NS0-520 Q&As

NetApp Certified Implementation Engineer - SAN ONTAP

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QUESTION 1

Which NetApp tool provides a detailed inventory of SAN components?

A. Active IQ OneCollect

B. Interoperabilty Matrix Tool

C. Active IQ config advisor

D. Hardware Universe

Correct Answer: A

ActiveIQ OneCollect is a tool from NetApp that will create an inventory of your environment that will include hosts, switches and storage and validate it against the IMT (Interoperability Matrix Tool).

QUESTION 2


```
::> volume show -vserver svm1 -fields space-guarantee
vserver   volume space-guarantee
--------------------------------------------------------
svm1      vol1   volume

::> tun show -fields space-reserve
vserver path                         space-reserve
--------------------------------------------------------
svm1      /vol/vol1/qtreel/lun1  disabled
```

Referring to the exhibit, which container gains space savings from deduplication, compression and compaction?

A. the aggregate

B. the qtree

C. the volume

D. the LUN

Correct Answer: C

QUESTION 3

When planning out a new FC SAN implementation for a AFF cluster, which two variables should be considered for a highly-available, resilient solution? (Choose two.)

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A. Length of LC/LC optic cables

B. Multiple disk shelves

C. Multiple PDUs connected to separate circuits

D. Data-fabric zones using multiple switches

Correct Answer: CD

QUESTION 4

The ESX host reports inconsistent performance for iSCSI-based connectivity. In this scenario, what would cause this problem?

A. The host and storage are connected to different switches.

B. The flow control was disabled on the storage.

C. The hardware initiators were used instead of software.

D. The flow control is enabled on the storage.

Correct Answer: B

QUESTION 5

Exhibit.

```
Vserver Name: AFF_SAN_DEFAULT_SVM
           LUN Path: /vol/OraFinProd_oradata_OraFinProd_1/oradata_OraFinProd_1
        Volume Name: OraFinProd_oradata_OraFinProd_1
         Qtree Name: ""
           LUN Name: oradata_OraFinProd_1
           LUN Size: 2.50GB
            OS Type: linux
  Space Reservation: disabled
      Serial Number: 807Jd]I3aoSX
Serial Number (Hex): 3830374a645d4933616f5358
            Comment:
Space Reservations Honored: false
   Space Allocation: enabled
              State: online
           LUN UUID: 6b328b3e-889e-4512-a62b-6e830a22861b
             Mapped: mapped
         Block Size: 512
```

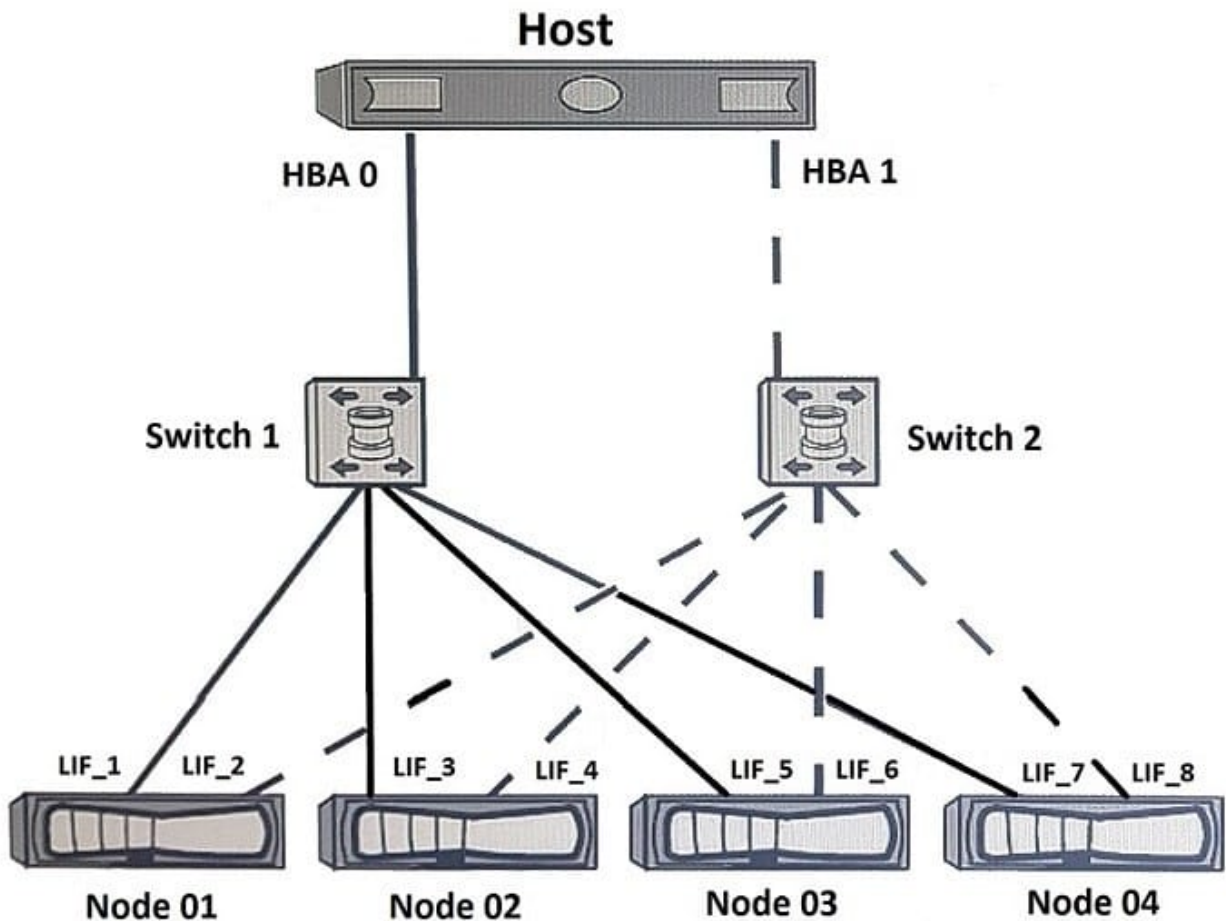The exhibit shows the lnn show command output for the oradata oraFinProd_l LUN.

Which two statements ate correct about the LUN\\'? (Choose two.)

A. The LUN Is thick provisioned.

B. The LUN supports SCSI Tin unmap.

C. The LUN type is Windows.

D. The LUN is thin provisioned.

Correct Answer: BD

QUESTION 6

You configured a SAN host with a 4-node ONTAP 9.5 cluster that uses default settings. All paths are available from the host to the four nodes. You have a requirement to see only two paths to each LUN. One path is optimized and the other is non-optimized.

In this scenario, which NetApp SAN feature supports this requirement?

A. portsets

B. SLM

C. VLANs

D. igroups

Correct Answer: C

QUESTION 7

A4-node ONTAP FAS9000 cluster was used to serve I/O from six RedHat 7.3 servers. The servers were configured with maximum, queue depth.

For production purposes, an additional 60 similarly configured hosts were added to the environment. Later, the hosts started reporting random QFull errors, and the aggregated performance degraded.

Which two solutions would alleviate the QFull errors and performance problems? (Choose two.)

A. Remove Selective LUN Mapping (SIM) from the 4-node FAS9000 cluster.

B. Download the latest FC HBA driver, firmware, and BIOS, and deploy them on the hosts.

C. Configure and use additional FC target HBAs in the FAS9000 cluster.

D. Reduce FC HBA gueue depth on the hosts.

Correct Answer: CD

QUESTION 8

```
Question    Exhibit
scaling::> run -node scaling-01 -command fcp topology show
Switches connected on adapter 0c:
Switch Name:      switch
Switch Vendor:    Cisco Systems, Inc.
Switch Release:   4.2(1)N1(1)
Switch Domain:    75
Switch WWN:       23:e9:00:0d:ec:b4:94:01

Port    Port       WWPN                     State     Type    Attached WWPN
vfc1  20:00:00:0d:ec:b4:94:3f            Offline   none
vfc2  20:01:00:0d:ec:b4:94:3f            Offline   none
vfc3  20:02:00:0d:ec:b4:94:3f            Offline   none
vfc4  20:03:00:0d:ec:b4:94:3f            Offline   none
vfc5  20:04:00:0d:ec:b4:94:3f            Offline   none
2/1   20:41:00:0d:ec:b4:94:00            Offline   none
2/2   20:42:00:0d:ec:b4:94:00            Online    F-port  50:0a:09:80:00:05:a2:40
2/3   20:43:00:0d:ec:b4:94:00            Online    F-port  50:0a:09:85:8d:9d:bf:ce
2/4   20:44:00:0d:ec:b4:94:00            Online    F-port  50:0a:09:85:8d:ad:c0:02
```

A customer has an AFF A700 connected to a Cisco switch and has verified connectivity but cannot see any LUNs. The customer issued the run -node scaling-01 -command fcp topology show command to verify the connection. Referring to the exhibit, what needs to be enabled on the Cisco switch?

A. Trunking needs to be enabled.

B. VSAN needs to be enabled.

C. NPIV needs to be enabled.

D. VFC needs to be enabled.

Correct Answer: D

QUESTION 9

When booting your NetApp storage system for the first time the system fails to boot.

What should you do first to address this problem?

A. You turn off your storage system and disk shelves, and then turn on the disk shelves. You then check the quick reference card that came with the disk shelf for information about LED responses.

B. You re-download the boot image to the compact flash card, then reboot the system.

C. You look for a description of the problem on the LCD and console. You then follow the instructions, if provided, on the LCD and console.

D. You verify disk shelf compatibility and check the disk shelf IDs to verify that the disk shelf 1 (for DS14 series) must be connected to your system.

Correct Answer: C

QUESTION 10

You install an ASA AFF A400 system with 32 GB FC SFP+ modules in port 0e and 0f. After creating the SVM and configuring the FCP protocol, the physical port stays offline. Referring to the exhibit which statement is correct?

```
cluster1::> system hardware unified-connect show
                          Current   Current    Pending  Pending   Admin
Node           Adapter  Mode      Type       Mode     Type      Status
-------------  -------  -------   ---------  -------  --------- ------------
cluster1-01    0e       cna       target     -        -         offline
cluster1-01    0f       cna       target     -        -         offline
```

A. The current type of the ports must be configured as an initiator

B. The current mode to the ports must be configured as an FC port

C. The current mode for the ports must be set as an NVMe/FC port

D. The admin status is manually set to down

Correct Answer: B

Before using your UTA ports on a FC infraestructure, you need to modify the current mode from CNA to FC. You need to set the ports offline before you modify that parameter.

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You can find more information on this link:

http://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm- sanag%2FGUID-E2CD31BE-28EC-468E-AF49-83A641575799.html

QUESTION 11

| Question | Exhibit |

```
::> volume efficiency show -inst
                                      Vserver Name: svm1
                                       Volume Name: vol1
                                       Volume Path: /vol/vol1
                                             State: Enabled
                                            Status: Idle
                                          Progress: Idle for 06:12:36
                                              Type: Regular
                                          Schedule: -
                            Efficiency Policy Name: inline-only
                                                 . . .
                                                 . . .
                                       Compression: true
                                Inline Compression: true
                                Constituent Volume: false
                                      Inline Dedupe: true
                                   Data Compaction: false
                     Cross Volume Inline Deduplication: false
                  Cross Volume Background Deduplication: false
::> df -s -vserver svm1 -volume vol1
Filesystem          used         total-saved    %total-saved    deduplicated    %
deduplicated     compressed     %compressed
/vol/vol1/          29524919032  14762459516            50%      14762459516   50%      0      0%
```

You are troubleshooting high CPU use on a FAS8200 with all SAS HDDs. You have SAN hosts with LUNs in a volume named vol1. You want to reduce CPU use and maintain storage efficiencies. Referring to the exhibit which three actions will accomplish this task? (Choose three.)

A. Disable compression.

B. Enable cross-volume deduplication.

C. Disable inline deduplication.

D. Enable post process deduplication.

E. Enable data compaction.

Correct Answer: CDE

QUESTION 12

Which formula is appropriate for calculating target port Queue Depth?

A. The number of LIFs using a physical port * 256

B. The sum of the Queue Depth setting for all hosts using a physical port

C. The number of LIFs using the physical port * Maximum Host HBA Queue Depth setting

D. The number of physical ports * 2048

Correct Answer: C

QUESTION 13

A customer\\'s NetApp infrastructure is reaching end-of-life (EOL), and they want to inventory their NetApp cluster. The customer wants to make sure that the proposed technical refresh satisfies their growing data demands. Which two tools would you use to help with this recommendation? (Choose two.)

A. Upgrade Advisor

B. OneCollect

C. Config Advisor

D. Active IQ

Correct Answer: AC

QUESTION 14

What is a SAN best practice when initially configuring a Linux FC boot LUN?

A. Install the Host Utilities in the guest Linux OS.

B. Map the WWPN of the target.

C. Disable the HBA port with the host\\'s BIOS.

D. Configure multipath to the LUN.

Correct Answer: B

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMP1217221

QUESTION 15

Which configuration for primary block (FC and iSCSI) data does NetApp best practices recommend? (Choose two.)

A. single controller single shelf

B. single controller multiple shelves

C. dual controller single shelf

D. dual controller multiple shelves

Correct Answer: CD

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