

Configure the fiber optic ports of two switches

Article Overview

To configure a two-port fiber optic connection, you need compatible SFP modules, duplex fiber cabling, proper port configuration, and VLAN setup on both switches.

Step 1: Verify Hardware Compatibility

Ensure both switches have SFP or SFP+ ports available. Select SFP modules that match the fiber type and network speed:

- o Multimode fiber for runs under 1000 feet
- o Single-mode fiber for longer runs
- o SFP modules must match the switch's supported media type (SX, LX, ZX) and bandwidth (1G, 10G, etc.), .

Step 2: Prepare Fiber Cabling

Use duplex fiber optic cables with LC connectors. Ensure the cables are terminated correctly and clean to avoid signal loss. When connecting two switches, cross the send and receive strands: the transmit (TX) of one switch connects to the receive (RX) of the other .

Step 3: Insert SFP Modules

Insert the SFP modules into the corresponding ports on each switch. Most SFPs are hot-swappable, so the switch does not need to be powered down . Verify the module type matches the fiber cable (single-mode SFP with single-mode fiber, multimode SFP with multimode fiber), .

Step 4: Configure Switch Ports

Access the switch via console or SSH and configure the fiber ports:

- o Enable the interface: interface GigabitEthernetX/X or interface TenGigabitEthernetX/X
- o Set the port to no shutdown: no shutdown
- o Configure speed and duplex if required (most SFPs auto-negotiate)
- o Assign the port to a VLAN if needed: switchport mode access and switchport access vlan .

Step 5: Verify Connectivity

Check the link status with:

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- o show interface status
- o show ip interface brief
- o Ensure the link lights on the SFP ports are active. If not, verify SFP compatibility, fiber type, and cabling .

Step 6: Save Configuration

Once the connection is verified, save the configuration to the switch's memory: copy running-config startup-config .

Troubleshooting Tips

- o No link light: Check SFP type, fiber type, and strand orientation.
- o Third-party SFPs: Some non-Cisco SFPs may not work with Cisco switches.
- o VLAN issues: Ensure both ends are in the same VLAN if using access mode, or configure trunking if carrying multiple VLANs . By following these steps, you can establish a reliable two-port fiber optic connection between switches or from a switch to a fiber network, ensuring high-speed and stable communication.

Hey, I have a real life situation in which two switches are connected through a fiberlink. I want to make this network in

This configuration needs to be entered on both sides to ensure that they both act as trunks and allow all VLANs. In

First of all, we have two sites in two different locations, and we are planning to implement fiber between them. I

Can two switches with optical ports be directly connected by optical fiber? Yes, the main line of the optical fiber LAN is

If there is no link light when you connect the fiber port, you have most likely a physical layer issue. So, check to see if

This video explains how to extend your network to another building or switch using Fiber

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

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When connecting terminated duplex fiber optic cable between two network switches, ensure the connections are reversed between

If you want to achieve the highest speed and distance in the cabling between two or more switches, without a doubt,

If you're tired of slow network speeds and want to take advantage of the incredible

Hi, I have a basic question regarding two 3750G switches I would like to connect using fiber. I have the 2 Twingig

Configuring fiber optics on a Cisco switch may seem complicated, but with the right steps and information, it's possible

Duplex Communication The ports of a switch can be configured independently for different needs. This topic covers how to configure

This guide breaks down exactly how to use SFP ports on UniFi switches and gateways for fiber connections, what modules you'll

Cisco Nexus 5000 Series switches provide up to eight physical Fibre Channel uplinks. The Fibre Channel interfaces are supported

Good morning. I have 2 switches Type 3650 one has 24 ports the second has 48 port. additional each switch has 4

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