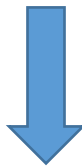


NetApp Certification NS0-507 Exam



- **Vendor: Network Appliance**
- **Exam Code: NS0-507**
- **Exam Name: NetApp Certified Implementation Engineer – SAN, ONTAP**

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QUESTION 1

You are performing storage failover testing on a 2-node FAS2650 cluster named CI01. A Windows Server 2012 R2 host has 10 FC LUNs mapped from the cluster. After CI01-01 takes over CI01-02, the windows host loses access to all of its LUNs. Which statement describes what is happening in this scenario?

- A. Switch zoning does not exist between the windows initiators and the CI01-02 targets
- B. NPIV is not enabled on the cluster
- C. Switch zoning does not exist between the windows initiators and the CI01-01
- D. NPIV is not enabled on the FC switches

Answer: C

QUESTION 2

What are three considerations when creating a physical reference diagram of an FC SAN? (Choose three.)

- A. Hardware is compatible
- B. FC SAN zoning is available
- C. Power connectivity is available
- D. FC port connectivity is available
- E. FC switches are available

Answer: BDE

QUESTION 3

A LUN copy has been created by using the lun copy command. To allow the copy to be seen on the same host, what would you do?

- A. Create a new portset.
- B. Map the LUN to the same igroup.
- C. Change the serial number of the copied LUN.
- D. Configure SLM on the new node.

Answer: B

QUESTION 4

A customer has 1 TB volume with space guarantee set to volume. Two 100 GBs LUNs are created in the volume with LUN reservation enabled and no snapshot copies exist. In this scenario, how much space will be shown as used in the volume?

- A. 0 GB
- B. 200 GB
- C. 400 GB
- D. 100 GB

Answer: B

QUESTION 5

Referring to the exhibit, which zones use only World Wide Port Name Zoning?

```
switch:admin> cfgshow
    Defined configuration: DefZone1

Effective configuration.
No effective configuration: (No Access)
bawn 3,5; 4,8
bond 10:00:05:1e:a9:20:00:01; 3,5
brain 11,4; 22,1; 33,6
jake 4,7; 8,9; 14,11
jeff 20:00:00:05:1e:a1:cd:02; 20:00:00:02:1e:a1:cd:04
jones 7,3; 4,5
zeus 4,7; 6,8;9,2
```

- A. Bond
- B. Jeff
- C. Jake
- D. Zeus

Answer: B

Explanation:

Worldwide port name zoning refers to zoning that uses the world wide port names of devices that are being zoned, and not the switch port name as the others are doing.

- Bawn is using switch port zoning
- Bond is using a combination of the two
- Brain is using switchport
- Jake is using switchport
- Jeff is using WWPN zoning
- Jones and Zeus are using switch port

QUESTION 6

A new server has been installed in your environment, but it is unable to see its NetApp boot LUN. You have narrowed the problem down to the zoning on your Cisco switch which has the following configuration:

```
zone name z_NetAppvsan 400
memberpwwn 20:00:00:25:B5:C0:ff:ee
memberpwwn 50:0a:09:84:8d:7c:51:D5
zoneset name zs_NetAppvsan 400
memberz_NetApp
zoneset activate name zs_NetAppvsan 400
```

What is the problem with your zoning configuration?

- A. The member does not reference the VSAN.
- B. The zone and zoneset names do not match.
- C. The zoneset was improperly activated.
- D. The PWWN for your NetApp LIF is incorrect.

Answer: D

QUESTION 7

Referring to the volume v_iscsi_exch01 shown in the exhibit, which two LUN combinations can you create? (Choose two.)

```
c101::> vol show -vserver svml -volume v_iscsi_exch01

Vserver Name: svml
Volume Name: v_iscsi_exch01
Aggregate Name: a1_c101_sas
Volume Size: 5GB
Volume State: online
Volume Style: flex
Available Size: 4.75GB
Filesystem Size: 5GB
Used Size: 144KB
Used Percentage: 5%
Volume Nearly Full Threshold Percent: 95%
Volume Full Threshold Percent: 98%
Maximum Autosize (for flexvols only): 6GB
(DEPRECATED) Autosize Increment (for flexvols only): 256MB
Minimum Autosize: 5GB
Autosize Grow Threshold Percent: 85%
Autosize Shrink Threshold Percent: 50%
Autosize Mode: off
Autosize Enabled (for flexvols only): false
Space Guarantee Style: volume
Space Guarantee in Effect: true
Space Reserved for Snapshot Copies: 5%
Snapshot Reserve Used: 0%
Snapshot Policy: none
Node name: c101-01
Fractional Reserve: 100%
Primary Space Management Strategy: volume grow
Total Physical Used Size: 144KB
Physical Used Percentage: 0%
```

- A. Five LUNS, each LUN 3GB in size, with the LUN option space-reserve set to enabled
- B. Three LUNS, each LUN 5GB in size, with the LUN option space-reserve set to enabled
- C. Two LUNS, each LUN 5GB in size, with the LUN option space-reserve set to disabled
- D. Four LUNS, each LUN 1GB in size, with the LUN option space-reserve set to enabled

Answer: CD

QUESTION 8

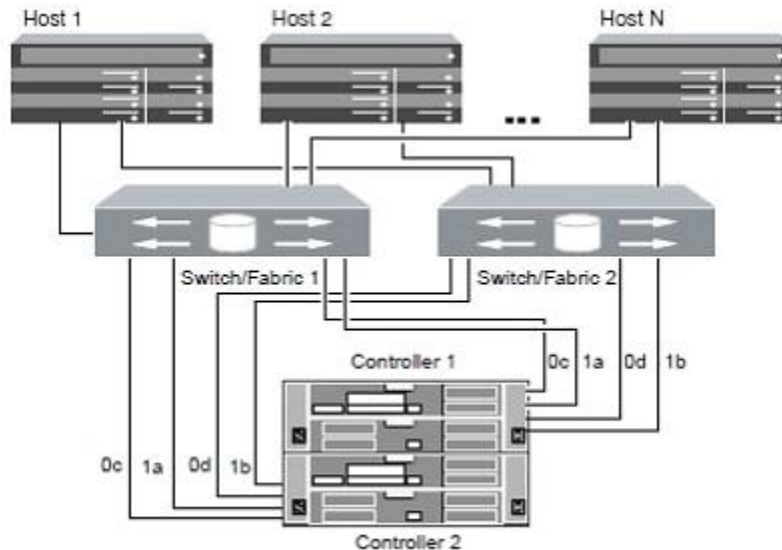
To provide host connectivity for both SAN and NAS protocols, which combination is valid?

- A. UTA2 configured as FC connected to an FCoE-enabled switch with CNAs in the host
- B. UTA2 configured as FCoE connected to a FCoE-enabled switch with FC HBAs in the host
- C. UTA2 configured as 10Gb Ethernet connected to an Ethernet switch with CNAs in the host
- D. UTA2 connected to an FCoE-enabled switch with CNAs in the host

Answer: D

QUESTION 9

Referring to the exhibit, you see an FC SAN configuration that uses multiple fabrics and the best practice Implementation. How many paths per LUN do you expect the host to see if the cable 0c connecting controller 2 to fabric 1 is pulled out for connectivity redundancy testing?



- A. 6
- B. 14
- C. 12
- D. 7

Answer: D

QUESTION 10

Which command on the storage system allows you to display statistics on the performance of system resource such as CPU, NVRAM, network interfaces, and disks?

- A. netstat
- B. netdiag
- C. pktt
- D. sysstat

Answer: D

QUESTION 11

A storage administrator wants to ensure multipathing between the initiator and the target. The current connection uses target portal group 1027. Referring to the exhibit, which IP address should be used to accomplish this task?

Vserver	Logical Interface	Status Admin/Oper	Network Address/Mask	Current Node	Current Port	Is Home	
svm1							
	svm1_1	up/up	192.168.0.165/24	cl01-01	e0c	true	
	svm1_2	up/up	192.168.0.166/24	cl01-02	e0c	true	
	svm1_3	up/up	192.168.0.167/24	cl01-02	e0c	true	
	svm1_mgmt	up/up	192.168.0.53/24	cl01-01	e0a	true	
4 entries were displayed.							
cl01::> vserver iscsi interface show -vserver svm1							
Vserver	Logical Interface	TPGT	Status Admin/Oper	IP Address	Curr Node	Curr Port	Enabled
svm1	svm1_1	1027	up/up	192.168.0.165	cl01-01	e0c	true
svm1	svm1_2	1028	up/up	192.168.0.166	cl01-02	e0c	true
2 entries were displayed.							

- A. 192.168.0.53
- B. 192.168.0.165
- C. 192.168.0.167
- D. 192.168.0.166

Answer: D

QUESTION 12

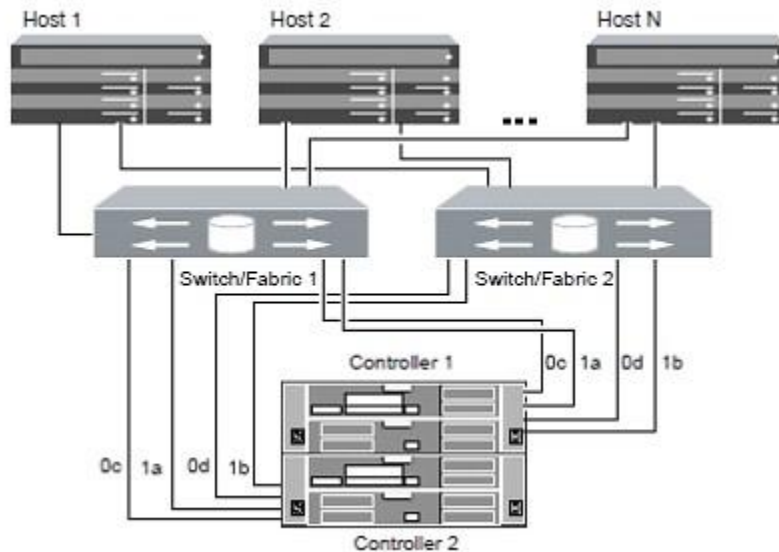
You want to configure iSCSI on a 4-node cluster that only has NFS configured. You need to guarantee that you have at least two optimized paths per LUN. In this scenario, what are the minimum number of iSCSI LIF needed?

- A. 6
- B. 4
- C. 8
- D. 2

Answer: C

QUESTION 13

Referring to the exhibit, which design solution is shown?



- A. single-fabric HA pair
- B. multifabric single-node
- C. single-fabric single-node
- D. multifabric HA pair

Answer: D

QUESTION 14

You have 4-node cluster with a FAS8200 HA pair and AFF A700 HA PAIR. You need to move a LUN from the FAS8200 to the AFF A700 for faster performance. In this scenario, which sequence of steps, accomplishes task nondisruptively?

- A. 1. Remove the FAS8200 HA pair from file reporting-nodes list.
2. Add the AFF-A700 HA pair to the reporting nodes list.
3. Run the lun move command.
- B. 1. Add the AFF A700 HA pair to the reporting-nodes list.
2. Run the lun move command.
3. Remove the FAS8200 HA pair from the reporting-nodes list.
- C. 1. Run the lun move command.
2. Add the AFF A700 H pair to the repotting-nodes list.
3. Remove the FAS8200 HA pair from the reporting-nodes.
- D. 1. Add the AFF A700 HA pair to the reporting-nodes list.
2. Remove the FAS8200 HA pair from the reporting-nodes list.
3. Run the lun move command.

Answer: B

QUESTION 15

You are planning a migration from a 7-mode system running DATA ONTAP 8.0 to a new AFF A700 ONTAP 9.1 system. This 7-mode system provides only iSCSI LUNs for a windows server 2012R2 server farm. There is no FC fabric available for this migration. In this scenario, what would you use for the migration?

- A. Foreign LUN import (FLI)
- B. Unified Host Utility Kit
- C. 7-mode Transition tool (7MTT)
- D. OnCommand System Manager

Answer: C

QUESTION 16

When using the GUID Partition Table for a Windows Server 2016 system, which LUN type would be used?

- A. windows_gpt
- B. windows_2008
- C. windows
- D. linux

Answer: A

QUESTION 17

An administrator has an ONTAP cluster configured for SAN use. There are no port sets configured on the cluster. The SAN is configured as dual-fabric, with no zones defined on the switches. Referring to the exhibit, which two statements describe the host-to-storage connectivity? (Choose two.)

```
# sanlun lun show -p
```

ONTAP Path: vs_data28_2:/vol/vol1/lun1				
LUN: 2				
LUN Size: 3g				
Mode: C				
Host Device: 3600a09803246664c422b2d51674f74/0				
Multipath Policy: round-robin 0				
Multipath Provider: Native				

host	vserver			
path	path	/dev/	hots	vserver
state	type	node	adapter	LIF
up	primary	sdfo	host 0	lif1
up	primary	sdfk	host 0	lif2
up	primary	sdga	host 1	lif3
up	primary	sdge	host 1	lif4
up	secondary	sdgm	host 1	lif5
up	secondary	sdg	host 0	lif6
up	secondary	sdfv	host 0	lif7
up	secondary	sdgq	host 1	lif8

- A. DM-MP is in use
- B. Each FAS9000 node has 4 targets ports per fabric
- C. Each FAS9000 node has 2 targets ports per fabric
- D. There are eight optimized paths from host to storage

Answer: AB

QUESTION 18

For host connections to ONTAP storage, which three components are used as queries in the Netapp Interoperability Matrix Tool (IMT)? (Choose three.)

- A. Firmware
- B. Adapter model
- C. Driver
- D. SFP+
- E. Optical cable

Answer: ABC

QUESTION 19

A customer wants to set up storage so that the LUNs have no possibility to go offline. There are multiple LUNs per volume. There should be extra available space in the volume for snapshot copies. Which two configuration settings would accomplish task? (Choose two.)

- A. Volume guarantee = volumeLUN reservation = enabledFractional reservation = 100%Snapshot autodelete = disabledAutogrow = enabled
- B. Volume guarantee = noneLUN reservation = enabledFractional reservation = 0Snapshot autodelete = enabledAutogrow = enabled
- C. Volume guarantee = volumeLUN reservation = enabledFractional reservation = 0Snapshot autodelete = disabledAutogrow = disabled
- D. Volume guarantee = volumeLUN reservation = enabledFractional reservation = 100%Snapshot autodelete = enabledAutogrow = disabled

Answer: AD

QUESTION 20

You are planning to expand an existing SAN only cluster consisting of eight AFF A700 nodes. In this scenario, that is the maximum number of additional AFF A700 nodes allowed for your cluster?

- A. 8
- B. 4
- C. 12
- D. 0

Answer: B

Explanation:

AFF700 can support a max of 12 nodes for SAN connections. As such the answer is B - 4 nodes can be added to the existing 8 node cluster!

QUESTION 21

According to NetApp best practices, which method should be used for zoning?

- A. Single initiator, multiple targets
- B. Multiple initiator, single target
- C. Single initiator, single target
- D. Multiple initiator, multiple targets

Answer: C

QUESTION 22

A company has a 4-node ONTAP cluster called "cl01". Each node uses two UTA2 ports for data traffic, so that LAN traffic and SAN traffic pass over the same physical ports. A storage virtual machine called "svm1" is created and enabled for iSCSI only. An administrator creates a LUN in svm1 and maps it to an igroup. Storage is scanned on the end host, but the LUN is not visible. What caused this problem?

- A. The SVM firewall policy blocking port 3260 on the data LIFs
- B. The igroup does not contain the appropriate initiators
- C. Switch zoning is not configured properly to allow connectivity
- D. One of the lfs is not online and communicating with the end host.

Answer: D

QUESTION 23

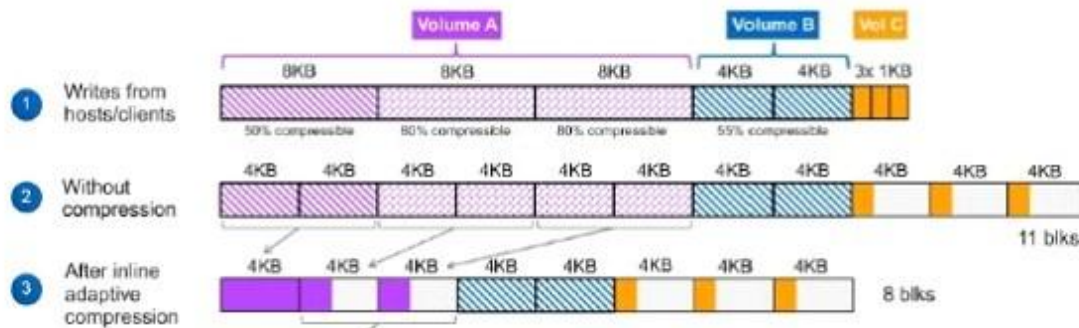
You are asked to create a volume and lun, both of which need to be thin provisioned. In this scenario, which two statements are correct? (Choose two.)

- A. Use the lun create command with the space-reserve parameter set to disabled
- B. Use the lun create command with the space-reserve parameter set to enabled
- C. Use the volume create command with the space-guarantee parameter set to none
- D. Use the volume create command with the space-guarantee parameter set to volume

Answer: AC

QUESTION 24

An Administrator has an ONTAP 9.1 cluster. The cluster contains a number of volumes with data writes as shown in the exhibit. Adaptive compression is enabled, and the initial space savings that are shown are achieved. The administrator has enabled data compaction on the volumes. Referring to the exhibit. How many ONTAP blocks would be used to hold the data after data compaction is enabled?



- A. 11
- B. 6
- C. 10
- D. 8

Answer: D

QUESTION 25

You have expanded your ONTAP cluster from two nodes to four nodes and want to allow Linux multipathing software to see the paths to all nodes in the cluster. In this scenario, which statement describes how to accomplish this task?

- A. Add the WWPN to the host igroup then rescan from the host.
- B. Rescan from the host OS and modify the reporting nodes to add the two new nodes.
- C. Modify the reporting nodes to add the two new nodes then rescan from the host OS.
- D. Rescan from the host OS then add the WWPN to the host igroup.

Answer: C

QUESTION 26

The Linux Host Utilities 7.1 configures settings for which three protocols? (Choose three.)

- A. NFS
- B. iSCSI
- C. SMB
- D. FCoE

Answer: ABD

QUESTION 27

You need to determine the maximum LUN size per host operating system. Which resource has this information?

- A. Logical Storage Management Guide
- B. SAN administration guide
- C. Software Setup guide
- D. SAN configuration guide

Answer: D

QUESTION 28

Referring to port 3 in the exhibit, which two statements are correct? (Choose two.)

```

switchMode:      Native
switchRole:      Principal
switchDomain:     1
switchId:        fffc01
switchWwn:       10:00:xx:xx:xx:xx:xx:xx
zoning:          ON (afxxoc)
switchBeacon:    OFF
FC Router:       OFF
HIF Mode:        OFF
Allow XISL Use:  OFF
LS Attributes:   [FID: 128, Base Switch: No, Default Switch: Yes, Address Mode 0]

```

Index	Port	Address	Media	Speed	State	Proto
0	0	010000	id	16G	Online	FC F-Port 21:00:xx:xx:xx:xx:xx:xx
1	1	010100	id	16G	Online	FC F-Port 21:00:xx:xx:xx:xx:xx:xx
2	2	010200	id	16G	Online	FC F-Port 1 N Port + 1 NPIV public
3	3	010300	id	16G	Online	FC F-Port 1 N Port + 1 NPIV public

<Output truncated>

- A. Port 3 shows two LIFs connected.
- B. The speed is hard coded to 16GB.
- C. Port 3 shows one LIF connected.
- D. The speed is set to auto and negotiated to 16GB.

Answer: CD

QUESTION 29

Your vSphere administrator asked you to create an additional 5GB boot LUN for their new ESX1 installation. To complete this request, you have entered the following CLI commands:

```

lun create -vserver svml -volume boot -lun exsi_1 -size 5G -ostype vmware
igroup create -vserver svml -igroup esxi_1 -protocol fcp -ostype vmware
-initiator 50:01:43:80:05:68:5f:B6

```

However, the vSphere administrator has reported that they are unable to see the newly configured LUN. What must you do to solve the problem?

- A. Reboot the ES XI server.
- B. License the duster for FC.
- C. Map your LUN to the igroup.
- D. Create a new SAN LIF.

Answer: C

QUESTION 30

You are configuring a Fibre Channel SAN in your cluster for the first time. In this scenario, which switch feature is required for ONTAP Fibre Channel SAN to operate correctly?

- A. Dynamic Path Selection (DPS)
- B. Forward Error Correction (FEC)
- C. N_Port ID Virtualization (NPIV)
- D. iSCSI Type, Length, Value (TLV)

Answer: C

QUESTION 31

Which three components must be verified in the IMT to ensure a support FC configuration? (Choose three.)

- A. The FC HBA that is installed in the host
- B. The OS patch level or service pack
- C. The volume manager that is being used on the host
- D. The size and quantity of the internal disks
- E. The amount of memory that is installed in the host

Answer: ABC

QUESTION 32

A customer has four SVMs on a 4-node cluster. Each SVM has two FC LIFs per node, for a total of eight LIFs per node. According to Netapp Best practices, what is the minimum number of ports required per node for this configuration?

- A. 16
- B. 4
- C. 8
- D. 2

Answer: D

QUESTION 33

You have a host that loses connectivity to a LUN after a volume is moved from one node to another node in the cluster. You verified that you do not have a problem with the cluster, a switch, or reporting nodes. Which two actions will help determine the problem? (Choose two.)

- A. Verify the HBA timeout settings.
- B. Verify that the SnapDrive version is supported for the host and ONTAP version.
- C. Verify that the SANtricity Storage Manager version is supported on the host.
- D. Verify that MPIO and ALUA are enabled.

Answer: AD

QUESTION 34

A 4-node cluster is upgraded from clustered Data ONTAP 8.2 to ONTAP 9.1. LUNs that were created after the upgrade are visible only on the target ports of the node that owns the LUN and its HA partner. LUNs that were on the system before the upgrade are visible on all target ports. You want all LUNs to have paths only to the owning HA pair. In this scenario, which non-disruptive action would accomplish this task?

- A. Add reporting nodes to the LUNs created on clustered Data ONTAP 8.2
- B. Add reporting nodes to the LUNs that were created after the upgrade to ONTAP 9.1
- C. Re-create the LUNs that were on the system when clustered Data ONTAP 8.2 was running
- D. Reboot the fabric switches one at a time

Answer: A

QUESTION 35

A company has Snapmirror configured between two ONTAP clusters. They want to add nodes to one of the clusters at a minimum, which LIF would be required to be defined on the new nodes?

- A. Node-management, data, and intercluster
- B. Node-management and intercluster
- C. Data, node-management, and FC
- D. Node-management

Answer: C

QUESTION 36

Which two actions are performed by the windows Unified Host Utilities 7.0 installation? (Choose two.)

- A. Create the SVMs and the LUNs in ONTAP
- B. Set the parameters on the host to enable a connection to Netapp storage over SAN protocols
- C. Create zoning on the switch between the host and the Netapp SAN cluster
- D. Set the parameters for certain host bus adapters

Answer: BD

QUESTION 37

In a new SAN installation, which three components do you verify in the IMT for a supported solution? (Choose three.)

- A. HBA driver
- B. host memory
- C. host OS patch level or Service Pack
- D. application patch level
- E. switch firmware

Answer: ACE

QUESTION 38

You want to verify that a host will be able to see the storage. A LUN is mapped to an igroup for the host, and both the host and storage are connected to FC switches. Which command will provide the path status information from the switch?

- A. configure
- B. cfgshow
- C. fcping
- D. zoneshow

Answer: B

QUESTION 39

You have an iSCSI host that is unable to connect to an SVM that is named "svm1" over a LIF that is named "lif1". The home node and port of lif1 is cl01-01 port e0e. The event log show command displays the error iSCSI:

```
network interface disabled for use; incoming connection discarded.
```

Which command would you use to solve the problem?

- A. Broadcast-domain add-ports -broadcast-domain iscsi -ports cl01-01:e0e
- B. iSCSI interface enable -vserver svm1 -lif lif1
- C. Network interface modify -vserver svm1 -lif lif1 -failover-group default
- D. Vserver iscsi create -target-alias svm1 -status-admin up -vserver svm1

Answer: B

QUESTION 40

An administrator has a volume that was created with the storage efficiency features shown in the volume show output. Inside the volume, the administrator creates LUNs lun1 and lun2, lun1 is a 20GB LUN with space reservation enabled. lun2 is a 30GB LUN with space reservation disabled. 10GB of data is then written to lun2. Referring to the exhibit, how much space is allocated for the volume in the parent aggregate?

```
c101::> vol show -vserver test -volume data vol

Vserver Name: test
Volume Name: data vol
Aggregate Name: c101_01_aggr0
List of Aggregates for FlexGroup Constituents: c101_01_aggr0
Volume Size: 100GB
Volume Data Set ID: 1103
Volume Master Data Set ID: 2160656408
Volume State: online
Volume Style: flex
Extended Volume Style: flexvol
Is Cluster Mode Volume: true
Is Constituent Volume: false
...
Available Size: 100.00GB
Filesystem Size: 100GB
Total User-Visible Size: 100GB
Used Size: 236KB
Used Percentage: 0%
Volume Nearly Full Threshold Percent: 95%
Volume Full Threshold Percent: 98%
Maximum Autosize (for flexvols only): 150GB
Minimum Autosize: 100GB
Autosize Grow Threshold Percent: 85%
Autosize Shrink Threshold Percent: 50%
Autosize Mode: grow
Total Files (for user-visible data): 311287
Files Used (for user-visible data): 97
Space Guarantee in Effect: true
Space SLO in Effect: true
Space SLO: none
Space Guarantee Style: volume
Fractional Reserve: 100%
```


- A. 30 GB
- B. 50 GB
- C. 100 GB
- D. 10 GB

Answer: C

QUESTION 41

Which resource identifies the number of UTA2 ports available on a FAS8020 controller?

- A. Hardware Universe
- B. Interoperability Matrix Tool
- C. Universal SAS and ACP Cabling Guide
- D. Config Advisor

Answer: A

QUESTION 42

You want to set up a LUN with SCSI T10 thin provisioning. Which ONTAP command would you use to accomplish this task?

- A. Lun create -vserver svm1 -path /vol/vol1/lun1 -size 10GB -ostype linu -space-reserve disabled -space-allocation disabled
- B. Lun create -vserver svm1 -path /vol/vol1/lun1 -size 10GB -ostype linu -space-reserve enabled -space-allocation disabled
- C. Lun create -vserver svm1 -path /vol/vol1/lun1 -size 10GB -ostype linu -space-reserve enabled -space-allocation enabled
- D. Lun create -vserver svm1 -path /vol/vol1/lun1 -size 10GB -ostype linu -space-reserve disabled -space-allocation enable

Answer: A

QUESTION 43

You need to perform a DR test on a FAS8200 with SAN LUNs using the onboard UTA2 with 16GB SFP+. In this scenario, what is the minimum port speed required on the DR Site's FC switches?

- A. 2Gb
- B. 16Gb
- C. 8Gb
- D. 4Gb

Answer: D

Explanation:

A 16GB SFP+ can negotiate down to 4Gbps.

QUESTION 44

You want to verify back-end SAS cabling on a FAS9000 and SAN host connectivity from windows server 2016, VMware ESX 6.0, and Linux 2.6. Which two tools would you use to accomplish this task? (Choose two.)

- A. Interoperability Matrix Tool
- B. Hardware Universe

- C. Config Advisor
- D. nSanity

Answer: CD

QUESTION 45

In a 4-node cluster, how many LIFs are required on each node to allow a host to use ALUA and have multiple optimized paths to each LUN?

- A. 1
- B. 2
- C. 4
- D. 6

Answer: B

QUESTION 46

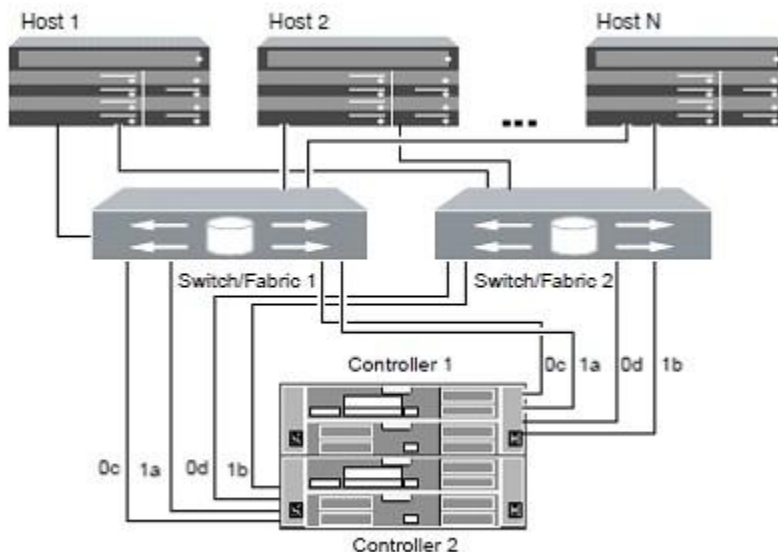
You are migrating data from a foreign array into an existing 2-node AFF300 ONTAP cluster using Foreign LUN import. All existing FC ports are currently in use for FC host connectivity on the Netapp cluster. Which two statements are correct in this scenario? (Choose two.)

- A. Add FC HBA cards to the ONTAP cluster to allow for additional initiators.
- B. You can change the personality of one of the existing FC ports on the AFF A300 from initiator to target.
- C. You can change the personality of one of the existing FC ports on the AFF A300 from target to initiator.
- D. Add FC HBA cards to the ONTAP cluster to allow for additional targets.

Answer: BD

QUESTION 47

Referring to the exhibit, you see an FC SAN configuration that uses multiple fabrics and best practice implementation. How many available paths per LUN do you expect host 1 to see if the cable connecting host 1 to Fabric 1 is pulled out for connectivity redundancy testing?



- A. 12

- B. 4
- C. 6
- D. 8

Answer: B

QUESTION 48

A customer has a 2TB volume. The volume guarantee is set to volume, the fractional reserve is set to 0, no snapshots copies exist, and a 500GB LUN shows 50% deduplication savings in the volume. The df command shows that 500GB are used. In this scenario, why is this amount of space being used?

- A. The snap reserve is set to 50%
- B. The LUN reservation is enabled
- C. The deduplication is set to inline
- D. The LUN reservation is disabled

Answer: B

QUESTION 49

You notice that reporting nodes are not mapped on a LUN in a 4-node cluster that originally ran an older version of ONTAP. In this scenario, which command would you use to add only the local HA pair to the reporting nodes for the /vol/data/lun1/LUN?

```
c101::> lun mapping show -fields reporting-nodes
Vserver path          igroup reporting-nodes
-----
svm1     /vol/data/lun1 igroup1 -

c101::> vol show
Vserver Volume Aggregate State Type Size Available Used%
-----
svm1     data      c101_01 aggr1 online  RW  10GB  8.49GB  15%

c101::> lun mapping show
Vserver path          Igroup LUN ID Protocol
-----
svm1     /vol/data/lun1      igroup1  0      fcp
```

- A. Lun mapping add-reporting-nodes -vserver svm1 -path /vol/data/lun1 -igroup igroup1 destination-aggregate data
- B. Lun mapping add-reporting-nodes -path /vol/data/lun1 -igroup igroup1 -all false
- C. Lun mapping add-reporting-nodes -vserver svm1 -path /vol/data/lun1 -igroup igroup1-local nodes true
- D. Lun mapping add-reporting-nodes -vserver svm1 -path /vol/data/lun1 -igroup igroup1 destination-volume c101_01_aggr1

Answer: C

QUESTION 50

You are adding new nodes to an ONTAP cluster. You need to add the new LIF WWPNs to which object?

- A. Reporting nodes
- B. Failover group
- C. VLAN
- D. Switch zone

Answer: D

QUESTION 51

You notice that a host is performing poorly and that the load on the storage system is higher than expected. In this scenario, which statement is correct?

- A. The host application administrator is currently logged into the host.
- B. Cluster node clocks are not synchronized.
- C. The cluster node has only one spare disk.
- D. The LUN I/O is misaligned.

Answer: D

QUESTION 52

Which two resources would you use to determine the number of UTA2 ports and the availability of FC support for an AFF A300? (Choose two.)

- A. Config Advisor
- B. Unified Host Utility Kit
- C. Interoperability Matrix Tool
- D. Hardware Universe

Answer: CD

QUESTION 53

If you believe you create FC SAN performance problem, which NatApp utility would gather both your Solaris host and storage system data for analysis?

- A. sio_ntap.exe
- B. prestart
- C. poststat
- D. perfstat

Answer: D

QUESTION 54

Where do you identify the disk shelves and disks that are supported for a specific controller model?

- A. Hardware Universe (HWU)
- B. Interoperability Matrix Tool (IMT)
- C. Disk and Aggregates Power guide
- D. Installation and Setup Instructions poster

Answer: A

QUESTION 55

For which two vendor products would the Unified Host Utilities Kit set HBA and CAN parameters?

(Choose two.)

- A. Brocade
- B. Cisco
- C. Emulex
- D. Qlogic

Answer: CD

QUESTION 56

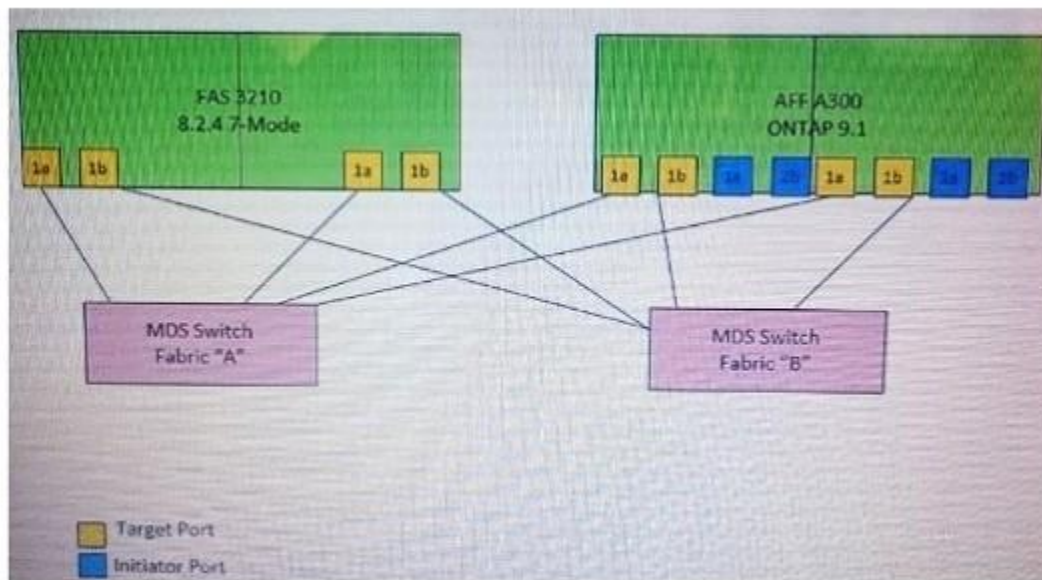
You have a 2-node FAS900 cluster with six FC LIFs per node. In this scenario, which two methods will limit the total number of paths to eight paths per LUN? (Choose two.)

- A. FC queue depth
- B. Port sets
- C. SLM
- D. FC switch zoning

Answer: BC

QUESTION 57

An administrator has an existing FAS3210 running DATA ONTAP 8.2.4 7-mode. They have recently purchased and installed a new AFF A300 ONTAP 9.1 cluster and need to non-disruptively migrate FC LUNs from the 7-mode system to the new cluster. The administrator has cabled the FC interfaces shown in the exhibit. In this scenario, which additional cabling will be needed on the AFF A300 to support foreign LUN import 7-mode?



- A. AFF A300 node 1: interface 2a to MDS switch Fabric "A" AFF A300 node 1: interface 2b to MDS switch Fabric "A" AFF A300 node 2: interface 2a to MDS switch Fabric "B" AFF A300 node 2: interface 2b to MDS switch Fabric "B"
- B. AFF A300 node 1: interface 2a to MDS switch Fabric "A" AFF A300 node 1: interface 2b to MDS switch Fabric "A" AFF A300 node 2: interface 2a to MDS switch Fabric "A" AFF A300 node 2: interface 2b to MDS switch Fabric "A"

- C. AFF A300 node 1: interface 2a to MDS switch Fabric "A" AFF A300 node 1: interface 2b to MDS switch Fabric "B" AFF A300 node 2: interface 2a to MDS switch Fabric "A" AFF A300 node 2: interface 2b to MDS switch Fabric "B"
- D. AFF A300 node 1: interface 2a to MDS switch Fabric "B" AFF A300 node 1: interface 2b to MDS switch Fabric "B" AFF A300 node 2: interface 2a to MDS switch Fabric "B" AFF A300 node 2: interface 2b to MDS switch Fabric "B"

Answer: C

QUESTION 58

Which NetApp resource would you use to validate the maximum number of FC hops that are supported by a switch vendor?

- A. Hardware Universe
- B. Switch Install Guide
- C. Installation and Setup Instructions Poster
- D. SAN Configuration Guide

Answer: D

QUESTION 59

You need to take a cluster node down for extended maintenance, but you want to the FC LIF to avoid re-zoning the switch fabric. In this scenario, which three steps are required to move the FC LIF so it is available on another node? (Choose three.)

- A. Use the network interface migrate command to migrate the new home node and the new home port
- B. Perform a takeover and giveback operation for the new destination node
- C. Use the network interface modify command to modify the new home node and the new home port
- D. Bring the LIF online
- E. Take the LIF offline

Answer: CDE

QUESTION 60

When a new LUN is allocated, which volume and LUN configuration will use the smallest amount of storage?

- A. Volume guarantee none, fractional reserve 0, space reservation disabled
- B. Volume guarantee none, fractional reserve 0, space reservation enabled
- C. Volume guarantee volume, fractional reserve 100, space reservation enabled
- D. Volume guarantee volume, fractional reserve 100, space reservation enabled

Answer: A

QUESTION 61

You recently configured your SVM to serve data with the FC protocol by issuing the following commands:

```
Vserver fcp create -vserver vs1 -status-admin up
Network interface create -vserver vs1 -lif lif1 -role-data -data-protocol fcp -home-node node_name -home-port port
```

However, your LIF still shows an operational status of down. What must you do to change the operational status to up?

- A. License and enable the FC service
- B. Add the LIF to a group
- C. Configure zoning on the switch
- D. Create a LIF on the node's HA partner

Answer: C

QUESTION 62

When implementing ONTAP SAN for VMware, in which three would VSC help? (Choose three.)

- A. When provisioning the lun
- B. When updating HBA driver
- C. When configuring host best practices
- D. When provisioning the datastore
- E. When creating FC switch zoning

Answer: ACD

Explanation:

The NetApp Virtual Storage Console cannot and does not do anything with creating FC Switch zones. It does however assist with creating LUN's, volumes (data stores) and updating the host best practices.

QUESTION 63

You are asked to configure the Service Processor on a newly installed node, and must verify the following command:

```
system-service processor network modify-node local-address-family IPv4-  
enable true-ipaddress 192.168.123.98-netmask 255.255.255.0
```

Which statement about this command is true?

- A. -nodeshould reference the actual node name.
- B. The gateway IP address is missing.
- C. The Link Local IP Address is missing.
- D. IPv6 is required for the SP.

Answer: AB

QUESTION 64

An administrator has a 4-node NetApp cluster that was originally installed with clustered Data ONTAP 8.3. The administrator is going to upgrade to ONTAP 9.1. What are two considerations for the upgrade process? (Choose two.)

- A. The administrator must do an intermediate upgrade to ONTAP 9.0, before upgrading to ONTAP.
- B. Reporting nodes will be set by default on all LUNs after the upgrade process.
- C. A rolling upgrade needs to be used for this process-because of the current ONTAP version.
- D. All LIFs must reside on their home ports prior to the upgrade.

Answer: CD

QUESTION 65

What is the correct provisioning order of a new ONTAP storage solution?

- A. LUNs, volumes, aggregates
- B. LUNs, aggregates, volumes
- C. Volumes, aggregates, LUNs
- D. Aggregates, volumes, LUNs

Answer: D

QUESTION 66

You are planning a migration from a 7-mode system running Data ONTAP 7.3 to a new AFF A700 ONTAP 9.1 system. This 7-mode system provides only FC LUNs for a Windows Server 2012 R2 server farm. The 7-Mode system cannot upgrade its volumes to 64-bit. In this scenario, what would you use for the migration?

- A. 7-Mode Transition Tool (7MTT)
- B. Foreign LUN Import (FLI)
- C. OnCommand System Manager
- D. Unified Host Utility Kit

Answer: B

QUESTION 67

You successfully migrated LUNs that are accessed over FC from a 7-Mode system to ONTAP 9.1. Your windows Server 2012 is unable to see the new LUNs. What are three reasons for this problem? (Choose three.)

- A. The IQN is not included in the igroup.
- B. You have no port sets.
- C. NPIV is not enabled on the switch.
- D. The host is directly attached to the cluster nodes.
- E. Switch zoning is misconfigured.

Answer: CDE

QUESTION 68

ONTAP DSM 4.1 is the multipathing option for which host operating system?

- A. VMware ESXi 6.0
- B. Redhat Linux 7.0
- C. Windows Server 2012 R2
- D. Oracle Solaris 11

Answer: C

QUESTION 69

Which three attributes would you specify when creating a LUN? (Choose three.)

- A. The host operating system of the system attached to LUN.
- B. The version of Data ONTAP.
- C. The size of the LUN.
- D. The path to the LUN.

Answer: ACD

QUESTION 70

Your host supports SCSI T10 thin provisioning for automatic host-side space management, and it enabled. Which ONTAP LUN parameter will keep the LUN online when it is full?

- A. Space-allocation
- B. Max-resize
- C. Non-space-reserve
- D. Space-reserve

Answer: D

QUESTION 71

A volume with a single LUN shows 30% deduplication savings. However, the output of df on the cluster does not show the 30% savings back to the volume or aggregate. What is causing this behavior?

- A. Volume space guarantee is set to none.
- B. Volume space guarantee is set to volume.
- C. LUN space reserve is disabled.
- D. LUN space reserve is enabled.

Answer: D

QUESTION 72

Within the NetApp Interoperability Matrix Tool (IMT), which three components are supported for the FC SAN storage host solution? (Choose three.)

- A. Host OS
- B. IP switch
- C. ONTAP OS
- D. Netapp Controller Model
- E. Host HBA

Answer: ACE

QUESTION 73

For testing LUN mobility, you are moving a volume that contains a LUN to a different HA pair within the same ONTAP cluster. You want to ensure that the host does not lose access to the LUN that is in the volume being moved. Which action should be performed to accomplish this task?

- A. Create a snapmirror of the volume to the destination.
- B. Modify the reporting nodes to add the node of the destination and its HA partner.
- C. Verify that the volume has snapshots copies enabled.
- D. Verify that is enough free space on the volume that is being moved.

Answer: B

QUESTION 74

A storage administrator has created LUNs for FC access. What must each LUN have configured to allow access?

- A. LUN OS type set host OS, igroup with WWPNS from host HBAs, LUN mapped to an igroup
- B. LUN OS type set host OS, igroup with all IQNs from host HBAs, igroup mapped to each FC port using port sets
- C. Igroup with WWPNS from host HBAs, ALUA set on host using host utility kit, LUN OS type set to default values
- D. LUN OS type set to default values, ALUA set on host using DSM, igroup with WWPNS from host HBAs

Answer: A

QUESTION 75

Where would you find the environment values of controllers and disk shelves (e.g. BTU and watts)?

- A. Interoperability matrix tool (IMT)
- B. Installation and setup instructions poster
- C. Config advisor
- D. Hardware universe

Answer: D

QUESTION 76

You want to ensure maximum performance of iSCSI LUNs. Which statement is correct in this scenario?

- A. Configure your network to have Layer 3 switches.
- B. Enable flow control on the switch.
- C. Set the MTU size to 9000.
- D. Use 1GbE instead of 10GbE.

Answer: C

QUESTION 77

You are connecting a controller to a 10Gbps switch that is 10 meters away. Which type of cabling is required in this scenario?

- A. short range SFP with LC-LC multimode
- B. FC SFP with LC-LC optical
- C. Twinax
- D. long range SFP with LC-LC multimode

Answer: A

QUESTION 78

What are two important considerations when issuing the lun move start command? (Choose two.)

- A. Storage efficiency deduplication metadata is moved with the LUN.
- B. The lun must have a load-sharing mirror to ensure availability during the move.
- C. The size of the destination volume must or exceed the size of the LUN.
- D. LIFs should be available on the destination HA pair.

Answer: CD

QUESTION 79

You are deploying iSCSI on a newly installed ON TAP cluster. Your network administrator has

provided you with 10 Gb network links and physically connected them to your nodes. According to NetApp best practice, which two network settings should you configure to optimize performance? (Choose two.)

- A. Enable jumbo frames.
- B. Disable jumbo frames.
- C. Disable Ethernet flow control for all ports.
- D. Use single initiator, multiple target zoning.

Answer: AC

QUESTION 80

You are creating a point-to-point connection over an ISL on a Cisco switch. Which port-channel type should you use?

- A. NP
- B. F
- C. E
- D. TF

Answer: C

QUESTION 81

You have an AFF A300 system that serves FC LUNs. The LUNs are replicated to a disaster recovery site that has a FAS8200 system that is running SATA drives. There are no FC or FCoE capable switches at the disaster recovery site. In this scenario, which three actions are required to test the disaster recovery LUNs on the Ethernet switches? (Choose three.)

- A. License FC
- B. Create LIFs
- C. Map the LUNs to initiator groups
- D. Enable iSCSI
- E. Bind the initiator groups to port sets

Answer: BCD

QUESTION 82

Referring to the diagram shown in the exhibit, what will happen when the SAS adapter in slot 2 on Node A fails?



- A. Node A will continue to access all drives through the onboard SAS port 0a.
- B. Node A will lose all access to all drives.
- C. Node A will continue to access all drives through the Infiniband connection with Node B.
- D. Node A will shut down until SAS adapter in slot 2 is replaced.

Answer: A

QUESTION 83

A customer has four SVMs on a 4-node cluster. Each SVM has two FC LIFs per node, for a total of eight LIFs per node. According to Netapp Best practices, what is the minimum number of ports required per node for this configuration?

- A. 16
- B. 4
- C. 8
- D. 2

Answer: D

QUESTION 84

You are asked to configure the Service Processor on a newly installed node, and must verify the following command:

```
system-service processor network modify -node local -address-family IPv4  
-enable true -ip-address 192.168.123.98 -netmask 255.255.255.0
```

Which statement about this command is true?

- A. -nodeshould reference the actual node name.
- B. The gateway IP address is missing.
- C. The Link Local IP Address is missing.
- D. IPv6 is required for the SP.

Answer: AB

QUESTION 85

You want to create a thick provisioned LUN within a thick-provisioned volume. Which 2 actions will

accomplish this task? (Choose two.)

- A. Use the vol create command with a guarantee parameter set to none
- B. Use the vol create command with a guarantee parameter set to volume
- C. Use the lun create command with the space-reserve parameter set to enabled
- D. Use the lun create command with the space-reserve parameter set to disabled

Answer: BC

QUESTION 86

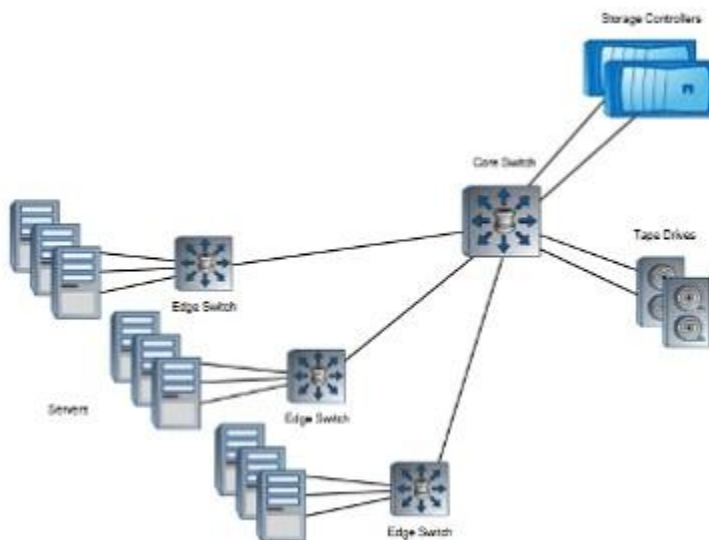
You configured a new host and followed all the recommended cabling, configuration, and the best practice guides. However, the host OS is reporting one less path to storage than expected. In this scenario, which two diagnostic commands would assist in isolating the path to investigate? (Choose two.)

- A. fcp status
- B. fcp portname show
- C. fcp ping-initiator
- D. fcp ping-igroup

Answer: CD

QUESTION 87

Which SAN topology is shown in the exhibit?



- A. Core-edge
- B. Star
- C. Partial mesh
- D. Mesh

Answer: A

QUESTION 88

Which two statements regarding data mobility, deduplication and compression are true? (Choose

two.)

- A. When a LUN is moved, storage efficiency savings are lost
- B. When a volume is moved, storage efficiency savings are maintained for deduplication and compression
- C. When a volume is moved, storage efficiency savings are maintained for compression but not for deduplication
- D. When a LUN is moved, storage efficiency savings are maintained for deduplication and compression

Answer: AB

QUESTION 89

You have an iSCSI host that is unable to connect to an SVM named svm1 over a LIF name lif1. The home node and port of lif1 is port e0e. The event log show command displays the error iSCSI: `network interface disabled for use; incoming connection discarded.` Which command would you use to resolve the problem?

- A. `vserver iscsi create-target-alias svm1-status-admin up -vserver svm1`
- B. `broadcast-domain add-ports -broadcast-domain iscsi -ports cl01-01:e0e`
- C. `network interface modify -vserver svm1 -lif lif1 -failover-group Default`
- D. `iscsi interface enable -vserver svm1 -lif lif1`

Answer: D

QUESTION 90

When viewing the output of the `sysstat -f` command, which three fields are part of the output? (Choose three.)

- A. FCP
- B. FTP
- C. CIFS
- D. NFS
- E. iSCSI

Answer: ACD

QUESTION 91

For automatic user name mapping to occur for a CIFS and UNIX user name that are the same, you must do what?

- A. Enter the CIFS user in the NIS database.
- B. Enter the user names in the `/etc/hosts.equiv` file.
- C. Use both a NIS server and a Domain Controller in the network.
- D. Nothing: mapping will occur if user name authentication is available.

Answer: D

QUESTION 92

If the security style is set to UNIX, CIFS client file access is determined by ____.

- A. NT ACLs
- B. the last client to set permissions
- C. the mapped UNIX UID/GID of the CIFS client and the UNIX file permissions

D. This is not allowed: A CIFS client cannot access files in a path set to a security style of UNIX

Answer: C

QUESTION 93

NTFS allows file access based on ____.

- A. NT ACLs and SID
- B. NT ACLs and UNIX permissions
- C. SID and password
- D. UNIX permissions

Answer: A

QUESTION 94

UNIX allows file access based on ____.

- A. GID or UID and ACLs
- B. GID or UID and UNIX permissions
- C. NT ACLs and SID
- D. NT ACLs and UNIX permissions

Answer: B

QUESTION 95

Executing this command will have what effect?

```
options wafl.default_security_style ntfs
```

- A. It will set the security style of all files to be ntfs.
- B. It will change the security style of all qtrees to be ntfs.
- C. It will change the security style of all existing volumes to be ntfs.
- D. It will set the security style of all newly created volumes to ntfs.

Answer: D

QUESTION 96

Which two statements apply to an entry in the /etc/exports file regarding exporting directories/qtrees and volumes? (Choose two.)

- A. Each volume must be exported separately.
- B. Exports are accessible only to hosts with names.
- C. User names used in an export must be resolvable.
- D. Exports can access multiple paths on the same volume.

Answer: AD

QUESTION 97

To automatically export volumes and directories on storage system reboot, include them in the /etc/exports file.

- A. True
- B. False

Answer: A

QUESTION 98

Which exportfs command will temporarily export the resource while ignoring the options specified in the /etc/exports file?

- A. exportfs -a
- B. exportfs -i
- C. exportfs -u
- D. exportfs -v

Answer: B

QUESTION 99

Which two are Data ONTAP commands for displaying performance information? (Choose two.)

- A. nfsstat
- B. perfstat
- C. sio_ontap_soll
- D. sysstat

Answer: AD

QUESTION 100

Which statement best describes the output of this command?

```
sysstat -s 5
```

- A. Display the default output every five seconds and terminate after five counts.
- B. Display extended output every five seconds and print a summary after five counts.
- C. Display extended output every five seconds and print a summary upon termination.
- D. Display the default output every five seconds and print a summary upon termination.

Answer: D

QUESTION 101

To collect per client NFS statistics on a storage system, the option nfs.per_client_stats.enable must be set on.

- A. True
- B. False

Answer: A

QUESTION 102

Which two are Data ONTAP commands for creating LUNs on a storage system? (Choose two.)

- A. lun create
- B. lun config
- C. lun make
- D. lun setup

Answer: AD

QUESTION 103

In a Fibre Channel configuration, the host's HBA is referred to as the _____, and the storage system's HBA is referred to as the _____.

- A. initiator, target
- B. primary, secondary
- C. secondary, primary
- D. target, initiator

Answer: A

QUESTION 104

Before running lun setup on the storage system, you must first create the igroup to which the initiator will be attached.

- A. True
- B. False

Answer: B

QUESTION 105

These are three methods of creating a LUN:

- * lun create
- * lun map
- * lun setup

- A. True
- B. False

Answer: B

QUESTION 106

Which set of commands should be used for troubleshooting Ethernet connectivity problems from the storage system console?

- A. ifstat, netdiag
- B. perfstat, tracer
- C. sysconfig -cr, sysstat
- D. dish shm_stats, sysstat

Answer: A

QUESTION 107

Which command displays the statistics for Ethernet network interfaces?

- A. ifconfig
- B. ifstat
- C. sysconfig
- D. sysstat

Answer: B

QUESTION 108

Which command is used to set the configuration of an Ethernet network interface?

- A. ifconfig
- B. ifstat
- C. netstat -i
- D. sysconfig -v

Answer: A

QUESTION 109

What are three true statements about physical reallocation of data added in ONTAP 7.3? (Choose three.)

- A. Use reallocate -p pathname to run the physical reallocate.
- B. Use aggr reallocate -p pathname to run the physical reallocate.
- C. Reinitialize any SnapMirror relationship for the new physical geometry.
- D. Volume Snapshots do not need to be deleted for the reallocate to run effectively.
- E. Dont run it on files, volumes, and LUNs that are in an aggregate created by a version of ONTAP earlier than 7.2.

Answer: ADE

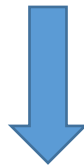
QUESTION 110

Physical Reallocation of a SnapMirror source volume increases the amount of data to transfer for the next SnapMirror update.

- A. True
- B. False

Answer:

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