

Application of the FC Interface



AI Overview

The FC (Fibre Channel) interface is primarily used to connect servers to storage devices in SANs, enabling high-speed, reliable, and lossless data transfer.

Core Applications

Storage Area Networks (SANs): The FC interface is widely deployed in SANs to provide a dedicated, high-speed connection between servers and storage arrays, ensuring low-latency, in-order, and lossless delivery of block data. This is critical for enterprise environments where large volumes of data must be accessed and backed up efficiently.

High-Speed Data Transfer: FC interfaces support data rates ranging from 1 Gbps to 128 Gbps, making them suitable for high-performance computing, database servers, and virtualized environments. They can transport protocols like SCSI (via FCP), NVMe, and FICON for IBM mainframes, allowing versatile storage access.

Network Topologies: FC interfaces operate in various SAN topologies:

- Point-to-Point:** Direct connection between a server and a storage device.
- Arbitrated Loop:** Supports up to 126 devices in a loop configuration.
- Switched Fabric:** Connects multiple servers and storage devices through FC switches, supporting thousands of nodes with unique FC addresses.

Configuration and Management

Port Identification: Each FC interface has a unique WWPN (World Wide Port Name) and WWNN (World Wide Node Name), which are used for routing and communication within the fabric. The FC port address is assigned dynamically by the switch during login (PLOGI), enabling monitoring and diagnostics.

Operational State and Failover: FC interfaces can be enabled or disabled, and in high-availability setups like MetroCluster, interfaces can fail over to partner nodes while maintaining connectivity. This ensures continuous access to storage even during node failures.

Protocol Support: FC interfaces can carry multiple upper-layer protocols, including FCP for SCSI commands, NVMe for flash storage, and FICON for mainframes, making them versatile for different storage technologies.

Advantages

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Fibre Channel Layers

These services allow FC-4 to carry various data payloads, including block data, file data, and video data, over a Fibre Channel network. The goal of FC-4 is to provide a flexible, scalable, and

Web APIs

What is Web API? API stands for Application Programming Interface. A Web API is an application programming interface for the Web. A Browser API can extend the functionality of a web browser. A

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ISO 15118-20:2022

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Introduction to APIs (Application Programming Interface)

The document provides an introduction to APIs, detailing their purpose, types (private, public, partner), and comparison to web services. It explains key

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4.3 Overview of Fibre Channel (FC) SAN Protocol

FC protocol provides both the channel speed for data transfer with low protocol overhead and the scalability of network technology. FC provides a serial

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Deploy and Access the Kubernetes Dashboard

Note: For in-cluster deployments similar to Kubernetes Dashboard, see the Headlamp in-cluster installation guide. Dashboard is a web-based

FCP (Fibre Channel Protocol)

It is a SCSI interface protocol that utilizes Fibre Channel connections. This protocol is used to connect high-performance computers, storage devices, mainframes, big data workstations,

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Fibre Channel Protocol

Fibre Channel Protocol (FCP) is the SCSI interface protocol utilising an underlying Fibre Channel connection. The Fibre Channel standards define a high-speed data transfer mechanism that can be

Manage FC network interfaces

An FC interface provides FC access to storage within the interface SVM using either Fibre Channel Protocol (FCP) or NVMe over FC (NVMe/FC). The FC interface REST API allows you to create,

HID Application Programming Interface (API)

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GLEIF API

The GLEIF API is based on the data found in the GLEIF Golden Copy. Full documentation on the GLEIF API, as well as a demo application, are available

Fibre Channel Functional Overview

Fundamentally, Fibre Channel allows two or more nodes to communicate by sending information units (IUs) to each other. This is accomplished by fragmenting the IUs into frames which are then sent

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Fibre Channel (FC) interface

These modules may have Fibre Channel ports, Ethernet/iSCSI ports, or even NVMe-over-FC support. They ensure high-speed data transmission and redundancy in enterprise storage solutions. Some

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