



## F Commands

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# feature poe

To enable Power over Ethernet (PoE), use the **feature poe** command. To disable PoE, use the **no** form of this command.

**feature poe**

**no feature poe**

**Syntax Description** This command has no keywords or arguments.

**Command Default** Disabled

**Command Modes** Global configuration mode

## Command History

Release	Modification
5.0(3)N2(1)	This command was introduced.

## Examples

This example shows how to enable PoE on the switch:

```
switch(config)# feature poe
```

## Related Commands

Command	Description
<b>power inline</b>	Configures the power usage for interfaces.
<b>show feature</b>	Displays the status of features enabled or disabled on the switch.

# feature udd

To enable the Cisco-proprietary Unidirectional Link Detection (UDLD) protocol, which allows ports that are connected through fiber optics or copper Ethernet cables to monitor the physical configuration of the cables and detect when a unidirectional link exists, use the **feature udd** command. To disable UDLD on the switch, use the **no** form of this command.

**feature udd**

**no feature udd**

**Syntax Description** This command has no arguments or keywords.

**Command Default** UDLD is disabled.

**Command Modes** Global configuration mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to enable UDLD on the switch:

```
switch(config)# feature udd
```

## Related Commands

Command	Description
<b>show udd</b>	Displays the administrative and operational UDLD status.
<b>show feature</b>	Displays whether or not UDLD is enabled on the switch.

# fabric-mode

To select the fabric mode, use the **fabric-mode** command.

**fabric-mode** {10g| 40g}

## Syntax Description

<b>10g-optimized</b>	Sets the fabric mode to 10G.
<b>40g-optimized</b>	Sets the fabric mode to 40G.

## Command Default

40G

## Command Modes

Global configuration mode

## Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

## Usage Guidelines

None

Please provide guidelines.

## Examples

This example shows how to set the fabric mode to 10G:

```
switch# configure terminal
```

```
switch(config)# fabric-mode 10g
```

This example shows how to set the fabric mode to 40G:

```
switch# configure terminal
```

```
switch(config)# fabric-mode 40g
```

## Related Commands

Command	Description

# feature adapter-fex

To enable the Adapter Fabric Extender (Adapter-FEX), use the **feature adapter-fex** command. To disable Adapter-FEX, use the **no** form of this command.

**feature adapter-fex**  
**no feature adapter-fex**

**Syntax Description** This command has no arguments or keywords.

**Command Default** Disabled

**Command Modes** Global configuration mode

Command History	Release	Modification
	5.1(3)N1(1)	This command was introduced.

**Usage Guidelines** Before you disable this feature on the switch, do the following:

- Remove all virtual Ethernet interface configurations on the switch.
- Remove all port profiles of type vethernet.
- Change the port mode to access by using the **switchport mode access** command.

If you attempt to disable the Adapter-FEX feature with virtual Ethernet interface or port profile configurations enabled, the switch returns an error message.

Before you use a virtual Ethernet interface, you must enable Cisco Virtual Machine Fabric Extender (VM-FEX) on the switch by using the **feature vmfex** command.

**Examples** This example shows how to enable Adapter-FEX on the switch:

```
switch# configure terminal
switch(config)# feature adapter-fex
Virtualization Plugin license checked out successfully
Virtualization Plugin extracted successfully
All Virtualization processes enabled successfully
switch(config)#
```

This example shows how to disable Adapter-FEX on the switch:

```
switch# configure terminal
switch(config)# no feature adapter-fex
Disabled feature adapter-fex successfully.
You should save the configuration and Reload.
switch(config)#
```

This example shows the error message that appears when you attempt to disable Adapter-FEX on a switch with virtual Ethernet interface configurations enabled:

```
switch# configure terminal
switch(config)# no feature adapter-fex
Disabling of NIV failed.veth and vntag configs found
Shutdown all veths and Remove them.
Change ports with 'switchport mode vntag' to 'switchport mode access'.
switch(config)#
```

### Related Commands

Command	Description
<b>interface vethernet</b>	Configures a virtual Ethernet interface.
<b>port-profile</b>	Configures a port profile.
<b>show feature</b>	Displays whether or not Adapter-FEX is enabled on the switch.
<b>switchport mode</b>	Configures the interface as a nontrunking nontagged single-VLAN Ethernet interface.

# feature lldp

To enable Link Layer Discovery Protocol (LLDP), use the **feature lldp** command. The (LLDP), which is a neighbor discovery protocol that is used for network devices to advertise information about themselves to other devices on the network, is enabled on the switch by default.

**feature lldp**

**no feature lldp**

**Syntax Description** This command has no arguments or keywords.

**Command Default** Enabled

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

**Usage Guidelines** You can enable or disable the LLDP feature, using the **feature lldp** command on a Cisco Nexus device.

The Cisco Discovery Protocol (CDP) is a device discovery protocol that runs over Layer 2 (the data link layer) on all Cisco-manufactured devices (routers, bridges, access servers, and switches). CDP allows network management applications to automatically discover and learn about other Cisco devices connected to the network.

To support non-Cisco devices and to allow for interoperability between other devices, the switch supports the Link Layer Discovery Protocol (LLDP). LLDP is a neighbor discovery protocol that is used for network devices to advertise information about themselves to other devices on the network. This protocol runs over the data-link layer, which allows two systems running different network layer protocols to learn about each other.

**Examples** This example shows how to enable the LLDP feature on the switch:

```
switch(config)# feature lldp
```

This example shows how to disable LLDP on the switch:

```
switch(config)# no feature lldp
```

In the following example, when the **feature lldp** command is enabled, it is displayed in the running configuration of a switch:

```
switch# show running-config
```

```
!Command: show running-config
!Time: Wed Jan 29 12:36:03 2013
version 6.0(2)N1(1)
feature telnet
```

```

feature lldp
username admin password 5 $1$d8lkfqC8$4VfRuOoZTKvCtTq8VAKbq/ role network-admin
no password strength-check
ip domain-lookup
hostname switch
class-map type qos class-fcoe
class-map type qos match-all c1
  match cos 1
<--Output truncated-->
switch#

```

**Related Commands**

Command	Description
<b>lldp</b>	Configures the global LLDP options on the switch.
<b>lldp (Interface)</b>	Configures the LLDP feature on an interface.
<b>show feature</b>	Displays that LLDP is enabled on the switch.