FC switch interfaces

Article Overview

FC switch interfaces are specialized ports that connect nodes and switches in a SAN, with distinct types such as F_Port, E_Port, NP_Port, and G_Port, each serving specific roles in fabric communication.

Key FC Switch Interface Types

• F_Port (Fabric Port): Connects directly to an N_Port on a server or storage device, enabling node-to-fabric communication .
• E_Port (Expansion Port): Connects two FC switches to form a larger fabric, supporting inter-switch communication .
• NP_Port (N-Port Proxy): Used on FCoE-FC gateways to connect to F_Port interfaces on other FC switches, allowing the gateway to present multiple virtual ports .
• G_Port (Generic Port): Operates in auto mode to negotiate its role with the peer; it can act as an E_Port or F_Port depending on the connection .
• VF_Port (Virtual F_Port): A virtualized F_Port presented by an FCoE-FC gateway to FCoE devices, allowing multiple devices to log in through a single physical interface .

Interface Configuration and Usage

• Native FC Interfaces: Physical ports on a switch or gateway configured specifically for FC traffic. They cannot carry Ethernet or FCoE traffic and must connect to other native FC ports .
• FCoE-FC Gateway Interfaces: Ethernet interfaces on a gateway can be configured to handle FCoE traffic, encapsulating and decapsulating FC frames for transport over Ethernet while connecting to native FC ports on the SAN ....

Article Content

Fibre Channel switch

In the computer storage field, a Fibre Channel switch is a network switch compatible with the Fibre

What is a Fibre Channel switch? | Definition from TechTarget

Learn about Fibre Channel switches, how they work and their benefits. Examine how FC switches differ from Ethernet

Understanding Fibre Channel | Junos OS | Juniper Networks

When configured as a Fibre Channel over Ethernet (FCoE)-FC gateway, the QFX3500 switch supports the transport

Fibre Channel Interoperability

FC is primarily used in storage area networks (SANs) because it provides reliable, lossless, in-order frame transport

FC Switch— ManageEngine OpManager

FC switches can be combined to create large SAN fabrics that interconnect thousands of servers and storage ports.A Fibre Channel

Fibre Channel

Fibre Channel (FC) is a high-speed data transfer protocol providing in-order, lossless delivery of raw block data. Fibre Channel

Configuring Fibre Channel Interfaces

Configuring Fibre Channel Interfaces This chapter provides information about Fibre Channel interfaces, its features, and how to

Understanding FCoE-FC Gateway Functions

Each of the native FC interfaces on the gateway performs a fabric login (FLOGI) to the FC switch when each interface initializes. This

CB_phys.mif

3 Physical Interfaces This chapter describes options you can use to configure Fibre Channel (FC) and Gigabit Ethernet ports on an

Cisco MDS 9000 Series Interfaces Configuration Guide, Release 9.x

This option is supported only on Fibre Channel (FC) interfaces configured in F-mode. It can be configured regardless of

Understanding Interfaces on an FCoE-FC Gateway

One or two blocks of six proxy N_Port (NP_Port) interfaces to connect to FC switch fabric ports (F_Ports). Each FC

Understanding an FCoE-FC Gateway | Junos OS | Juniper Networks

The FCoE-FC gateway handles FCoE Initialization Protocol (FIP) and FCoE traffic on the interfaces connected to FCoE devices. The

Inside a Modern Fibre Channel Architecture – Part 1

FC-0 the physical interface (FC-0) consists of transmission media, transmitters, and receivers and their interfaces

Example: Setting Up Fibre Channel and FCoE VLAN Interfaces in an

To transmit Fibre Channel (FC) traffic between FCoE devices and a storage area network (SAN) FC switch, you configure a local FC

Configuring the Cisco FC switches manually

You must configure the FCIP switch ports that connect the ISL (E-ports) by creating FCIP profiles and interfaces, and

Fibre Channel

Fibre Channel was designed as a serial interface to overcome limitations of the SCSI and HIPPI physical-layer parallel-signal copper

What are Fibre Channel port types?

Learn about the various types of Fibre Channel ports on FC switches and routers and what each is used for in a Fibre

Fibre Channel over Ethernet (FCoE)

FCoE is technology that enables converged I/O, which encompasses data Ethernet traffic and Fibre Channel (FC) sharing the same

List of Interface Commands | CISCO MDS Switches

Interface Commands Display the information about transceiver (SFP) on all the ports. This includes the product id, serial number

Overview of Fibre Channel | Junos OS | Juniper Networks

FC components include initiators, targets, and FC-capable switches that interconnect FC devices and may also interconnect FC

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