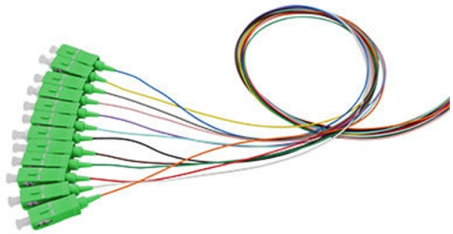
Fiber optic switch finds port via wn



Overview

Troubleshoot Fiber Links on Catalyst 9000 Series SwitchesThis document describes how to troubleshoot fiber optic interfaces by addressing some of the fiber.

Key Takeaways

You can identify which fiber channel switch port a device is connected to by querying the switch for its WWN (World Wide Name) using show commands on Cisco MDS or similar SAN switches. Steps to Perform a WWN-Based Port Lookup1.

Access the Switch CL

I Log in to the switch using SSH or console access. Ensure you have administrative privileges to run show commands. 2.

Identify the WW

N of the Device Each SAN device has a unique WWPN (World Wide Port Name) or WWNN (World Wide Node Name). Obtain this from the host, storage array, or SAN management software. 3.

Query the Switch for WW

N Information Use the following commands on a Cisco MDS switch:show flogi database – Lists all logged-in devices with their WWPNs and the switch port they are connected to.show fcns database – Displays the mapping of WWPNs to FCIDs (Fibre Channel IDs) and associated ports.show interface brief – Provides a summary of all interfaces, including operational status, speed, and port type.show interface transceiver – Gives details about the transceiver, including optical power and model, which can help verify connectivity. 4.

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Map WWN to Switch Port Locate the WWP

N in the output of show flogi database or show fcns database. The corresponding interface/port column indicates the physical switch port where the device is connected. 5.

Verify Connectivity Check the port status using show interface to ensure it is up and operational. You can also use a fiber optic power meter or OTDR for physical verification if needed.

Additional Tips

Zoning and VSANs: If the switch uses zoning, you can check which VSAN the WWN belongs to using show zone or show vsan. This helps confirm access permissions. Fabric Name Server: The switch maintains a fabric name server that registers all WWPNs.

Commands like show fcns database or show device-alias database can help identify devices by alias or WWN. Troubleshooting: If a WWN does not appear, ensure the device is powered on, the HBA is logged in, and the port is enabled. Check for errors using show logging or show interface.

By following these steps, you can accurately determine which fiber optic switch port corresponds to a given WWN, enabling effective SAN management, troubleshooting, and device mapping.

Article Content

Troubleshoot Fiber Links on Catalyst 9000 Series Switches

Introduction This document describes how to troubleshoot fiber optic interfaces by addressing some of the fiber optic module and cabling specifications. Prerequisites Requirements

wwnAddress

Binds an FC Port ID to a device WWN. Use this command to manage address assignments for a given device world wide name. The allocation of a PID to a specified device WWN supports the persistence

How to check fiber ports in cisco switch?

Use the "show interface" command on the switch''s command line interface (CLI) to display the status and statistics of the fiber ports. This command will provide

Solved: Fiber optic cable check command

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The command "show interface transceiver detail" will NOT work on non-DOM (Digital Optical Monitoring) modules, like the SFP. If you have a 10Gb module or the ruggedized SFP, try

Ethernet Fiber Switch: Comprehensive Guide to Networking Power

An Ethernet fiber switch is a networking device that enables data transmission over fiber optic cables rather than traditional copper cables. It is essential for high-speed networking, offering

The Show fiber ports optical transceiver port detail command ...

When the show fiber-ports optical-transceiver port detailed command is run several times without changing the status of the PowerConnect 6024 and 6024F ports, different results are displayed.

Connectrix: How to troubleshoot Fibre Channel node to switch port or ...

This article explains how to troubleshoot Fibre Channel node to switch port or SFP communication problems by elimination.

The difference between WWN, WWNN and WWPN

If it is a fiber optic switch, wwn and wwnn are the same, and wwpn refers to each fiber port. If it is an HBA card, if there is only one port, the three may be the same, and if there are multiple ports, it is

Fibre Channel worldwide port name identification

The DS8000 system automatically finds the WWPN for its ports on its host adapters when you attach your host system. You must identify the unique WWPN of each port on your host system that is

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Fiber Optic vs Ethernet Port Differences: Connectors

Learn key differences between fiber optic connectors (SC, ST, SFP+) and Ethernet ports. Fiber supports 10Gbps speeds via SFP+ modules vs Ethernet''s 100m

Solved: Connecting Switches Via Fiber

I am new to Cisco switches as I am just putting these in my home and trying to link the three with fiber using Cisco FSP+ modules. I have them installed and connected but there is no FSP

Noob Question: Consumer Network Switch for fiber optics

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My question is: Can a Cat 5e LAN cable connected from 1GB Router RJ45 Port to a network switch with 4 devices can give each device 1GB up/down or I need to run a 30m fiber cable to my room and get

10 port managed Ethernet to multimode fiber optic switch, EL1000

The EL-1000-4GM is a 10-port managed Industrial Ethernet Layer 2 switches. Compact Ethernet switch with 2 fiber optic and 8 RJ45 ports which support PROFINET.

What port is this? Won''t plug in to our ethernet-only router ...

There are different fiber standards with different usable ports, LC, SC, ST being the most common standards. Most fiber optic routers and switches actually use ports that allow you to switch out what

Ethernet Switches | EKS

These Ethernet switches are meticulously crafted for industrial applications, offering a robust housing, compact design, and specifications tailored to withstand the

Configuring Fibre Channel Interfaces

Fibre Channel over Ethernet (FCoE) encapsulation allows a physical Ethernet cable to simultaneously carry Fibre Channel and Ethernet traffic. In Cisco Nexus 5000 Series switches, an FCoE-capable

Fiber Optic Ring Network Design Explained:

Learn how to design a fiber optic ring network with practical diagrams, topologies, and switch setup tips. Explore ring network switch options

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