

Fc san does not require an additional storage interface



Summary of Content

Fibre Channel SAN typically requires a switch or additional interface for proper connectivity, but in certain configurations like Cisco UCS end-host mode, direct connections without a SAN switch are possible.

Direct-Attached vs SAN Connectivity

Fibre Channel SANs are designed to connect multiple hosts to shared storage through a SAN fabric, which usually includes switches, HBAs, and storage arrays to manage traffic, zoning, and access control. Direct connections from hosts to storage without a SAN switch are generally not supported in standard FC SAN deployments because NPIV (N_Port ID Virtualization) is required to manage multiple virtual ports over a single physical port. This ensures proper zoning and LUN visibility across hosts.

However, in Cisco UCS environments, there are exceptions. When using end-host mode (also known as N Port Virtualization, NPV), the Fabric Interconnect can act as an end host, allowing servers to connect directly to storage without a SAN switch. In this mode, vHBAs are pinned to FC uplink ports, and the fabric interconnect presents the ports as server N-ports to the storage network. This setup avoids loops and simplifies direct-attached storage (DAS) configurations, but it has limitations, such as the inability to repin vHBAs if an uplink fails.

Key Considerations

Article Content

SAN (FC, FCoE, NVMe/FC, iSCSI), RDM

Therefore, a volume that contains only LUNs does not need to be internally mounted at all, and a junction path is not

Fiber Channel disaggregated pattern without backup network

This article describes the network reference pattern for disaggregated Azure Local clusters that use Fiber Channel

Cisco UCS Manager Storage Management Guide using the CLI,

Devices in a captive storage topology do not have direct access to the storage network and do not support efficient

4.2 Fibre Channel (FC) SAN Components

In an FC SAN, the end devices, such as server or host and storage systems are all referred to as nodes. Each node is

SAN provisioning with FC

When you map a LUN on a storage system to an igroup, you can grant all the initiators in that group access to that LUN. If a host's

Connecting with the FC SAN

You can use connector nodes to connect to the SAN using Fibre Channel cables. The solution is available for use with Netezza

Cisco UCS Manager Storage Management Guide using the CLI,

Unified storage involves configuring the same physical port as both an Ethernet storage interface and an FCoE storage

Using ESXi with Fibre Channel SAN

ESXi supports Fibre Channel (FC), a storage protocol that the SAN uses to transfer data traffic from hosts to shared storage. This

FC vs iSCSI vs SAS for Storage: What to Choose in 2026 ✂

It does not require a separate SAN network, it is easy to understand, and it works well for compact solutions. For a

Module 6-Storage Area Network

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