



Example of switch zoning in a four-node MetroCluster configuration with array LUNs

ONTAP MetroCluster

aherbin, netapp-ivanad, ntap-bmegan
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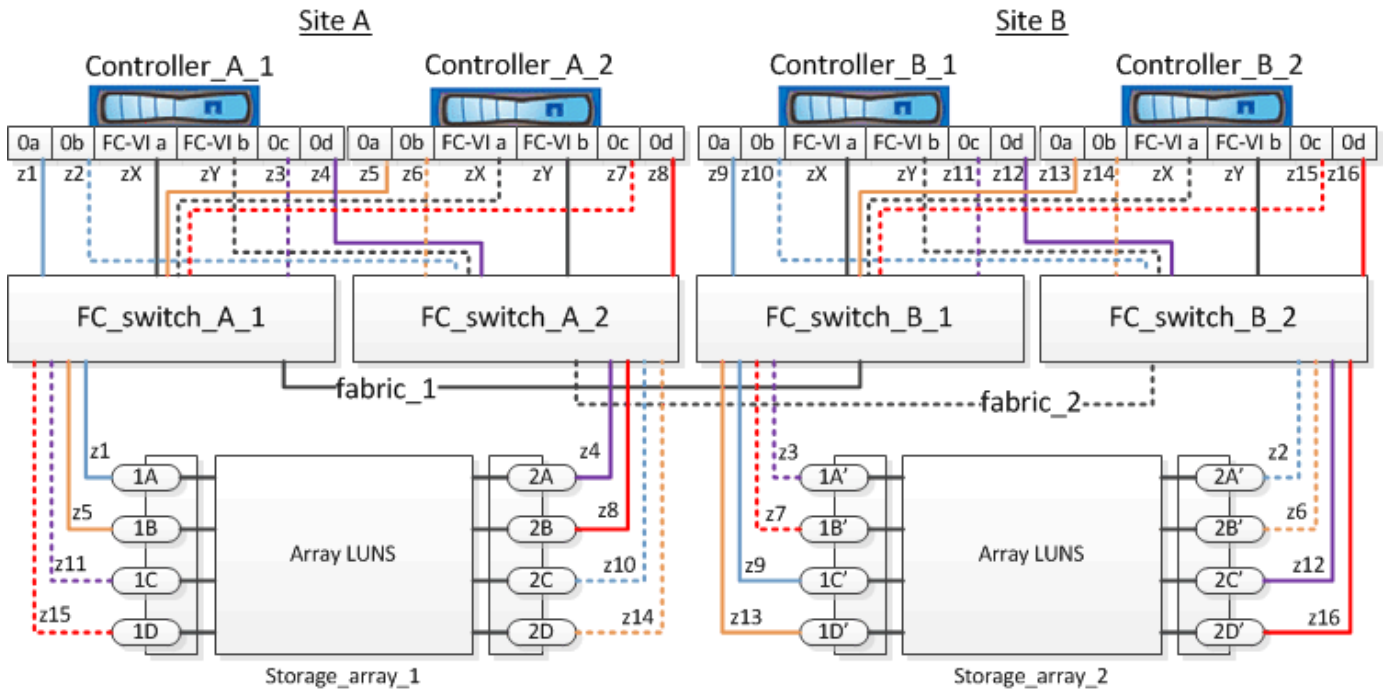
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Example of switch zoning in a four-node MetroCluster configuration with array LUNs

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

You can use the following example as a reference when determining zoning for a four-node MetroCluster configuration with array LUNs. The example shows single-initiator to single-target zoning for a MetroCluster configuration. The lines in the following example represent zones rather than connections; each line is labeled with its zone number:



In the illustration, array LUNs are allocated on each storage array for the MetroCluster configuration. LUNs of equal size are provisioned on the storage arrays at both sites, which is a SyncMirror requirement. Each ONTAP system has two paths to array LUNs. The ports on the storage array are redundant.

In the illustration, the redundant array port pairs for both the sites are as follows:

- Storage array at Site A:
 - Ports 1A and 2A
 - Ports 1B and 2B
 - Ports 1C and 2C
 - Ports 1D and 2D
- Storage array at Site B:
 - Ports 1A' and 2A'
 - Ports 1B' and 2B'
 - Ports 1C' and 2C'
 - Ports 1D' and 2D'

The redundant port pairs on each storage array form alternate paths. Therefore, both the ports of the port pairs can access the LUNs on the respective storage arrays.

The following tables shows the zones for this example:

FC_switch_A_1

Zone	ONTAP controller and initiator port	Storage array port
z1	Controller_A_1: Port 0a	Port 1A
z3	Controller_A_1: Port 0c	Port 1A'
z5	Controller_A_2: Port 0a	Port 1B
z7	Controller_A_2: Port 0c	Port 1B'

FC_switch_A_2

Zone	ONTAP controller and initiator port	Storage array port
z2	Controller_A_1: Port 0b	Port 2A'
z4	Controller_A_1: Port 0d	Port 2A
z6	Controller_A_2: Port 0b	Port 2B'
z8	Controller_A_2: Port 0d	Port 2B

FC_switch_B_1

Zone	ONTAP controller and initiator port	Storage array port
z9	Controller_B_1: Port 0a	Port 1C'
z11	Controller_B_1: Port 0c	Port 1C
z13	Controller_B_2: Port 0a	Port 1D'
z15	Controller_B_2: Port 0c	Port 1D

FC_switch_B_2

Zone	ONTAP controller and initiator port	Storage array port
z10	Controller_B_1: Port 0b	Port 2C
z12	Controller_B_1: Port 0d	Port 2C'
z14	Controller_B_2: Port 0b	Port 2D
z16	Controller_B_2: Port 0d	Port 2D'

Zones for the FC-VI connections at Site A

Zone	ONTAP controller and FC initiator port	Switch
zX	Controller_A_1: Port FC-VI a	FC_switch_A_1
zY	Controller_A_1: Port FC-VI b	FC_switch_A_2
zX	Controller_A_2: Port FC-VI a	FC_switch_A_1
zY	Controller_A_2: Port FC-VI b	FC_switch_A_2

Zones for the FC-VI connections at Site B

Zone	ONTAP controller and FC initiator port	Switch
zX	Controller_B_1: Port FC-VI a	FC_switch_B_1
zY	Controller_B_1: Port FC-VI b	FC_switch_B_2
zX	Controller_B_2: Port FC-VI a	FC_switch_B_1
zY	Controller_B_2: Port FC-VI b	FC_switch_B_2

Related information

[Requirements for switch zoning in a MetroCluster configuration with array LUNs](#)

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

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

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