NS0-520 Q&As

NetApp Certified Implementation Engineer - SAN ONTAP

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QUESTION 1

An administrator wants to implement FCoE for connectivity of an AFF A200 using VLAN 3011 for fabric traffic across VSAN 11. When configuring the Nexus switches for FCoE connectivity, which two actions are required? (Choose two.)

A. Create a new virtual FC interface and bind the physical interface to it.

B. Add the virtual interface to the VSAN.

C. Create a port channel and add all of the physical network ports that will have FCoE LIFs.

D. Add the adapter MAC address to the network port configuration where the node is connected.

Correct Answer: BC

QUESTION 2

You are configuring a new Netapp ONTAP cluster and are connecting the nodes to Cisco MDS SAN switches. You connect one of the nodes to switch port fc1/11 and run the commands that are shown in the exhibit. The SAN LIFs are enabled but are not operationally online, and none of the SAN hosts can access their LUNs on the ONTAP cluster.

In this scenario, which configuration would cause this problem?

```
switch# show vsan 100
vsan 100 information
        name:VSAN0100 state:active
        in-order guarantee:no interoperability mode:no
        loadbalancing:src-id/dst-id/oxid

switch# show flogi database interface fc1/11
INTERFACE   VSAN    FCID        PORT NAME                NODE NAME
----------  ------  ---------   -----------------------  ----------------------
fc1/11      100     0xa002ef    50:0a:09:81:80:d1:81:f3  50:0a:09:80:80:d1:81:f3
```

A. Interoperability mode is not enabled on the switches

B. The in-order guarantee is not enabled on the switch

C. NPV is not enabled on the switches

D. NPIV is not enabled on the switches

Correct Answer: D

in-order guarantee and interoperability mode are default configuration on a VSAN NPV is the core switch where NPIV is going to be enabled. The NPV core switch is defined as an upstream switch on which NPIV is enabled. The NPV core switch receives traffic that is passed to it from a downstream switch that has NPV enabled on it. A switch that is in NPV mode does not switch traffic; instead, it passes traffic to the upstream NPV core switch on which NPIV is enabled. After NPIV is enabled on the core NPV switch, the port should automatically come up (unless there are other issues). You can find more information on this link:
https://www.cisco.com/c/en/us/td/docs/storage/san_switches/mds9000/sw/rel_3_x/troubleshooting/guide/trblgd/ts_npv.html#wp131957

QUESTION 3

Question | Exhibit

Supported Adapter Cards - AFF A700 9.5 ONTAP — Adapter Card Help Guide

Platform Configuration: Single Chassis HA Pair

Priority	Category	Bus Type	Mktg Part No	Images	LED	Mig Part No	Description	Optical Module	Cables	Supported Speed (s)	Min ONTAP	MAX Qty[1]	Priority Slot Assegme
1	NVRAM	IO Module	X93140A		View	111-03190	NVRAM10 32GB	Not Supported	View		9,1RC2, 9,2RC1, 9,3RC1, 9,4RC1, 9,5RC1	1	6
2	Networking	IO Module	X91440A[2]		View	111-02590	2p 40GbE NIC Cu/Op	QSFP Optional	View	ETH: 10/40 Gbps	9,1RC2, 9,2RC1, 9,3RC1, 9,4RC1, 9,5RC1	6[2]	4,6,9,1,10,2,11,3,7,6
3	Block Access	IO Module	X91135A		View	111-03789	4p 32Gb FC SFP - Op	SFP + Included	View	FC:8/16/32 Gbps FC:16/32 Gbps	9,3RC1, 9,4RC1, 9,5RC1	6	9,1,10,2,11,3,7,6
4	Block Access	IO Module	X91134A		View	111-03431	2p 32Gb FC Op	SFP + Included	View	FC:8/16/32 Gbps FC:16/32 Gbps	9,1RC2, 9,2RC1, 9,3RC1, 9,4RC1, 9,5RC1	6	9,1,10,2,11,3,7,6,8
5	Block Access	IO Module	X91143A		View	111-02397	4p 16Gb|10Gb UTA2 Cu/Op	SFP + Optional	View	ETH: 1/10 Gbps FC:4/8/16 Gbps	9,1RC2, 9,2RC1, 9,3RC1, 9,4RC1, 9,5RC1	6	9,1,10,2,11,3,7,6,8

A customer wants to add a 2-port, 32 Gb FC card to support NVMe in an AFF A700 2-node cluster. Currently, there are cards in slots 1, 2, 4, 6, 8, and 9. Referring to the exhibit, what is the number of the slot that should be used?

A. 10

B. 3

C. 5

D. 7

Correct Answer: C

QUESTION 4

Click the Exhibit button.

```
switch# show npv status

npiv is enabled

External Interfaces:
====================
  Interface: ext17, FCID: 0x000000, State: Failed(neighbor on the upstream port is not fabric)

  Number of External Interfaces: 3
```

An administrator is trying to configure a multiple-hop Cisco MDS switch and is receiving the error shown in the exhibit. In this scenario, which action will solve this problem?

A. Configure the physical link of interface ext17 as an F_Port.

B. Configure the external interface to a different virtual SAN (VSAN) on both ends.

C. Connect the external link to a Cisco MDS switch.

D. Turn N_Port ID virtualization (NPIV) off.

Correct Answer: C

Reference: https://www.cisco.com/en/US/products/ps5989/prod_troubleshooting_guide_chapter09186a00808c82f1.html

QUESTION 5

You are configuring FC ports on front-end SAN switches for a 4-node Metrocluster configuration across two data centers. You need to ensure that each data center serves FC LUNs when an FC port goes offline in one data center. In this scenario, which front end switch setting must be modified to avoid overlap when a new port comes online?

A. NPIV enabled

B. NPIV reject

C. WWPN reject

D. ANA mapped

E. WWNN reject

Correct Answer: A

Best practice: NPIV is required for FC LIFs to operate correctly. Before creating FC LIFs, make sure that any fabrics attached to an ONTAP system have NPIV enabled.

You can find more information on this link:

https://www.netapp.com/pdf.html?item=/media/10680-tr4080pdf.pdf

QUESTION 6

What are two considerations when creating a physical reference drawing for adding an ASA AFF A700 system to your existing FC SAN environment? (Choose two)

A. available cooling

B. Hardware Compatibility

C. available rack space

D. switch connectivity

Correct Answer: CD

A physical reference drawing should be used to know the rack space and the distance between that space and the equipment to which it will be connected ... Being an ASA, it must be connected to a SAN switch

QUESTION 7

You are asked to separate production FC traffic from test development FC traffic. In this scenario, at a minimum, which two configurations would accomplish this task? (choose two)

A. VLANs

B. Shared igroup

C. SVMs

D. Cisco VSANs

Correct Answer: CD

SVMs will help us to separate traffic creating production_LIFs and development_LIFs VLANs will not affect anything, because it is asking about FC traffic Cisco VSans will help us to create separate virtual SANs within the same switch.

QUESTION 8

You want to access and mount a Linux L.UN using only iSCSl. In the past, the LUN ha;; been accessed using FC. What must you do to accomplish this task?

A. Change the LUN protocol type to (SCSI.

B. Create a new iSCSI igroup. and change the LUN mapping from the original to the new igroup.

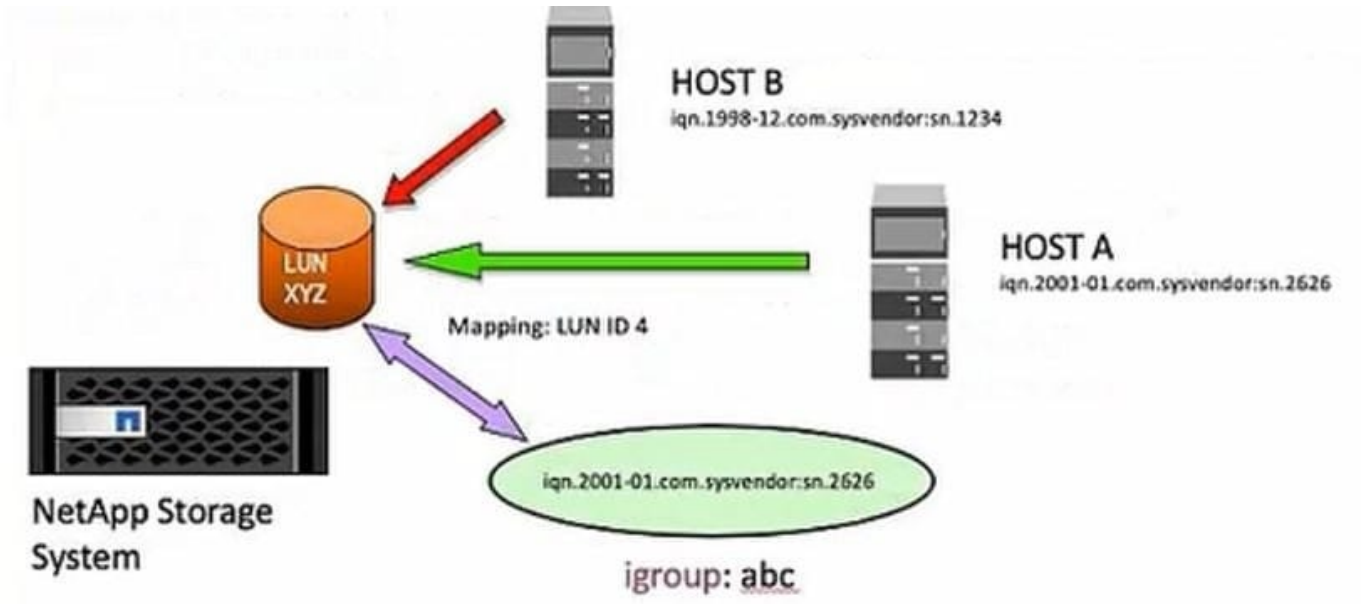
C. Create a new iSCSI Igroup and map the LUN to both the new and existing FC igroup.

D. Add an iSCSI protocol type to the existing igroup so that the LUN can be accessed by both FC and iSCSI hosts.

Correct Answer: B

QUESTION 9

Referring to the exhibit, which security feature would guarantee that the host A system that is mapped to LUN XYZ on the NetApp storage system is the only host that access the LUN?



A. igroup setup with the IQN of the ISCSi software initiator on Host A.

B. CHAP configured on HOST A and the NetApp Storage System

C. igroup setup with no IQNs

D. IPsec configured on both host A and the NetApp Storage System

Correct Answer: B

The Challenge Handshake Authentication Protocol (CHAP) enables authenticated communication between iSCSI initiators and targets. When you use CHAP authentication, you define CHAP user names and passwords on both the initiator and the storage system.

During the initial stage of an iSCSI session, the initiator sends a login request to the storage system to begin the session. The login request includes the initiator's CHAP user name and CHAP algorithm. The storage system responds with a CHAP challenge. The initiator provides a CHAP response. The storage system verifies the response and authenticates the initiator. The CHAP password is used to compute the response.

Graphical user interface, text, application, email You can find more information on this link: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm- sanag%2FGUID-3FC8A37A-FFCC-4070-A9F0-1B9B3FB79BF8.html

QUESTION 10

You are designing a new 4-node AFF A400 SAN cluster with 20 ISCSI hosts. Each AFF A400 node will have four data LIFs. Each ISCSI host needs to access every LUN over two LIFs per node on every SAN node.

In this scenario, which Netapp SAN feature enable this connectivity?

A. Port sets

B. HBA queue depth

C. Selective LUN mapping

D. Asymmetric namespace

Correct Answer: A

SLM will choose 4 LIFs per node, being 8 LIF total (owner and HA partner), enabling portsets will help to limit the ports per node... that way we can stablish only 2 LIF per node. Creating port sets and binding igroups to port sets In addition to using Selective LUN Map (SLM), you can create a port set and bind the port set to an igroup to further limit which LIFs can be used by an initiator to access a LUN. If you do not bind a port set to an igroup, then all of the initiators in the igroup can access mapped LUNs through all of the LIFs on the node owning the LUN and the owning node\\'s HA partner. You can find more information on this link: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm- sanag%2FGUID-5CC27202-A43F-429F-AB13-C70E7CD58E09.html

QUESTION 11

When does Fractional Reservation reserve space from the volume?

A. Volume Creation

B. LUN Creation

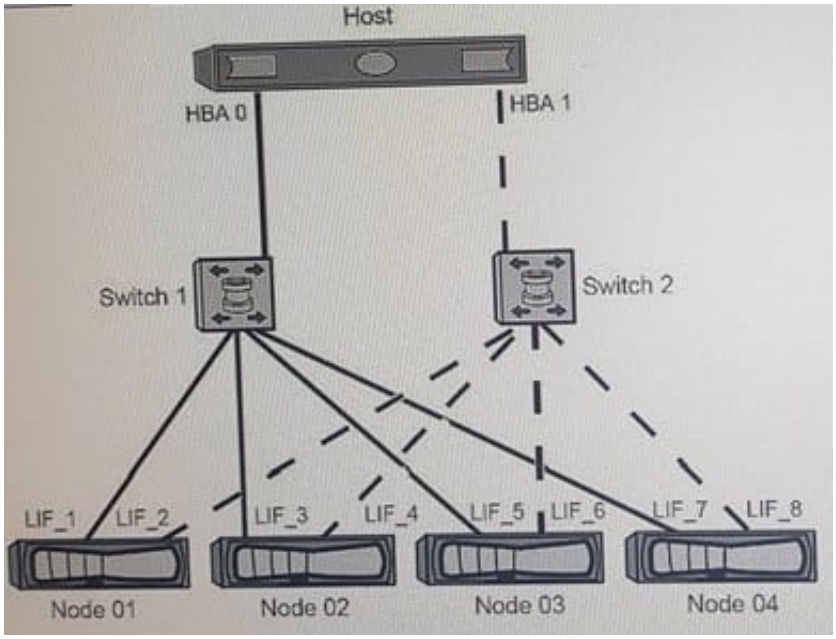
C. LUN SnapMirror

D. Volume Snapshot

Correct Answer: D

QUESTION 12

Exhibit.



A customer is testing a dual-fabric FC SAN configuration as shown in the exhibit. The zones are implemented on the switches shown below.

Switch 1 / Zone 1: HBA 0, LIF_1, LIF_3, LIF_5, and LIF_7
Switch 2 / Zone 2: HBA 1, LIF_2, LIF_4, LIF_6, and LIF_8

IF all the nodes are in the SLM reporting nodes list, how many paths per LUN should the customer expect when simulating a node failure by powering off Node 04?

A. 4 paths

B. 6 paths

C. 8 paths

D. 2 paths

Correct Answer: B

QUESTION 13

You have deployed an AFF 400 systems for ISCSI workloads and want to ensure maximum performance to the hosts.

In this scenario, which two steps should be configured? (Choose two)

A. Enable Jumbo frames on the network switch

B. Enable Jumbo frames on the LIF

C. Enable Jumbo frames on the broadcast domain

D. Enable Jumbo frames on the IPspace

Correct Answer: AC

Changing the Network port settings at the broadcast domain level will change all ports in that broadcast domain sequentially, or one at the time. This will only cause a disruption if the port is a single point of

failure.

Enable jumbo frames (typically MTU of 9000).All devices in the data path, including initiators, targets, and switches, must support jumbo frames. Otherwise, enabling jumbo frames actually reduces network

performance substantially.

You can find more information on this link:

https://kb.netapp.com/Advice_and_Troubleshooting/Data_Storage_Software/ONTAP_OS/How_to_enable_jumbo_frames_in_ONTAP_9_and_clustered_Data_ONTAP_8.3

QUESTION 14

You have a 100GB volume with the space guarantee set to volume, This volume contains two space reserved 20 GB LUNs. Both LUNs are at 50% use. You then create a snapshot copy of the volume. No modifications were performed since the snapshot copy was completed, and all actions were performed using the CLI. In this scenario, how much free space does the volume have?

A. 60 GB

B. 20 GB

C. 40 GB

D. 80 GB

Correct Answer: A

Both LUN created are inheriting the space reserved parameter from its volume parent, so both LUNs are thick provisioned using 20 GB each one of them and the snapshots have not increased because there has not been any changes since their creation 100GB - 20 GB - 20GB

QUESTION 15

You want to use ANA on SUSE Enterprise Linux. Which two components need to be verified in this scenario? (choose two)

A. Verify the version of ONTAP

B. Verify the version of SUSE Enterprise Linux

C. Verify that ALUA must be enabled

D. Verify that the ANA driver is installed

Correct Answer: AB

ANA Supportability

NVMe/FC is supported on ONTAP 9.6 or later for the following versions of SLES:

SLES15 SP1

SLES15 SP1 host can run both NVMe/FC, and FCP traffic through the same fibre channel initiator adapter ports.

You can find more information on this link:

https://docs.netapp.com/us-en/ontap-sanhost/nvme_sles15_sp1.html#supportability