

View domain ID of fiber optic switch

Article Overview

You can view the domain ID of a Fibre Channel switch using the `show fcdomain domain-list vsan` command on Cisco MDS switches.

Understanding Domain IDs

A domain ID uniquely identifies a switch within a Fibre Channel fabric or VSAN. Each switch can have different domain IDs in different VSANs, and the domain ID is part of the overall FC ID used for addressing devices in the fabric . Domain IDs can be static (requested by the switch) or preferred (assigned by the principal switch), and they range from 1 to 239. If no domain ID is configured, the switch may use a random ID .

Viewing Domain IDs on Cisco MDS Switches

To check the domain IDs currently in use:

- o Log in to the switch via console, SSH, or Telnet.
- o Enter the command:

```
CodeCopyshow fcdomain domain-list vsan
```

This command displays all domain IDs in the specified VSAN, including the local switch and the principal switch . Example output:

```
CodeCopyswitch1# show fcdomain domain-list vsan 2
Number of domains: 2
Domain ID WWN 0x4a (74) 20:01:00:05:30:00:13:9f 0x4b (75) 20:01:00:05:30:00:13:9e
```

- o Local indicates the domain ID assigned to the switch you are logged into.
- o Principal indicates the domain ID assigned by the principal switch in the fabric .

Checking for Conflicts

If two switches have overlapping domain IDs, one switch may become isolated. You can resolve conflicts by reassigning a domain ID using:

```
CodeCopyfcdomain domain [static | preferred] vsan
```

- o static: Requests a specific domain ID; if unavailable, the switch isolates itself.
- o preferred: Requests a domain ID but accepts another if unavailable . After changing domain IDs, you may need to restart the Domain Manager:

```
CodeCopyfcdomain restart disruptive vsan
```

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Additional Notes

- o Domain IDs are configured per VSAN, so a switch may have multiple domain IDs if it participates in multiple VSANs .
- o Always save the running configuration after changes to ensure persistence across reboots .
- o On Broadcom or other vendor switches, the process is similar: log in, check the current domain ID, and modify if necessary . By following these steps, you can reliably view and manage the domain ID of your fibre optic switch, ensuring proper fabric operation and avoiding conflicts.

Article ID:5568 View the Optical Module Status on a Switch through the Command Line Interface (CLI)
Objective

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It's always important to ensure that the fiber optic modules are compatible with the Cisco switch to avoid

This list covers the most commonly used Cisco MDS show commands for SAN switch management, troubleshooting,

If the switch is connected to the fabric after it has been powered on and the default domain ID is already in use, the fabric segments.

Configuring Domain Parameters The Fibre Channel domain (fcdomain) feature performs principal switch selection, domain ID

The Fibre Channel domain (fcdomain) feature performs principal switch selection, domain ID distribution, FC ID allocation, and fabric

Learn to configure the unique Domain ID each switch in fabric is identified by. This video

I usually have static domain ID's and include the domain ID as part of the switchname, so it is easy to track this sort of

Displaying the Domain IDs Use the following procedure to display device domain IDs. Connect to the switch and log in using an

Connect to the switch and log in using an account assigned to the admin role. 2. Enter the fabricShow

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command. Example output of

Use the `show fcdomain domain-list` command to display the list of domain IDs of all switches belonging to a specified VSAN. This list

Domain IDs are assigned dynamically when a switch is enabled. You can change them manually so that you can control the ID

Fibre Channel switches have Domain IDs that are used to identify them in the fabric. They are automatically assigned

The default domain ID is 1. If the switch is not powered on until after it is connected to the fabric and the default domain ID is already

Domain IDs uniquely identify a switch in a Virtual Storage Area Network (VSAN). A switch may have different domain

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