



VLAN Commands

- [vlan](#), on page 2
- [interface vlan](#), on page 3
- [name](#), on page 4
- [private-vlan](#), on page 5
- [show switch vlan](#), on page 6

vlan

To create a VLAN, use the **vlan** command in switch configuration mode. Use the **no** form of the command to remove a VLAN.



Note To configure any parameter on the ENCS switch portal, ensure that you add or remove parameters using separate transactions on the CLI. For example, adding and removing multiple VLANs from the ENCS switch portal is not supported in the same CLI transaction. Add a VLAN first and then remove the VLAN in a separate transaction.

vlan [*vlan-id*] [**range** *vlan-range*]
no vlan *vlan-id*

Syntax Description	<i>vlan-id</i>	Specifies a VLAN ID. You can enter a value from one of the following ranges for the VLAN ID:
		<ul style="list-style-type: none"> • 1-2349 • 2450-4093

range <i>vlan-range</i>	Specifies a list of VLAN IDs. Separate nonconsecutive VLAN IDs with a comma and no spaces. Use a hyphen to designate a range of IDs.
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Command Default	The default VLAN is VLAN 1.
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Command Modes	Switch configuration (config-switch)
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Command History	Release	Modification
	3.5.1	This command was introduced.

Usage Guidelines	If the VLAN does not exist, the VLAN is created. If the VLAN cannot be created, the command is finished with error and the current context is not changed.
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Example

The following example shows how to create a VLAN:

```
nfvis(config)# switch
nfvis(config-switch)# vlan range 19-23
```

interface vlan

To enter the interface configuration (VLAN) mode for a specific VLAN or a range of VLANs, use the **interface vlan** command in the switch configuration mode. After this command is entered, all commands configure this VLAN or range of VLANs.

```
interface vlan {vlan-id | vlan-range}
```

Syntax Description

vlan-id Specifies the VLAN ID. Valid range is:

- 1–2349
- 2450–4093

vlan-range Specifies a VLAN range. You can enter the range in the following formats:

- 5–7
- 5,6,7

Values for the range can be between 1–2349 and 2450–4093.

Command Default

Not applicable

Command Modes

Switch configuration (config-switch)

Command History

Release Modification

3.5.1 This command was introduced.

The following example shows how to configure a VLAN.

```
nfvis(config-switch)# interface vlan 1
```

name

To name a VLAN, use the **name** command in interface switch configuration mode.

name *string*

Syntax Description	<i>string</i> Specifies a unique VLAN name. Length: 1 to 32 characters.
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Command Default	None
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Command Modes	Interface (VLAN) switch configuration (config-switch-if)
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Command History	<table> <tr> <th style="text-align: left;">Release</th> <th style="text-align: left;">Modification</th> </tr> <tr> <td>3.5.1</td> <td>This command was introduced.</td> </tr> </table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				

Example

The following example shows how to specify a unique VLAN name:

```

nfvis(config-switch)# interface vlan 1
nfvis(config-switch-if)# name testvlan
nfvis(config-switch-if)# commit
nfvis(config-switch-if)# end

```

private-vlan

To configure a private VLAN, use the **private-vlan** command in interface switch configuration mode. Use the **no** form of the command to return the VLAN to normal VLAN configuration.

private-vlan { **association** *vlan-id* | **community** | **isolated** | **primary** }
no private-vlan

Syntax Description	
association <i>vlan-id</i>	Associates the primary VLAN with secondary VLANs using the VLAN ID. Valid range is: <ul style="list-style-type: none"> • 1–2349 • 2450–4093
community	Designates the VLAN as a community VLAN.
isolated	Designates the VLAN as an isolated VLAN.
primary	Designates the VLAN as a primary VLAN.

Command Default None

Command Modes Interface (VLAN) switch configuration (config-switch-if)

Command History

Release	Modification
3.5.1	This command was introduced.

Usage Guidelines

- The VLAN type cannot be changed if there is a private VLAN port that is a member in the VLAN.
- The VLAN type cannot be changed if it is associated with other private VLANs.
- The VLAN type is not kept as a property of the VLAN when the VLAN is deleted.

Example

The following example shows how to configure a private VLAN:

```
nfvis(config-switch)# interface vlan 1
nfvis(config-switch-if)# private-vlan primary
nfvis(config-switch-if)# commit
nfvis(config-switch-if)# end
```

show switch vlan

To display VLAN information, use the **show switch vlan** command in privileged EXEC mode.

```
show switch vlan [vlan-id] [detailed {created-by | name | tagged-ports | untagged-ports | vlan} ]
```

Syntax Description		
	<i>vlan-id</i>	Specifies the VLAN ID.
	created-by	Displays the information based on the creation mode.
	name	Displays the information based on the name.
	tagged-ports	Displays the information based on the tagged ports.
	untagged-ports	Displays the information based on the untagged ports.
	vlan	Displays the information based on the VLAN.

Command Default None

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	3.6.1	This command was introduced.

Example

The following is a sample output of the **show switch vlan** command:

```
nfvis# show switch vlan
VLAN          TAGGED          CREATED
ID   VLAN  NAME  PORTS  UNTAGGED PORTS  BY
-----
1     1    1    None   gi0-7,te2,te4,p01-4  Default
400  400  400  te2    None                Manual
```