



Requirements for switch zoning in a MetroCluster configuration with array LUNs

ONTAP MetroCluster

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Table of Contents

- Requirements for switch zoning in a MetroCluster configuration with array LUNs 1
- Shared initiator and shared target support for MetroCluster configuration with array LUNs 1

Requirements for switch zoning in a MetroCluster configuration with array LUNs

When using switch zoning in a MetroCluster configuration with array LUNs, you must ensure that certain basic requirements are followed.

The requirements for switch zoning in a MetroCluster configuration with array LUNs are as follows:

- The MetroCluster configuration must follow the single-initiator to single-target zoning scheme.
Single-initiator to single-target zoning limits each zone to a single FC initiator port and a single target port.
- The FC-VI ports must be zoned end-to-end across the fabric.
- Sharing of multiple initiator ports with a single target port can cause performance issues.
Similarly, sharing of multiple target ports with a single initiator port can cause performance issues.
- You must have performed a basic configuration of the FC switches used in the MetroCluster configuration.

[Configuring the Cisco or Brocade FC switches manually](#)

Shared initiator and shared target support for MetroCluster configuration with array LUNs

Being able to share a given FC initiator port or target ports is useful for organizations that want to minimize the number of initiator or target ports used. For example, an organization that expects low I/O usage over an FC initiator port or target ports might prefer to share FC initiator port or target ports instead of dedicating each FC initiator port to a single target port.

However sharing of initiator or target ports can adversely affect performance.

Related information

[How to support Shared Initiator and Shared Target configuration with Array LUNs in a MetroCluster environment](#)

- Switch zoning defines paths between connected nodes. Configuring the zoning enables you to define which array LUNs can be viewed by specific ONTAP systems.

[Example of switch zoning in a two-node MetroCluster configuration with array LUNs](#)

[Example of switch zoning in a four-node MetroCluster configuration with array LUNs](#)

[Example of switch zoning in an eight-node MetroCluster configuration with array LUNs](#)

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