings` command, enter a number from 1 to 7 to perform the specified action.

1 Configure IP Address



**NOTE:** After you change the IP address, the system restarts.

2 Configure DNS Servers

3 View or change vCenter credentials

4 View a list of users

5 Create a new user



**NOTE:** You can configure two types of accounts: administrative and user.

- The admin account allows you to view data, configure settings, and add accounts.
- The user account allows you to view data but does not allow you to configure settings or add accounts.

6 Delete a user

7 Change a password for another user

**Command Modes** **ENABLE** mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

### Usage Information

- After the settings are changed, a confirmation message is displayed. You must confirm the changes by entering `Y`.
- To retain the current settings and move to the next step in the configuration process, press `Enter`.
- To exit this command without changing any settings, enter `Q`.

**Related  
Commands**

[wizard](#)

Configure vCenter credentials using step-by-step assistance.

## show interface

Display interface details.

**Syntax** `show interface port-number`

**Parameters** *port-number* Enter the port number for the interface.

**Command Modes** VDS mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show interface brief

Display a summary of all interface information.

**Syntax** `show interface brief`

**Command Modes** VDS mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show lldp

Display the link layer discovery protocol (LLDP) information for the current VDS instance.

**Syntax** `show lldp`

**Command Modes** VDS mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show lldp interface

Display LLDP counters for the specified interface.

**Syntax** `show lldp interface uplink-key`

**Parameters**  
*uplink-key* Enter the uplink key for the interface.

**Command Modes** VDS mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show lldp neighbor interface

Display LLDP neighbors associated with a specified interface.

**Syntax** `show lldp neighbor interface uplink-key`

**Parameters**  
*uplink-key* Enter the uplink key for the interface.

**Command Modes** VDS mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show netflow

Display the current traffic configuration.

**Syntax** `show netflow`

**Command Modes** VDS mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show portgroup

Display a list of all portgroups associated with the VDS instance.

**Syntax** `show portgroup`

**Command Modes** **VDS mode**

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show portgroup port-group-name

Display detailed information for the specified port group.

**Syntax** `show portgroup port-group-name`

**Parameters** *port-group-name* Enter the port group name.

**Command Modes** **VDS mode**

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show span

Display a list of all configured spans on the VDS instance.

**Syntax** `show span`

**Command Modes** **VDS mode**

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show vds

View all current VDS instances.

**Syntax** `show vds`

**Command Modes** **ENABLE** mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

**Usage Information** To display more results, press `Enter`. To return to the command prompt, press `Q`.

## show vlan

Display all virtual local area networks (VLANs) configured in the current VDS instance.

**Syntax** `show vlan`

**Command Modes** **VDS** mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show vlan summary

Display a summary of information for all active VLANs in the current VDS instance.

**Syntax** `show vlan summary`

**Command Modes** **VDS** mode

**Command History** This guide is platform-specific. For command information about other platforms, refer to the relevant *Dell Networking Command Line Reference Guide*.

The following is a list of the AFM VDS version history for this command.

**Version 2.0** Introduced on the AFM VDS.

## show vlan vlan-id

Display detailed information for the specified VLAN.

<b>Syntax</b>	<code>show vlan vlan-id</code>	
<b>Parameters</b>	<b><i>vlan-id</i></b>	Enter the ID for the VLAN.
<b>Command Modes</b>	VDS mode	
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command.  <b>Version 2.0</b> Introduced on the AFM VDS.	

## shutdown

Disable or enable the selected port or port group.

<b>Syntax</b>	<code>shutdown</code> To enable the current port, use the <code>no shutdown</code> command.	
<b>Command Modes</b>	VDS CONFIG mode, then <ul style="list-style-type: none"><li>• <b>PORT</b> mode or</li><li>• <b>PORTGROUP</b> mode</li></ul>	
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command.  <b>Version 2.0</b> Introduced on the AFM VDS.	
<b>Usage Information</b>	To disable or enable a port, use this command in <b>PORT</b> mode. To disable or enable a port group, use this command in <b>PORTGROUP</b> mode and enter an interface range after the <code>shutdown</code> keyword.	

## span

Enable or disable spanning in the current VDS.

<b>Syntax</b>	<code>{enable   disable} span {span-name}</code>	
<b>Parameters</b>	<b>enable</b>	Enable spanning in the current VDS.
	<b>disable</b>	Disable spanning in the current VDS.
	<b><i>span-name</i></b>	Enter the name of the span.



<b>Command Modes</b>	<b>VDS CONFIG</b> mode
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command.  <b>Version 2.0</b> Introduced on the AFM VDS.

## vds


Enter **VDS** mode.

<b>Syntax</b>	<code>vds vds-name</code>
<b>Parameters</b>	<b>vds-name</b> Enter the name of the switch.
<b>Command Modes</b>	<b>ENABLE</b> mode <b>DEFAULT</b> mode
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command.  <b>Version 2.0</b> Introduced on the AFM VDS.

<b>Usage Information</b>	<ul style="list-style-type: none"> <li>• The VDS name must be unique.</li> <li>• To use spaces in the VDS name, enter them in single quotes (for example, <code>VDS "switch"</code>).</li> <li>• To use apostrophes in the VDS name, enter them in single quotes with a slash (for example, <code>TestUser/'s switch</code>).</li> </ul>
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## wizard

Start the vCenter credentials wizard for step-by-step configuration assistance.

 **NOTE:** You can also configure these settings individually using the `settings` command.

<b>Syntax</b>	<code>wizard</code>
<b>Command Modes</b>	<b>ENABLE</b> mode
<b>Command History</b>	This guide is platform-specific. For command information about other platforms, refer to the relevant <i>Dell Networking Command Line Reference Guide</i> . The following is a list of the AFM VDS version history for this command.  <b>Version 2.0</b> Introduced on the AFM VDS.

**Usage  
Information**

To retain the current settings and move to the next step in the configuration process, press `Enter`. To exit without making any changes, press `Q`. To confirm your changes, press `Y` when prompted.

**Related  
Commands**

[settings](#)

Configure VDS settings individually.