

Migrate from a switched cluster with SAT storage by reusing the storage switches

ONTAP Systems

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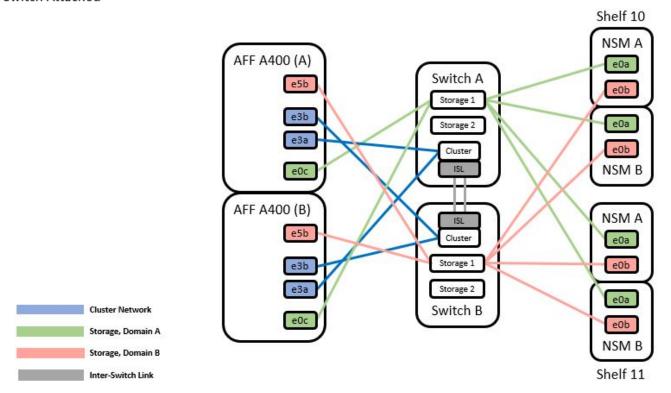
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Migrate the storage switches

By reusing the storage switches the storage switches of HA pair 1 become the shared switches. **Cabling diagram for switch-attached**

Switch Attached



Steps

1. Verify that the storage configuration of HA pair 1 (and HA pair 2) is correct and error free: system switch ethernet show

storage::*> system switch ethernet show Address Model Switch storage-network 172.17.227.5 C9336C Serial Number: FOC221206C2 Is Monitored: true Reason: None Software Version: Cisco Nexus Operating System (NX-OS) Software, Version 9.3(5)Version Source: CDP sh2 storage-network 172.17.227.6 C9336C Serial Number: FOC220443LZ Is Monitored: true Reason: None Software Version: Cisco Nexus Operating System (NX-OS) Software, Version 9.3(5)Version Source: CDP 2 entries were displayed. storage::*>

- 2. Move the HA pair 1, NSM224 path A cables from storage switch A to the NSM224 storage ports for HA pair 1, path A on storage switch A.
- 3. Move the cable from HA pair 1, node A, path A to the NSM224 storage port for HA pair 1, node A on storage switch A.
- 4. Move the cable from HA pair 1, node B, path A to the NSM224 storage port for HA pair 1, node B on storage switch A.
- 5. Verify the storage attached to HA pair 1, storage switch A is healthy:

storage port show -port-type ENET

storag	e::*> st	orage po	rt show -po		IET			VLAN
				Speed				
Node	Port	Type	Mode	(Gb/s)		State	Status	ID
node1								
	e0c	ENET	storage		100	enabled	online	30
	e0d	ENET	storage		100	enabled	online	30
	e5a	ENET	storage		100	enabled	online	30
	e5b	ENET	storage		100	enabled	online	30
node2								
	e0c	ENET	storage		100	enabled	online	30
	e0d	ENET	storage		100	enabled	online	30
	e5a	ENET	storage		100	enabled	online	30
	e5b	ENET	storage		100	enabled	online	30

- 6. Replace the storage RCF on shared switch A with the shared RCF file. See Install the RCF on a Cisco Nexus 9336C-FX2 shared switch for further details.
- 7. Verify the storage attached to HA pair 1, storage switch A is healthy:

system health alert show -instance

```
storage::*> system health alert show -instance
There are no entries matching your query.
```

- 8. Move the HA pair 1, NSM224 path B cables from storage switch B to the shared NS224 storage ports for HA pair 1, path B to storage switch B.
- 9. Move the cable from HA pair 1, node A, path B to the shared storage port for HA pair 1, node A, path B on storage switch B.
- 10. Move the cable from HA pair 1, node B, path B to the shared storage port for HA pair 1, node B, path B on storage switch B.
- 11. Verify the storage attached to HA pair 1, storage switch B is healthy:

```
system health alert show -instance
```

```
storage::*> system health alert show -instance
There are no entries matching your query.
```

- 12. Replace the storage RCF file on shared switch B with the shared RCF file. See Install the RCF on a Cisco Nexus 9336C-FX2 shared switch for further details.
- 13. Verify the storage attached to HA pair 1, storage switch B is healthy:

```
system health alert show -instance
```

storage::*> system health alert show -instance
There are no entries matching your query.

14. Verify the storage configuration of HA pair 1 is correct and error free:

system switch ethernet show

storage::*> system switch ethernet show Type Address Model Switch storage-network 172.17.227.5 C9336C Serial Number: FOC221206C2 Is Monitored: true Reason: None Software Version: Cisco Nexus Operating System (NX-OS) Software, Version 9.3(5)Version Source: CDP sh2 storage-network 172.17.227.6 C9336C Serial Number: FOC220443LZ Is Monitored: true Reason: None Software Version: Cisco Nexus Operating System (NX-OS) Software, Version 9.3(5)Version Source: CDP 2 entries were displayed. storage::*>

15. Install the ISLs between shared switch A and shared switch B:

```
sh1# configure
Enter configuration commands, one per line. End with CNTL/Z.
sh1 (config) # interface e1/35-36
sh1 (config-if-range) # no lldp transmit
sh1 (config-if-range) # no lldp receive
sh1 (config-if-range) # switchport mode trunk
sh1 (config-if-range) # no spanning-tree bpduguard enable
sh1 (config-if-range) # channel-group 101 mode active
sh1 (config-if-range) # exit
sh1 (config) # interface port-channel 101
sh1 (config-if) # switchport mode trunk
sh1 (config-if) # spanning-tree port type network
sh1 (config-if) # exit
sh1 (config) # exit
```

- 16. Migrate the cluster networking from the existing cluster switches to the shared switches using the switch replacement procedure and the shared RCF. The new shared switch A is "cs1". The new shared switch B is "cs2". See Replace a Cisco Nexus 9336C-FX2 shared switch and Install the RCF on a Cisco Nexus 9336C-FX2 shared switch for further details.
- 17. Verify that the switched networking config is valid:

```
network port show
```

- 18. Remove the unused cluster switches.
- 19. Remove the unused storage switches.

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