

Viewing the configuration of the fiber optic switch

Article Overview

You can view a fiber optic switch configuration using show commands to inspect system info, interface status, VLANs, VSANs, zoning, and fabric topology.

Viewing Configuration on Ethernet Fiber Switches

For Ethernet switches with fiber ports, such as Cisco Catalyst series:

- o Connect to the switch via console, SSH, or Telnet using a terminal client like PuTTY, ensuring your computer is on the same IP range as the switch .
- o Check interface status: Use commands like show interfaces status or show running-config to see port configurations, speed, duplex, and whether the port is set to fiber mode .
- o VLAN information: Use show vlan brief to view VLAN assignments for fiber-enabled ports .
- o SFP module details: Commands like show interfaces transceiver display optical module type, wavelength, and power levels .
- o Troubleshooting: If a fiber link is not operational, verify the port mode, SFP compatibility, and cabling specifications .

Viewing Configuration on Fibre Channel (FC) SAN Switches

For Cisco MDS or Nexus FC switches:

- o General system info: show version or show system displays software/hardware versions, uptime, and environmental status .
- o Interface & port info: show interface fc1/1 or show interface brief provides operational state, speed, and optical module details. You can also see logged-in FC devices (WWPN/WWNN) and port statistics .
- o VSAN and zoning: show vsan lists configured VSANs and their associated ports. show zone or show zoneset active displays active zoning configurations and zone members .
- o Fabric and topology: show fspf database or show fabric provides a high-level view of the fabric topology and registered WWPNs .
- o Performance monitoring: show logging and show interface counters help track errors, throughput, and system events .

Key Considerations

- o Always verify the type of switch (Ethernet vs. Fibre Channel) to use the correct commands and interpret results properly .

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- o Use original compatible SFPs to avoid unpredictable behavior and ensure accurate status reporting .
- o For FC switches, remember that virtual FC interfaces may have limited features compared to native FC ports, and some attributes are read-only in operational mode . By using these commands and procedures, you can comprehensively view the configuration, operational status, and connectivity of fiber optic switches in both Ethernet and SAN environments.

Controlling the switch via RS422/485: Fibersystem AB is an inventive Swedish company who since 1982 has been working with the

Features Control signal choices for fiber optic switches include RJ-45, RS232, RS422, and TTL. Common

Use the "show interface transceiver" command to display detailed information about the fiber optic modules

Each physical Fibre Channel interface in a switch may operate in one of several port modes: E mode, TE mode, F mode, and SD

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The TC3715 10/100 6-Port Ethernet Switch is a low cost, flexible bandwidth solution for high traffic industrial and

Cisco 10-Gigabit Ethernet Transceiver Modules Compatibility Matrix For general configuration information and

Solved: Hi everyone, I have two new Cisco switches connected to each other with a fibre

Fiber polarity is the direction that light signals travel from one end of a fiber optic cable (link)

Here's a list of commonly used Cisco MDS Fibre Channel (FC) switch show commands along with their explanations

Learn how to design a fiber optic ring network with practical diagrams, topologies, and

Introduction This document describes how to troubleshoot fiber optic interfaces by addressing some of the fiber optic

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As we speak I just have optic fibre (Community Fibre) connected to my Huawei modem / Linksys Velop which will be

This tutorial will explain the steps required to configure fiber optics on a Cisco switch and ensure proper connectivity

This section describes how to assign IP address to the Scalance XC206-2SFP-MM Multi Mode or XC206-2SFP-SM Single Mode

The transceiver you are using is compatible with your switch. Assuming you have a good connection (not too much

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