

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

NetApp Certified Support Engineer

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### QUESTION 1

Which three techniques are used in ONTAP to improve storage efficiencies? (Choose three.)

- A. compression
- B. encryption
- C. compaction
- D. ADP
- E. thin provisioning

Correct Answer: ACE Section: (none)

Reference: <https://cloud.netapp.com/blog/storage-efficiency-success-stories-with-cloud-volumes-ontap>

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### QUESTION 2

In ONTAP 9.6, activity on the command line is found in which log?

- A. audit.log
- B. messages.log
- C. command-history.log
- D. mgwd.log

Correct Answer: A Section: (none)

Reference: [https://kb.netapp.com/Advice\\_and\\_Troubleshooting/Data\\_Storage\\_Software/ONTAP\\_OS/Overview\\_of\\_ONTAP\\_Logs](https://kb.netapp.com/Advice_and_Troubleshooting/Data_Storage_Software/ONTAP_OS/Overview_of_ONTAP_Logs)

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### QUESTION 3

```
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 Nc: 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 Nc: 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)

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#### QUESTION 4

You want to use the supported method to upgrade the ONTAP version of a Cloud Volumes ONTAP instance from ONTAP 9.5 to ONTAP 9.6.

In this scenario, which NetApp tool accomplishes this task?

- A. Cloud Manager
- B. Cloud Insights
- C. Active IQ Unified Manager
- D. ONTAP System Manager

Correct Answer: D Section: (none)

Reference: [https://docs.netapp.com/us-en/occm/task\\_updating\\_ontap\\_cloud.html#suspending-snapmirrortransfers](https://docs.netapp.com/us-en/occm/task_updating_ontap_cloud.html#suspending-snapmirrortransfers)

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#### QUESTION 5

You are using FCP and iSCSI protocols from your clients with ONTAP as the target. You want to ensure that storage failover (SFO) works correctly for your clients.

In this scenario, which two features on the initiator and the target will accomplish this task? (Choose two.)

- A. LACP
- B. MPIO
- C. ALUA
- D. SCSI

Correct Answer: BC Section: (none)

Reference: <https://www.netapp.com/media/10680-tr4080.pdf>

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#### QUESTION 6

What are two reasons to use HTTPS as the transport method for AutoSupport delivery for Active IQ? (Choose two.)

- A. Only HTTPS transfers are compressed.
- B. AutoSupport OnDemand (AOD) is supported.
- C. HTTPS is encrypted.
- D. HTTPS does not use a standard port.

Correct Answer: BC Section: (none)

Reference: <https://www.netapp.com/media/10438-tr-4444.pdf>

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#### QUESTION 7

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 8

You are asked to replicate 15 of 20 volumes and the network configuration of your storage virtual machine to your other data center.

In this scenario, which NetApp technology should you use?

- A. SnapMirror Synchronous
- B. SVM DR
- C. MetroCluster
- D. SVM peering

Correct Answer: A Section: (none)

Reference: <https://www.netapp.com/pdf.html?item=/media/19369-tr-4832.pdf>

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#### QUESTION 9

A customer ordered a FAS2720 cluster with 8 TB SATA drives. The customer wants to use the Advanced Drive

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Partitioning (ADP) feature to avoid consuming the high capacity drives for the root aggregate. Before you use the cluster setup, you issue the aggr status command and notice that ADP is not being used.

In this scenario, what would you use to implement ADP?

- A. loader prompt
- B. special boot menu
- C. nodeshell
- D. SP prompt

Correct Answer: A Section: (none)

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#### QUESTION 10

You want to update your storage system and are concerned about the compatibility of the SAN components and the host environment.

In this scenario, which two actions should you take to verify compatibility? (Choose two.)

- A. Use the Interoperability Matrix Tool.
- B. Use Active IQ Interop Advisor.
- C. Upload AutoSupports to Active IQ.
- D. Use the Active IQ Config Advisor.

Correct Answer: AD Section: (none)

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