



Migrate from a switchless configuration with SAT storage by reusing the storage switches

ONTAP Systems

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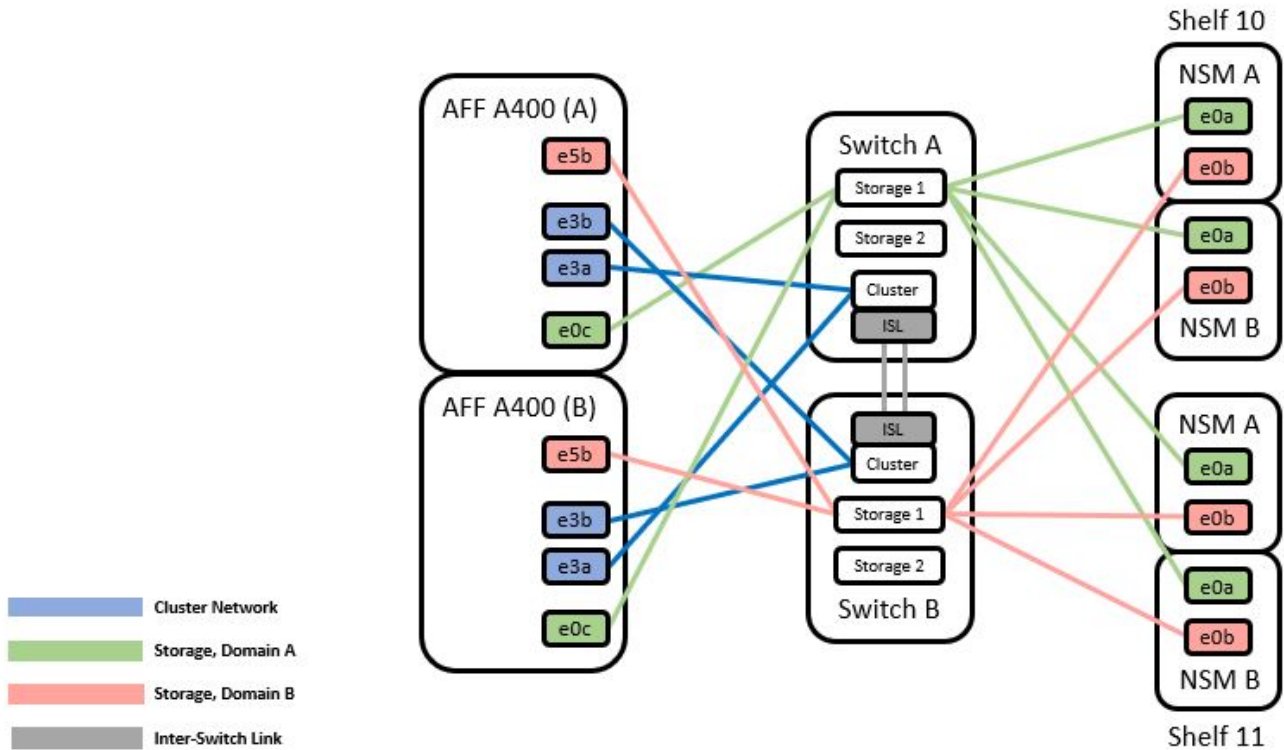
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Migrate the storage switches

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
```

Switch	Type	Address	Model
sh1	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. Verify that the node ports are healthy and operational:

```
storage port show -port-type ENET
```

```
storage::*> storage port show -port-type ENET
```

Node	Port	Type	Mode	Speed (Gb/s)	State	Status	VLAN 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

3. Move the HA pair 1, NSM224 path A cables from storage switch A to the shared NS224 storage ports for

HA pair 1, path A on storage switch A.

4. Move the cable from HA pair 1, node A, path A to the shared storage port for HA pair 1, node A on storage switch A.
5. Move the cable from HA pair 1, node B, path A to the shared storage port for HA pair 1, node B on storage switch A.
6. 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.
```

7. 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.
8. 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.
```

9. 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.
10. 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.
11. 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.
12. 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.
```

13. 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.
14. 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.
```

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. Convert HA pair 1 from a switchless cluster to a switched cluster. Use the cluster port assignments defined by the shared RCF. See [Install NX-OS software and Reference Configuration Files \(RCFs\)](#) for further details.
17. Verify that the switched networking configuration is valid:
`network port show`

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