



# NS0-194<sup>Q&As</sup>

NetApp Certified Support Engineer

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### QUESTION 1

What is the consequence of a loss of connectivity between a Cloud Volumes ONTAP (CVO) instance and Cloud Manager for four or more days?

- A. The CVO instance sends an AutoSupport message.
- B. The CVO instance must be added back manually to Cloud Manager.
- C. Cloud Manager removes the CVO instance from its inventory.
- D. The CVO instance is stopped.

Correct Answer: C Section: (none)

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### QUESTION 2



```
NetApp Release 9.6P3: Sun Sep 22 04:30:45 EDT 2019
System ID: 0537095047 (netapp02n1); partner ID: 0537095086 (netapp02n2)
System Serial Number: 721717000030 (netapp02n1)
System Rev: C3
System Storage Configuration: Quad-Path HA
System ACP Connectivity: Inband Active
All-Flash Optimized: true
Capacity Optimized: false
Backplane Part Number: 111-01459
Backplane Rev: E2
Backplane Serial Number: 021648023564
slot 0: System Board 2.1 GHz (System Board XX C3)
      Model Name:      AFF8040
      Machine Type:    FAS8040
      Part Number:     111-01209
      Revision:        C3
...
slot 0: SAS Host Adapter 0a (PMC-Sierra PM8001 rev. C, SAS, <OFFLINE (hard)>)
Firmware rev:      01.12.09.00
Base WWN:          5:00a098:003a853:10
Phy State:         [0] Disabled
                  [1] Disabled
                  [2] Disabled
                  [3] Disabled
QSFP Vendor:       not available
QSFP Part Number:  not available
QSFP Type:         not available
QSFP Serial Number: not available
slot 0: SAS Host Adapter 0b (PMC-Sierra PM8001 rev. C, SAS, <OFFLINE (hard)>)
Firmware rev:      01.12.09.00
Base WWN:          5:00a098:003a853:14
Phy State:         [4] Disabled
                  [5] Disabled
                  [6] Disabled
                  [7] Disabled
QSFP Vendor:       not available
QSFP Part Number:  not available
QSFP Type:         not available
QSFP Serial Number: not available
slot 0: SAS Host Adapter 0c (PMC-Sierra PM8001 rev. C, SAS, <OFFLINE (hard)>)
Firmware rev:      01.12.09.00
Base WWN:          5:00a098:003a853:18
Phy State:         [0] Disabled
                  [1] Disabled
                  [2] Disabled
                  [3] Disabled
QSFP Vendor:       not available
QSFP Part Number:  not available
QSFP Type:         not available
QSFP Serial Number: not available
slot 0: SAS Host Adapter 0d (PMC-Sierra PM8001 rev. C, SAS, )
Firmware rev:      01.12.09.00
Base WWN:          5:00a098:003a853:1c
Phy State:         [4] Disabled
                  [5] Disabled
                  [6] Disabled
                  [7] Disabled
QSFP Vendor:       not available
QSFP Part Number:  not available
QSFP Type:         not available
QSFP Serial Number: not available
...
slot 0: IB Host Adapter i0 (Mellanox ConnectX MT27518 rev. 0)
Running Firmware:  2.11.534
Debug Firmware: No
Interconnect Port 1:
Port Name:         ib0a
Default GID:       fe80:0000:0000:0000:00a0:9800:0035:3e2c
Base LID:          0xe2c
Active MTU:        4096
Data Rate:         40 Gb/s (4X) QDR
Link State:        ACTIVE
Interconnect Port 2:
Port Name:         ib0b
Default GID:       fe80:0000:0000:0000:00a0:9800:0035:3e2d
Base LID:          0xe2d
Active MTU:        4096
Data Rate:         40 Gb/s (4X) QDR
Link State:        ACTIVE
```



```
slot 0: Intel USB EHCI Adapter u0a (0x47f20000)
boot0 ATF IG eUSB 0xaf01, class 0/0, rev 2.00/11.00, addr 2 7676MB 512B/sect (devproto=0x00)
slot 1: FCVI Host Adapter 1a (QLogic 8324(2672) rev. 2, F-port)
Physical link: UP
FC Node Name: 21:00:00:0e:1e:e9:bc:70
Firmware rev: 8.01.141
Serial No: RFE1709S90753
Host Port Id: 0x80000
FC Packet size: 2048
SFP Vendor: FINISAR CORP.
SFP Part Number: FTLF8529P3BCV-QL
SFP Serial Number: UVF1X7Y
SFP Capabilities: 4, 8 or 16 Gbit
SFP Wavelength: 850nm
Link Data Rate: 16 Gbit
Switch Port: sw02-02:0
Switch Vendor: Brocade Communications, Inc.
Switch Model: 109.1
Switch FW Version: v8.1.2a
slot 1: FCVI Host Adapter 1b (QLogic 8324(2672) rev. 2, F-port)
Physical link: UP
FC Node Name: 21:00:00:0e:1e:e9:bc:71
Firmware rev: 8.01.141
Serial No: RFE1709S90753
Host Port Id: 0x70000
FC Packet size: 2048
SFP Vendor: FINISAR CORP.
SFP Part Number: FTLF8529P3BCV-QL
SFP Serial Number: UVF1GCZ
SFP Capabilities: 4, 8 or 16 Gbit
SFP Wavelength: 850nm
Link Data Rate: 16 Gbit
Switch Port: sw02-01:0
Switch Vendor: Brocade Communications, Inc.
Switch Model: 109.1
Switch FW Version: v8.1.2a
slot 3: FC Host Adapter 3a (Emulex XE201 rev. 48, N-port, )
Board name: 111-02451
Serial Number: FC62549991
Firmware rev: 11.4.277.0
Host Port Id: 0x70200
FC Node Name: 2:000:0090fa:e5e2c3
FC Port Name: 1:000:0090fa:e5e2c3
SFP Vendor: EMULEX
SFP Part Number: AFBR-57F5MZ-ELX
SFP Serial Number: AC1612J0A1K
SFP Capabilities: 4, 8 or 16 Gbit
Link Data Rate: 16 Gbit
Switch Port: sw02-01:2
sw01-01:8.126L1 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (X6N0A01VTODE)
...
sw02-01:8.126L544 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRTODE)
FC-to-SAS Bridge:
sw02-01:8.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104556
sw01-01:8.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104355
sw02-01:8.shelf60: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:8.shelf61: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:8.shelf80: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:8.shelf81: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:8.shelf20: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:8.shelf21: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:8.shelf40: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:8.shelf41: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
slot 3: FC Host Adapter 3b (Emulex XE201 rev. 48, N-port, <UP>)
```



```
Board name: 111-02451
Serial Number: FC62549991
Firmware rev: 11.4.277.0
Host Port Id: 0x80200
FC Node Name: 2:000:0090fa:e5e2c2
FC Port Name: 1:000:0090fa:e5e2c2
SFP Vendor: EMULEX
SFP Part Number: AFBR-57F5MZ-ELX
SFP Serial Number: AC1612J0A1H
SFP Capabilities: 4, 8 or 16 Gbit
Link Data Rate: 16 Gbit
Switch Port: sw02-02:2
sw01-02:8.126L1 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (X6N0A01VTODE)
...
sw02-02:8.126L544: NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRTODE)
FC-to-SAS Bridge:
sw02-02:8.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104556
sw01-02:8.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104355

sw02-02:8.shelf60: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:8.shelf61: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:8.shelf80: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:8.shelf81: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:8.shelf20: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:8.shelf21: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:8.shelf40: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:8.shelf41: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
...
slot 4: FC Host Adapter 4a (Emulex XE201 rev. 48, N-port, )
Board name: 111-02451
Serial Number: FC62547357
Firmware rev: 11.4.277.0
Host Port Id: 0x70300
FC Node Name: 2:000:0090fa:e5e52d
FC Port Name: 1:000:0090fa:e5e52d
SFP Vendor: EMULEX
SFP Part Number: AFBR-57F5MZ-ELX
SFP Serial Number: AA1612J0B4T
SFP Capabilities: 4, 8 or 16 Gbit
Link Data Rate: 16 Gbit
Switch Port: sw02-01:3
sw01-01:9.126L27 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (X6N0A01VTODE)
...
sw02-01:9.126L518: NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRTODE)
FC-to-SAS Bridge:
sw01-01:9.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104551
sw02-01:9.126L0 : ATTO FibreBridge7500N 2.77 FB7500N104550

sw02-01:9.shelf60: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:9.shelf61: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:9.shelf80: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-01:9.shelf81: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:9.shelf20: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:9.shelf21: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:9.shelf40: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-01:9.shelf41: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
...
slot 4: FC Host Adapter 4b (Emulex XE201 rev. 48, N-port, )
Board name: 111-02451
Serial Number: FC62547357
Firmware rev: 11.4.277.0
Host Port Id: 0x80300
FC Node Name: 2:000:0090fa:e5e52c
FC Port Name: 1:000:0090fa:e5e52c
SFP Vendor: EMULEX
SFP Part Number: AFBR-57F5MZ-ELX
SFP Serial Number: AA1612J0B43
SFP Capabilities: 4, 8 or 16 Gbit
Link Data Rate: 16 Gbit
Switch Port: sw02-02:3
sw01-02:9.126L27 : NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (X6N0A01VTODE)
...
sw02-02:9.126L518: NETAPP X447_TPM4V800AMD NA01 762.8GB 520B/sect (Z6R0A0RRTODE)
FC-to-SAS Bridge:
sw01-02:9.126L0 : ATTO FibreBridge7500N 2.96 FB7500N104551
sw02-02:9.126L0 : ATTO FibreBridge7500N 2.77 FB7500N104550

sw02-02:9.shelf60: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:9.shelf61: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:9.shelf80: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw02-02:9.shelf81: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:9.shelf20: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:9.shelf21: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:9.shelf40: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
sw01-02:9.shelf41: DS2246 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
...
```



Which type of MetroCluster is shown in the exhibit?

- A. 2-node stretch MetroCluster
- B. 4-node MetroCluster IP
- C. 4-node Fabric-Attached MetroCluster
- D. 4-node stretch MetroCluster

Correct Answer: C Section: (none)

---

### QUESTION 3

You observe cyclic redundancy check (CRC) errors on a network port from a node in the cluster.

Which two components would you consider reseating or replacing before you perform actions on the physical port where the errors are reported from the node? (Choose two.)

- A. SFP
- B. cluster interconnect switch
- C. up-stream switch
- D. cable

Correct Answer: CD Section: (none)

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### QUESTION 4

Which NetApp technology enables you to perform block-based replication from NetApp Element software to Cloud Volumes ONTAP?

- A. SyncMirror
- B. SnapMirror
- C. Cloud Sync
- D. MetroCluster

Correct Answer: B Section: (none)

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### QUESTION 5

Your customer's MetroCluster has generated a "DISK REDUNDANCY FAILED" message.

Netapp-EmA:

Tue Jan 14 04:12:12 CET [netapp-EmA:cf.rv.notConnected:error]: HA interconnect: Connection for '\\cfo\_rv\\'



failed.

Tue Jan 14 04:12:13 CET [netapp-EmA:rv.connection.torndown:info]: HA interconnect: cfo\_rv1 is torn

down on NIC 1.

Tue Jan 14 04:12:13 CET [netapp-EmA:cf.rv.notConnected:error]: HA interconnect: Connection for

\\cfo\_rv\\1 failed.

Tue Jan 14 04:12:15 CET [netapp-EmA:rv.connection.torndown:info]: HA interconnect: cfo\_rv2 is torn

down on NIC 1.

Tue Jan 14 04:12:18 CET [netapp-EmA:cf.rv.notConnected:error]: HA interconnect: Connection for

\\cfo\_rv\\2 failed. Tue Jan 14 04:12:19 CET [netapp-EmA:bridge.removed:info]: FC-to\_SAS bridge siteB\_2:13.126L0 [ATTO FibreBridge6500N 1.61] S/N [FB7500N111161] was removed Tue Jan 14 04:12:19 CET [netappEmA:bridge.removed:info]: FC-to\_SAS bridge siteB\_2:5.126L0 [ATTO FibreBridge6500N 1.61] S/N [FB7500N111160] was removed

Netapp-EmB: Tue Jan 14 04:12:12 CET [netapp-EmB:cf.rv.notConnected:error]: HA interconnect: Connection for \\cfo\_rv\\ failed. Tue Jan 14 04:12:12 CET [netapp-EmB:rv.connection.torndown:info]: HA interconnect: cfo\_rv2 is torn down on NIC 1. Tue Jan 14 04:12:13 CET [netapp-EmB:rv.connection.torndown:info]: HA interconnect: cfo\_rv1 is torn down on NIC 1. Tue Jan 14 04:12:13 CET [netapp-EmB:cf.rv.notConnected:error]: HA interconnect: Connection for \\cfo\_rv\\1 failed. Tue Jan 14 04:12:18 CET [netapp-EmB:cf.rv.notConnected:error]: HA interconnect: Connection for \\cfo\_rv\\2 failed. Tue Jan 14 04:12:19 CET [netapp-EmB:bridge.removed:info]: FC-to\_SAS bridge siteA\_2:13.126L0 [ATTO FibreBridge6500N 1.61] S/N [FB7500N111167] was removed Tue Jan 14 04:12:19 CET [netappEmB:bridge.removed:info]: FC-to\_SAS bridge siteA\_2:5.126L0 [ATTO FibreBridge6500N 1.61] S/N [FB7500N111164] was removed

Referring to the messages shown in the exhibit for each node, which component is causing the problem?

- A. the ATTO bridge on siteB\_2
- B. the SAN switch siteA\_2
- C. the SAN switch siteB\_2
- D. the ISL between siteA and site B

Correct Answer: D Section: (none)

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