F Commands

feature-set fcoe

To enable the Fibre Channel over Ethernet (FCoE) feature set, use the **feature-set fcoe** command. To disable this feature, use the **no** form of this command.

feature-set fcoe
no feature-set fcoe

Syntax Description   This command has no arguments or keywords.

Command Default   Disabled.

Command Modes

Global configuration mode.

network-adminvdc-admin

Command History

Release	Modification
5.2(1)	This command was introduced on the Cisco Nexus 7000 and MDS 9500 Series Switches.

Usage Guidelines   Use the feature-set fcoe command to enable all the features for FCoE. You must first use the install feature-set fcoe command to install FCoE support.

Note   The feature-set fcoe command is automatically installed and enabled when a FCoE line card is inserted.

The no feature-set fcoe command might take some time to complete if the size of the configuration is very large because the command must clean up all of the configuration associated with the FCoE feature set.

Examples   This example shows how to disable the FCoE feature set on the Cisco Nexus 7000 and MDS 9000 Series switches:

```
switch# configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
switch(config)# no feature-set fcoe
switch(config)#
```

Related Commands

Command	Description
install feature-set fcoe	Installs the FCoE support.

fcoe fcmap

To configure the Fibre Channel over Ethernet (FCoE) MAC address prefix (FC-Map) used to associate the FCoE node (ENode), use the **fcoe fcmap** command. To restore the default global FC-Map value of 0xefc00, use the **no** form of this command.

fcoe fcmap *value*
no fcoe fcmap *value*

Syntax Description	*value*	FC-Map value. The range is from 0EFC00 to 0EFCFF, and the default is 0xefc00.

Command Default

0EFC00.

Command Modes

Global configuration mode.

Command History

Release	Modification
5.2(1)	This command was introduced on the Cisco Nexus 7000 and MDS 9500 Series Switches.

Usage Guidelines

Before you use this command, you must enable FCoE on the switch by using the **feature fcoe** or the feature-set fcoe command.

You can prevent data corruption due to cross-fabric talk by configuring an FC-Map, which identifies the Fibre Channel fabric for this switch. When the FC-Map is configured, the switch discards the MAC addresses that are not part of the current fabric.

Examples

This example shows how to configure the FC-Map value on the switch:

```
switch# configure terminal
switch(config)# fcoe fcmap 0xefc10
switch(config)#
```

Related Commands

Command	Description
fcoe fcf-priority	Configures the FCoE Initialization Protocol (FIP) priority value.
fcoe fka-adv-period	Configures the time interval at which FIP keepalive (FKA) messages are transmitted to the MAC address of the ENode.
feature fcoe	Enables FCoE on the switch.
show fcoe	Displays the FCoE parameters, such as an FC-Map, default FCF priority value, and FKA advertisement period.
feature-set fcoe	Enables all the features necessary for FCoE on the switch.

fcoe fcf-priority

To configure the Fibre Channel over Ethernet (FCoE) Initialization Protocol (FIP) priority value advertised by the Fibre Channel Forwarder (FCF) to FCoE nodes (ENodes), use the **fcoe fcf-priority** command. To revert to the default FCF priority value, use the **no** form of this command.

fcoe fcf-priority *value*
no fcoe fcf-priority *value*

Syntax Description

value	FCF priority value. The range is from 0 to 255.

Command Default

128.

Command Modes

Global configuration mode.

Command History

Release	Modification
5.2(1)	This command was introduced on the Cisco Nexus 7000 MDS 9500 Series Switches.

Usage Guidelines

Before you use this command, you must enable FCoE on the switch by using the **feature fcoe** command.

The switch advertises its priority. The priority is used by the converged network adapters (CNAs) in the fabric to determine the best switch to connect to.

Examples

This example shows how to configure the FCF priority on the switch:

```
switch# configure terminal
switch(config)# fcoe fcf-priority 50
switch(config)#
```

Related Commands

Command	Description
fcoe fcmap	Configures the FCoE MAC address prefix (FC-Map) value.
fcoe fka-adv-period	Configures the time interval at which FIP keepalive (FKA) messages are transmitted to the MAC address of the ENode.
feature fcoe	Enables FCoE on the switch.
show fcoe	Displays the FCoE parameters, such as an FC-Map, default FCF priority value, and FKA advertisement period.
feature-set fcoe	Enables all the features necessary for FCoE on the switch.

fcoe fka-adv-period

To configure the time interval at which Fabric Initialization Protocol (FIP) keepalive (FKA) messages are transmitted to the MAC address of the Fibre Channel over Ethernet (FCoE) node (ENode), use the **fcoe fka-adv-period** command. To return to the default settings, use the **no** form of this command.

fcoe fka-adv-period *value*
no fcoe fka-adv-period *value*

Syntax Description

value	FKA advertisement period (in seconds). The range is from 4 to 60 seconds.

Command Default

8 seconds.

Command Modes

Global configuration mode.

Command History

Release	Modification
5.2(1)	This command was introduced on the Cisco Nexus 7000 MDS 9500 Series Switches.

Usage Guidelines

Before you use this command, you must enable FCoE on the switch by using the **feature fcoe** command.

Examples

This example shows how to configure the FKA advertisement period for the switch to 5 seconds:

```
switch# configure terminal
switch(config)# fcoe fka-adv-period 5
switch(config)#
```

Related Commands

Command	Description
fcoe fcf-priority	Configures the FCoE Initialization Protocol (FIP) priority value.
fcoe fcmap	Configures the FCoE MAC address prefix (FC-Map) used to associate the FCoE node (ENode).
feature fcoe	Enables FCoE on the switch.
show fcoe	Displays the FCoE parameters, such as an FC-Map, default FCF priority value, and FKA advertisement period.
show fcoe database	Displays the FCoE database information.
feature-set fcoe	Enable all the features necessary for FCoE on the switch.

fcoe vsan

To map a virtual SAN (VSAN) to a VLAN that carries Fibre Channel over Ethernet (FCoE) traffic, use the **fcoe vsan** command. To remove the mapping, use the **no** form of this command.

fcoe vsan [*vsan-id*]
no fcoe vsan [*vsan-id*]

Syntax Description

vsan-id	(Optional) VSAN ID. The range is from 1 to 4094.

Command Default

VLANID=VSANID.

Command Modes

VLAN configuration mode.

Command History

Release	Modification
5.2(1)	This command was introduced on the Cisco Nexus 7000 MDS 9500 Series Switches.

Usage Guidelines

Before you map an FCoE VLAN to the VSAN, make sure that you create a VSAN using the **vsan** command in the VLAN database configuration mode.

You should use an FCoE VLAN only for FCoE. Do not use the default VLAN, VLAN1, as an FCoE VLAN. FCoE is not supported on private VLANs.

When you map an FCoE VLAN to a VSAN, ensure that the VSAN is not mapped to any other FCoE VLAN. If you map a FCoE VLAN to a VSAN that is already mapped to another FCoE VLAN, the following error appears:

```
vlan 30:another FCOE VLAN mapping exists using the requested VSAN
```

If you do not specify a VSAN number, a mapping is created from the FCoE VLAN in use to the VSAN with the same number.

Examples

This example shows how to map an FCoE VLAN to a VSAN:

```
switch# configure terminal
switch(config)# vlan 30
switch(config-vlan)# fcoe vsan 2
switch(config-vlan)#
```

Related Commands

Command	Description
show vsan	Displays the configuration information of VSANs.
show vlan fcoe	Displays the FCoE VLAN-to-VSAN mappings.
show vsan membership	Displays the VSAN membership information.
vsan	Configures the VSAN information or membership.

Command	Description
vsan database	Enters the VSAN database mode.

fcoe veloopback

To disable the VFID check for all VE ports, use the **fcoe veloopback** command. To return to the default settings, use the **no** form of this command.

fcoe vellopback
no fcoe veloopback

Syntax Description

This command has no keywords or arguments.

Command Default

None.

Command Modes

Configuration mode.

Command History

Release	Modification
5.2(1)	This command was introduced on the Cisco Nexus 7000 and MDS 9500 Series Switches.

Usage Guidelines

Before you map the FCoE VLAN to the VSAN, make sure that you create a VSAN using the **vsan** command in the VLAN database configuration mode.

You should use an FCoE VLAN only for FCoE. Do not use the default VLAN, VLAN1, as an FCoE VLAN. FCoE is not supported on private VLANs.

When you map an FCoE VLAN to a VSAN, ensure that the VSAN is not mapped to any other FCoE VLAN. If you map an FCoE VLAN to a VSAN that is already mapped to another FCoE VLAN, the following error appears:

```
vlan 30:another FCOE VLAN mapping exists using the requested VSAN
```

If you do not specify a VSAN number, a mapping is created from the FCoE VLAN in use to the VSAN with the same number.

Examples

This example shows how to enable VE loopback for a Cisco Nexus 7000 Series switch:

```
switch# switchto vdc fcoe type storage
fcoe# configure terminal
fcoe(config)# fcoe veloopback
```

This example shows how to enable VE loopback for a Cisco MDS 9500 switch:

```
switch# configure terminal
switch(config)# fcoe veloopback
```

Related Commands

Command	Description
show vsan	Displays the configuration information of VSANs.
show vlan fcoe	Displays the FCoE VLAN to VSAN mappings.
show vsan membership	Displays VSAN membership information.

Command	Description
vsan	Configures the VSAN information or membership.
vsan database	Enters the VSAN database mode.