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NS0-509

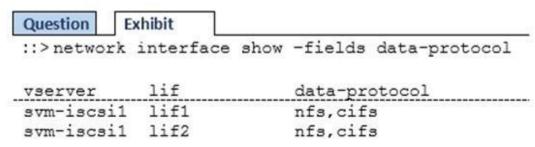
NetApp Certified Implementation Engineer - SAN, ONTAP





Exam A

QUESTION 1



You are asked to serve iSCSI LUNs in an existing SVM on your AFF A220 using ONTAP 9.5. You verified that the iSCSI license is configured on your cluster and that the iSCSI protocol is enabled.

Referring to the exhibit, what is needed to allow hosts to log into the iSCSI target?

- A. Create new LIFs with the iSCSI data protocol.
- B. Create new igroups with the host IQNs.
- C. Add iSCSI to the data protocol of the existing LIFs.
- D. Map LUNs to the igroups.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 2 You are testing iSCSI LUN failover across a 4-node FAS9000 fabric-attached MetroCluster configuration.



In this scenario, which front end configuration is required for non-disruptive host LUN failover between sites?

- A. an intercluster LIF
- B. a stretched Layer 2 network
- C. Ipv6
- D. a stretched VSAN

Correct Answer: A Section: (none) Explanation

Explanation/Reference:



Question Exhibit

cl1::> ucadmin show

		Current	Current	Pending	Pending	Admin
Node	Adapter	Mode	Туре	Mode	Type	Status
01a	0e	cna	target	-	-	online
01a	Of	cna	target	<u>=</u> 3	-	online
01a	0g	cna	target	77.00	fc	online
01a	0h	cna	target	-	fc	online
01b	0e	cna	target	73.0	-	online
01b	Of	cna	target		-	online
01b	0g	fc	target	220	<u> </u>	online
01b	0h	fc	target	T0.00	10 111 1	online

Referring to the exhibit, which two pairs of ports are currently configurable as FC SAN LIFs? (Choose two.)

A. 01b, 0h

B. 01a, 0g

C. 01a, 0h

D. 01b, 0g

Correct Answer: D Section: (none) Explanation

Explanation/Reference:



QUESTION 4

You have a 4-node cluster with an AFF A300 HA pair and a FAS8200 HA pair. You plan on using the default storage efficiency settings. With inline data compaction, you estimate that you can save 6% of storage space. AFF A300 volumes that use under 5000 IOPS are moved to a FAS8200 using the volume move command.

In this scenario, what happens to the data after the volume is moved? (Choose two.)

A. The new written data is not compacted.

B. The existing data is compacted.

C. The new written data is compacted.

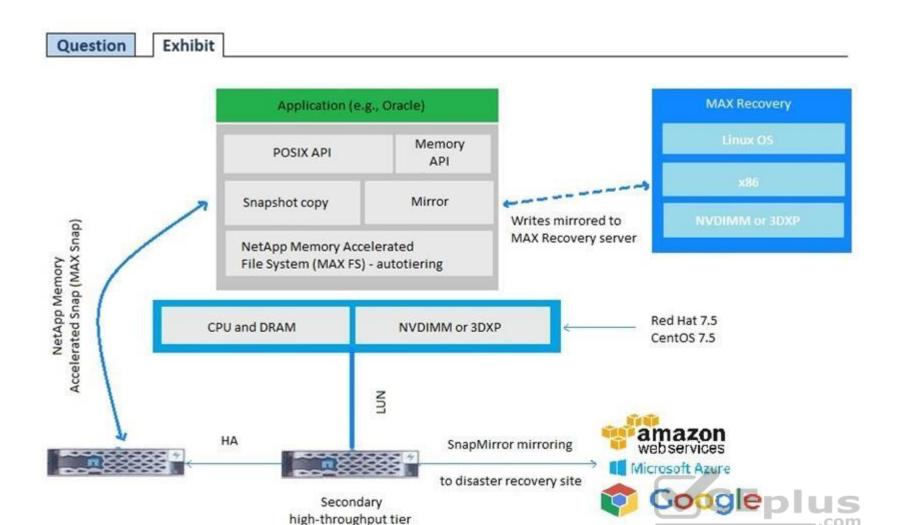
D. The existing data is not compacted.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://www.netapp.com/us/media/tr-4476.pdf





You have a requirement to serve LUNs with under 200 microsecond latency using local server lass memory. You also are required to use a shared SAN.

Using MAX Data as shown in the exhibit, which two LUN access protocols are supported with this solution? (Choose two.)

- A. iSCSI
- B. FCoE
- C. FC
- D. NVMe

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2495115 (11)

QUESTION 6

A company has 20 ESX hosts. Ten of the hosts are connected using FC, and the rest are connected over iSCSI. The FC host HBA queue depth is set to 32, and the iSCSI LUN queue depth is set to 64. The FC hosts are now experiencing random connectivity issues.

In this scenario, what would be the reason for the disconnects?

- A. The FC host has a lower queue depth.
- B. According to the IMT, unsupported HBA firmware is in use.
- C. All of the hosts are part of the same cluster.



D. The queue depth is not consistent across the cluster.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sanconf%2FGUID-A055B184-0876-4376-9C75-35FE8C9BE832.html

QUESTION 7

You want to ensure maximum performance of iSCSI LUNs on an AFF A220.

In this scenario, which two actions will accomplish this task? (Choose two.)

- A. Disable flow control.
- B. Configure virtual LAN (VLAN).
- C. Enable flow control.
- D. Enable jumbo frames.

Correct Answer: CD Section: (none) Explanation

Explanation/Reference:

QUESTION 8 You are provisioning storage to an ESX host that uses iSCSI.

According to NetApp best practice, which three actions accomplish this task? (Choose three.)

- A. Enable the iSCSI service.
- B. Bind the iSCSI ports to the software iSCSI adapter.
- C. Install Virtual Storage Console (VSC) for VMware.
- D. Enable BGP on the switch.
- E. Configure MTU 1500 on the switch.

Correct Answer: BCE Section: (none) Explanation

Explanation/Reference:





Question

Exhibit

scaling::> run -node scaling-01 -command fcp topology show

Switches connected on adapter Oc:

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 Section: (none) Explanation

Explanation/Reference:



Question Exhibit

FC/FCoE and NVMe Adapters

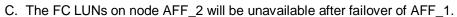
Edit Status	Refresh				26	
WWWNN	Node Name	Slot	Data Protocols	WWPN	Status	Speed
50:0a:09:80:80:83:61:11	AFF_1	0e	fcp	50:0a:09:84:80:83:61:11	link not connected	auto
50:0a:09:80:80:83:61:11	AFF_1	Of	fcp	50:0a:09:83:80:83:61:11	link not connected	auto
50:0a:09:80:80:83:61:11	AFF_1	Og	fcp	50:0a:09:86:80:83:61:11	link not connected	auto
50:0a:09:80:80:83:61:11	AFF_1	Oh	fcp	50:0a:09:85:80:83:61:11	link not connected	auto
50:0a:09:80:80:83:61:11	AFF_1	1a	fcp.fc_nvme	50:0a:09:81:80:83:61:11	online	auto
50:0a:09:80:80:83:61:11	AFF_1	1b	fcp.fc_nvme	50:0a:09:82:80:83:61:11	online	auto
50:0a:09:80:80:d3:61:00	AFF_2	0e	fcp	50:0a:09:82:80:d3:61:00	online	auto
50:0a:09:80:80:d3:61:00	AFF_2	Of	fcp	50:0a:09:81:80:d3:61:00	link not connected	auto
50:0a:09:80:80:d3:61:00	AFF_2	Og	fcp	50:0a:09:84:80:d3:61:00	online	auto
50:0a:09:80:80:d3:61:00	AFF_2	Oh	fcp	50:0a:09:83:80:d3:61:00	link not connected	auto

A customer is using both FC and NVMe in a cluster. The customer needs to do some work on AFF_1.

Referring to the exhibit, what will happen?

A. The NVMe namespaces on AFF_2 will be available after takeover of AFF_1.

B. The FC LUNs that use cluster interconnect to access the LUNs on AFF_1 will be unavailable after failover.



D. The NVMe namespaces on AFF_1 will be unavailable after takeover by AFF_2.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 11

Question Exhibit

cl1::> network fcp adapter show

Node	Adapter	Connection Established	Port Address	Admin Status	Operational Status
node1	0e	false	0	up	link not connected
node1	Of	false	0	up	link not connected
node1	0g	false	0	up	link not connected
node1	0h	false	0	up	link not connected
node2	0e	false	0	up	link not connected
node2	Of	false	0	up	link not connected
node2	0g	false	0	up	link not connected
node2	0h	false	0	up	link not connected



You have an existing 2-node AFF A300 cluster with premium bundle licensing applied. You need to have consistently low front end latency, and have determined that NVMe satisfies this requirement. Referring

to the exhibit, which two actions would accomplish this task? (Choose two.)

- A. Add a UTA2 adapter to each of the two AFF A300 nodes.
- B. Add a 32 GB FC HBA to each of the two AFF A300 nodes.
- C. Apply the license for FCP.
- D. Apply the license for NVMe.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 12

You have a thin-provisioned LUN that was created by using the lun create -vserver vs1 - path /vol/vol1/lun1 -size 500G -ostype windows 2008 -space-reserve disabled -space-allocation disabled command. You verify that your Windows 2016 host reports 200 GB free on lun1. However, lun1 shows 0 bytes free on the storage cluster.

What should you do to solve this problem?

- A. Change the LUN -space-allocation parameter to enabled.
- B. Change the LUN -ostype parameter to windows_gpt.
- C. Change the LUN -space-reserve parameter to enabled.
- D. Rescan the LUN disk in your Windows host so that it will notify NetApp about the free space.

Correct Answer: D Section: (none) Explanation



Explanation/Reference:

QUESTION 13

Question	Exhibit					
cluster01::>	system hard	ware unif	fied-connect	t show -n	ode clust	cer01-01
		Current	Current	Pending	Pending	Admin
Node	Adapter	Mode	Type	Mode	Type	Status
cluster01-01	0c	can	target	-	-	online
cluster01-01	0d	can	target	_	-	online
cluster01-01	1a	fc	target	-	-	offline
cluster01-01	1b	fc	target	1.	-	offline
cluster01-01	1c	fc	initiator	-	-	online
cluster01-01	1d	fc	initiator	_	_	online
6 entries were	e displayed.					

Referring to the exhibit, what happens when you change the type for port 1a from target to initiator?

- A. The port type for 1a changes to initiator, and you must reboot the controller for the changes to take effect.
- B. You receive an error message that you must take ports 1a and 1b offline before you can change the type.



- C. B. You receive an error message that you must take the port 1a offline before you can change the type.
- D. The port type for 1a and 1b changes to initiator, and you must reboot the controller for the changes to take effect.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 14

Which two features does Assymmetric Namespase Access (ANA) support? (Choose two.)

- A. multipathing
- B. LUN masking
- C. LUN hosting
- D. path management

Correct Answer: AD Section: (none) Explanation

Explanation/Reference:

Reference: https://www.netapp.com/us/media/tr-4684.pdf (16)

QUESTION 15

A customer that is using an AFF A220 has a problem with a host for a new FC LUN. Other LUNs on the same SVM are working properly. This LUN is not visible on the host.

Which configuration does the customer need to verify in their solution?

- A. LUN mapping with igroup
- B. host HBA speed settings
- C. FC target port setting on NetApp node
- D. FC switch zoning

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 16

A customer has an existing 8-node cluster that consists of six FAS2650 nodes and two FAS2554 nodes. The customer wants to expand the cluster by adding two AFF A220 nodes.

Which resource would be used to determine whether this configuration is supported?

- A. Interoperability Matrix Tool (IMT)
- B. Config Advisor
- C. OneCollect
- D. Hardware Universe (HWU)

Correct Answer: B Section: (none) Explanation

Explanation/Reference:





QUESTION 17

You deployed a new SVM for FC access, and you used the vserver fcr, create -vserver svml - status-admin up command to enable FC service on the SVM. You then created the LIFs for the FC protocol. When you review the status of the LIFs, they show that the admin status is up, but the operational status is down. You have already verified that the ports are physically connected.

In this scenario, what is the next step to bring the LIFs up?

- A. Use the network interface modify command to change the operational status of the LIFs.
- B. Create at least one zone that contains your SVM LIF WWPNs and an initiator.
- C. Verify that an FC license is applied on your system.
- D. Disable the SAN switch port where your NetApp storage is connected.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 18

opported	Adapter Cards - A	W. W.00 3'3 OM	Mr.										Adapter Card Help Guide
Platform	Configuration:	Single Chassis	HA Pair						V				
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 Assegmen
1	NVRAM	IO Module	X93140A	-	View	111-03190	NVRAM10 32GB	Not Supported	View	5	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. 3C. 5

D. 7

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 19

Question Exhib	it	
Storage Virtual Machine (SVM) Setup	
Enter SVM bas	sic details	
SVM Details		
? Specify a unique na	me and the data protocols for the SVM	
SVM Name:		
? IPspace:	Default V	CEplus
? Data Protocols:	CIFS NFS ISCSI FC/FCoE	
? Default language:	C.UTF-8 [c.utf_8]	
	The language of the SVM specifies the default language encoding setting for the SVM and it's volumes. Using a setting that incorporates UTF-8 character encoding is recommanded.	
? Security Style:	Select V	
Root Aggragate:	aff_01_aggr1 V	
DNS Configuration		
Specify the DNS domain and	name servers. DNS details are required to configure the CIFS protocol.	_
? Search Domains:	rtp.openenlab.netapp.com	
? Name Servers:	10.193.0.250.10.192.0.250.10.193.0.251	

Referring to the exhibit, which two elements are required for NVMe host access with ONTAP 9.5 and using supported AFF nodes? (Choose two.)

- A. You need 16 Gb FC HBAs installed in the AFF nodes.
- B. You must have the license installed for NVMe support in the cluster.
- C. You must have the license installed for FC support in the cluster.



D. You need 32 Gb FC HBAs installed in the AFF nodes.

Correct Answer: CD Section: (none) Explanation

Explanation/Reference:

QUESTION 20 A customer is required to encrypt iSCSI traffic across their public network.

In this scenario, which method will accomplish this task?

A. dot1q B. IPsec

C. NVMe

D. CHAP

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference: https://www.computerweekly.com/feature/iSCSI-security-Networking-and-security-options-available

OUESTION 21

You use iSCSI to present a LUN to a newly installed Windows 2016 Server. You have created the volume and LUN on the NetApp cluster. When you perform a hardware rescan on the Windows host, you cannot see the newly presented storage.

What are three reasons for this problem? (Choose three.)

- A. The protocol has not been enabled on the NetApp cluster.
- B. You need to add the IQN of the Windows host to the newly created LUN.
- C. The IQN of the Windows host is not included in the igroup for the new LUN.
- D. The wrong igroup has been associated with the new LUN.
- E. The volume has not been enabled for iSCSI access.

Correct Answer: ABD Section: (none)
Explanation

Explanation/Reference:

QUESTION 22

As a system administrator, you perform a routine check of available storage space on your FAS2750. You notice that the vol_1 volume is approaching 100% capacity. The volume is configured with the space guarantee set to volume and the LUN reservation is disabled. You want to free up space in the volume without increasing its size.

Which action would accomplish this task?

- A. Increase the size of the LUN.
- B. Increase the Snapshot Reserve.
- C. Increase the aggregate size.
- D. Use deduplication.

Correct Answer: C Section: (none) Explanation





Explanation/Reference:

QUESTION 23 An administrator reviews the Upgrade Advisor before performing an upgrade of their ONTAP cluster.

What information is detailed in the report? (Choose two.)

- A. pre-upgrade checks
- B. performance metrics
- C. risk exposures
- D. cluster interconnect checks

Correct Answer: AD Section: (none) Explanation

Explanation/Reference:

QUESTION 24

You want to create an additional SVM from the System Manager GUI to serve data only using block-based protocols. You know the SVM name, the aggregate containing the root volume, and the required protocols.

What other information is required to successfully create this SVM?

- A. name servers
- B. SVM Management LIF network details
- C. search domains
- D. root volume security style

Correct Answer: D Section: (none) Explanation



Explanation/Reference:

QUESTION 25

An administrator is configuring their Ethernet switches to support an AFF A300 cluster that will be providing iSCSI LUNs to servers. The switches are also used for other traffic from various hosts.

In this scenario, which statement about the switch configuration is correct?

- A. Use a larger MTU size at the SAN connection rather than the host connections to allow for greater SAN bandwidth.
- B. Use network ports as access ports only.
- C. Use multiple VLANs to segregate iSCSI traffic from other traffic types
- D. Use a single VLAN to consolidate all data traffic on the switches.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 26

You are implementing a new AFF A800 HA pair and are required to migrate NetApp E-Series E2624 data to the AFF A800 controllers. You do not have a host server that is available for the migration.

In this scenario, which NetApp migration method is supported?

A. OnCommand Unified Manager (OCUM)



B.	NetApp Data Availability Services (NDAS)
C.	SnapMirror Synchronous (SM-S)
D.	Foreign LUN Import (FLI)

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 27 You have three Windows servers and one Linux server, each with dual-ported HBAs that are connected into a dual fabric.

In this scenario, what is the minimum number of zones that you need to create within each fabric switch?

A. 8 B. 1

C. 4

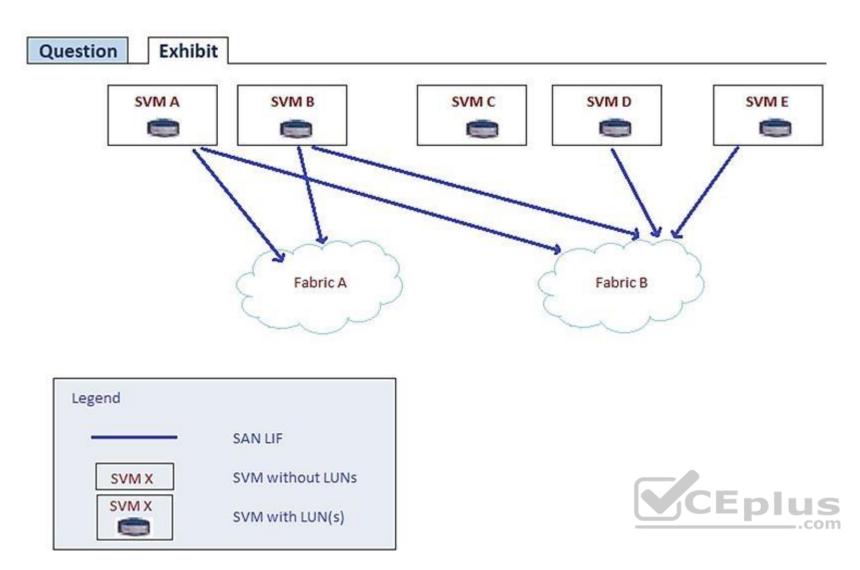
D. 2

Correct Answer: A Section: (none) Explanation

Explanation/Reference:







An administrator has an ONTAP cluster with SVMs and LUNs as shown in the exhibit. Hosts attempting to connect to LUNs mapped from SVM "C" are unable to see their LUNs. The hosts are not configured to connect to any other SVM.

Which action should be performed to restore multi-path connectivity to the LUNs in this scenario?

- A. Create LIFs on SVM "C" for host connectivity.
- B. Move the LUN to a different volume within SVM "C".
- C. Move the LUN to SVM "E" to restore connectivity.
- D. Move the LUN to SVM "A" to restore connectivity.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:



Question

Exhibit

ONTAP Path: AFF_SAN_DEFAULT_SVM:/vol/OraDev_Vol/OraDev

LUN: 0 LUN Size: 65g Product: cDOT

Host Device: 3600a09803830374a645d4933616f5275

Multipath Policy: service-time 0

Multipath Provider: Native

host path state	vserver path type	/dev/ node	host adapter	vserver LIF
un	primary	sdf	host2	aff_node-01_0e_A
up	primary	sdb	host1	aff_node-01_0g_A
up		sdd	host1	aff node-02 0g A
up	secondary secondary	sdh	host2	aff_node-02_0e_A

Referring to the exhibit, which two LIFs would be optimized paths to LUN /vol/OraDev_Vol/OraDev? (Choose two.)

A. aff node-01 0g A

B. aff node-02 0e A

C.aff_node-02_0g_A

D. aff node-01 0e A

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sanag%2FGUID-435489AE-7FB4-4178-BDEB-C6FC528860BD.html

QUESTION 30 Automatic host-side space management with SCSI T10 thin-provisioned LUNs is achieved by which feature of ONTAP?

A. fractional reserve

B. space allocation

C. space reservation

D. volume auto-grow

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2492716 (13)



QUESTION 31 You are planning to expand a SAN-only ONTAP 9.5 cluster that consists of eight AFF A700 nodes.

In this scenario, what is the maximum number of additional AFF A700 nodes that would be added?

A. 2

B. 4 C. 8

D. 0

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference: http://web.stanford.edu/group/storage/dot9/ONTAP 9 Release Notes.pdf

QUESTION 32

You have a 4 node cluster with an AFF A300 HA pair and a FAS8200 HA pair. You plan on using the default storage efficiency settings. With inline data compaction, you estimate that you can save 6% of storage space. AFF A300 LUNs that use under 5000 IOPS are moved to a FAS8200 using the lun move command. In this scenario, what happens to the data after the LUN is moved? (Choose two.)

A. The new written data is not compacted.

B. The new written data is compacted.

C. The existing data is compacted.

D. The existing data is not compacted.

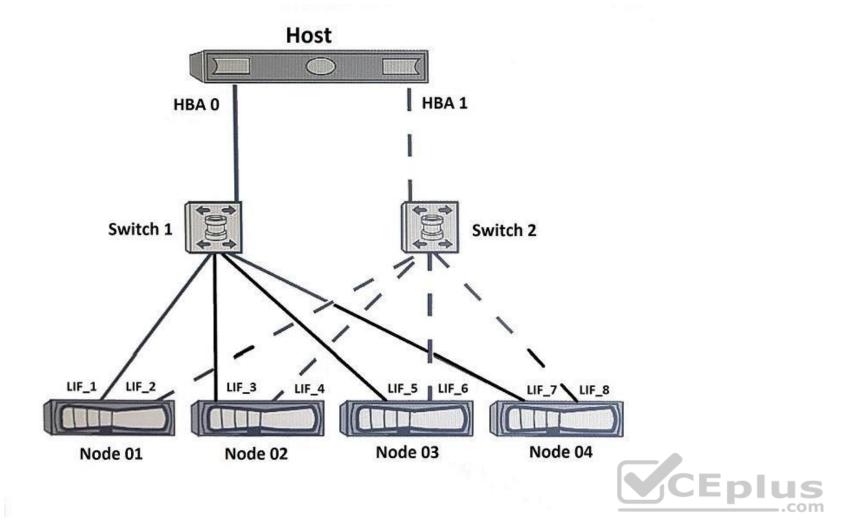
Correct Answer: BD Section: (none) Explanation



Explanation/Reference:

Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-vsmg%2FGUID-9C88C1A6-990A-4826-83F8-0C8EAD6C3613.html





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 Section: (none) Explanation

Explanation/Reference:

QUESTION 34

You are planning to implement a 32 Gb FC SAN on a 2-node AFF A700 ONTAP 9.5 cluster. You need to create 112 FC LIFs across the HA pair with a limit of 20 FC LIFs per physical HBA port.

In this scenario, how many 2-port 32 Gb HBA cards do you need per storage controller?

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

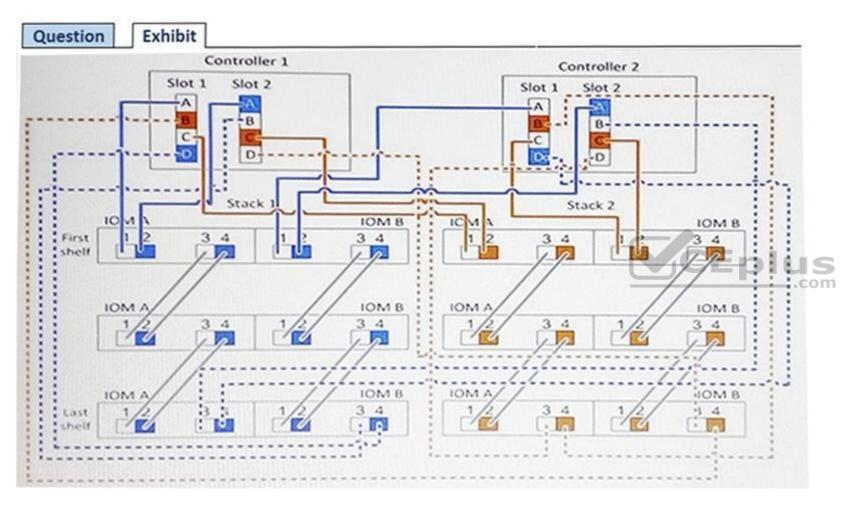


D. 3 Corr ect Ans wer:

Section: (none) Explanation

Explanation/Reference:

QUESTION 35



Referring to the exhibit, you have SAN LUNs on an AFF A700s and are asked to test an SSD shelf stack failure.

What is the maximum allowed number of failed paths per controller to shelf stack before a storage failover occurs?

- A. 1 B. 3
- C. 2
- D. 4

Correct Answer: C Section: (none) Explanation

Explanation/Reference:



QUESTION 36

You have an SVM that serves LUNs to your hosts in an FC SAN environment. This SVM runs on a 4-node cluster and has two data LIFs on each node, according to best practices. You just created a LUN and mapped it to your initiators group. The LUN is owned by node01.

In this scenario, what would be an appropriate test for LUN mobility?

- A. Move the LUN to node02.
- B. Mirror the LUN to another node in your cluster.
- C. Physically disconnect the SAN ports, and verify if the SAN data LIFs automatically move to other hosts.
- D. Copy the LUN to another node and create a new LUN map.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 37

While expanding a 200 GB LUN in an ONTAP 9.4 system, the following error is observed: cluster1::*> lun resize -path /vol/lun_vol/lun -size +3T

Error: command failed: New size exceeds this LUN's initial geometry

What is the cause of this error?

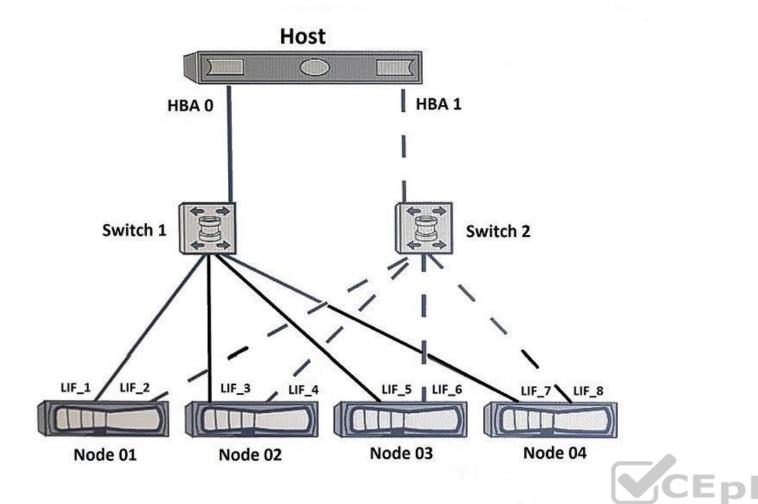
- A. The volume auto-grow is disabled.
- B. The LUN reached maximum capacity.
- C. The LUN can be expanded up to 10 times its original size.
- D. Space reservation is enabled.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:







You have a LUN owned by Node 01 and mapped using the default Selective LUN Map (SLM) configuration. You want to enable your host to access this LUN and facilitate future maintenance.

Which best-practice zone configuration accomplishes this task?

```
A. Zone 1: HBA 0, LIF_1, LIF_3, LIF_5 and LIF_7
Zone 2: HBA 1, LIF_2, LIF_4, LIF_6 and LIF_8
B. Zone 1: HBA 0, HBA 1, LIF_1, LIF_2, LIF_3, LIF_4, LIF_5, LIF_6, LIF_7, LIF_8
C. Zone 1: HBA 0, LIF_1, LIF_3
Zone 2: HBA 1, LIF_2, LIF_4
D. Zone 1: HBA 0, HBA 1, LIF_1, LIF_2, LIF_3, LIF_4
```

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 39 Which path selection policy is used by Windows Servers using NetApp LUNs that are greater than 2 TB?

- A. Least Queue Depth
- B. Round Robin
- C. Round Robin with Subset Policy
- D. Least Weighted Paths



Correct Answer: C Section: (none) **Explanation**

Explanation/Reference:

Reference: https://library.netapp.com/ecmdocs/ECMP1307349/html/GUID-29CBF302-D78C-4A38-900D-9F1E8DDB0D6A.html

QUESTION 40 Which two are supported in ONTAP 9.5?

(Choose two.)

A. an NVMe LIF and an FC LIF in the same SVM

B. an NVMe LIF associated with an FC Direct Connect port

C. a NVMe LIF and an FC LIF associated with the same port

D. multiple NVMe LIFs in the same SVM

Correct Answer: CD Section: (none) Explanation

Explanation/Reference:

QUESTION 41

An administrator who is using the Virtual Storage Console (VSC) creates a new FC datastore on an existing volume. While the datastore was provisioned, two hosts were in maintenance mode. When the maintenance was completed, the two hosts do not have access to the new datastore, but they have access to other datastores on the same volume.

In this scenario, what caused this result?

A. The VSC cannot create datastores while hosts are in maintenance mode.

B. During host maintenance, the FC HBAs were replaced with different FC HBAs.

CEplus C. The VSC created a new igroup that contains only the hosts that were online during the datastore creation

D. After creation using the VSC, the administrator needs to create a LUN mapping.

Correct Answer: C Section: (none) **Explanation**

Explanation/Reference:

Reference: https://library.netapp.com/ecmdocs/ECMP1392339/html/GUID-BD43C5D6-0952-4B62-8EEC-CF6642FEC9AC.html

An administrator is configuring a SAN-only cluster. The data room that houses four AFF A220 controllers is small and not able to house the DS224C shelves. The administrator proposes to rack the shelves in a separate room that is 40 meters away from the controllers.

In this situation, how would you properly cable the controllers to the shelves?

A. Use multimode passive optical cables.

B. Use multimode active copper cables.

C. Use multimode active optical cables.

D. Use multimode passive copper cables.

Correct Answer: C Section: (none) **Explanation**

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2485106 (45)

CEplus

QUESTION 43

Which three components are required for NetApp iSCSI LUN access on Linux servers? (Choose three.)

A. device-mapper-multipath

B. NetApp SnapDrive

C. scsi-target-utils

D. iscsi-initiator-utils

E. NetApp Host Utilities

Correct Answer: ACE Section: (none) Explanation

Explanation/Reference:

QUESTION 44 An administrator has a new AFF A220 system with two DS224C disk shelves and wants to validate if the shelf cabling is correct.

Which resource would be used to accomplish this task?

A. Config Advisor

B. OnCommand Unified Manager (OCUM)

C. OneCollect

D. Interoperability Matrix Tool (IMT)

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2842667

QUESTION 45

You currently have a FAS8200 with ONTAP 9.5. You want to expand the front end FC I/O capabilities. However, you are unsure which target adapters are supported.

What would you use to confirm which adapters are supported with your current configuration?

A. Hardware Universe (HWU)

B. Upgrade Advisor

C. OneCollect

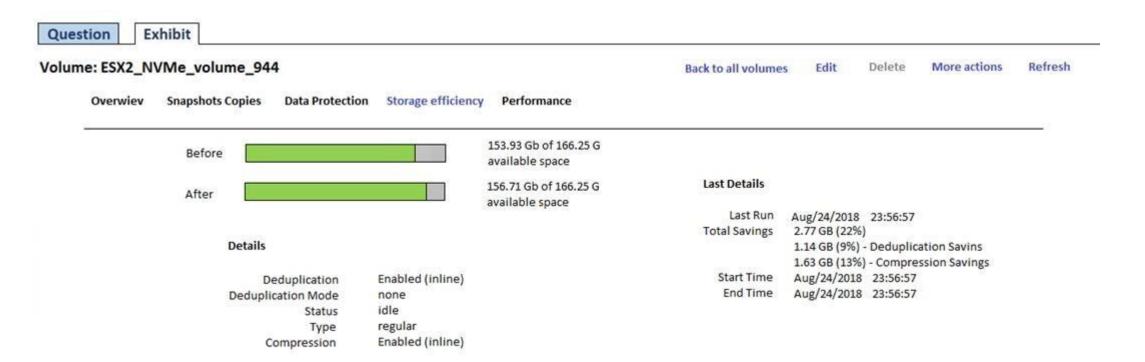
D. Interoperability Matrix Tool (IMT)

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm download file/ECMLP2495115





Which two storage efficiencies have been enabled on the NVMe namespace that is shown in the exhibit? (Choose two.)

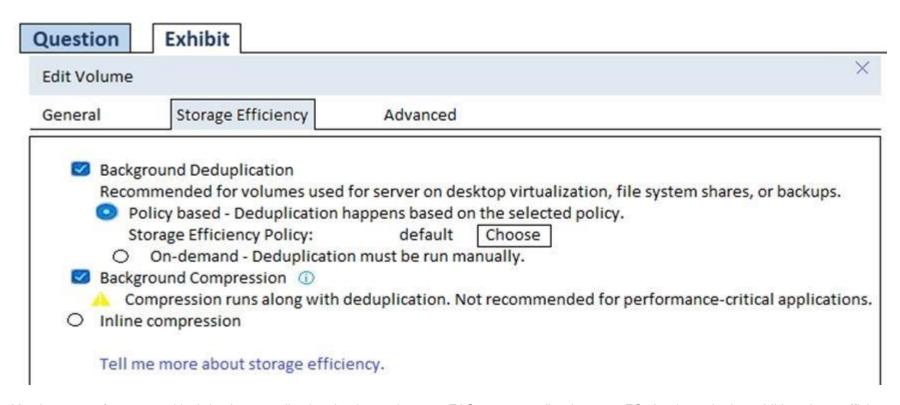
- A. deduplication
- B. compaction
- C. compression
- D. thin provisioning

Correct Answer: B Section: (none) Explanation

Explanation/Reference:







You have a performance critical database application that is running on a FAS9000 controller that uses FC. As shown in the exhibit, volume efficiency is enabled. If you follow the performance recommendation, what are two results to the data in the volume? (Choose two.)

- A. The new written data is compressed.
- B. The new written data is uncompressed.
- C. The existing data is uncompressed.
- D. The existing data is compressed.

Correct Answer: AC Section: (none) Explanation

Explanation/Reference:

QUESTION 48

You are configuring both NVMe and FC on the same AFF A800 2-node ONTAP 9.5 cluster. You are configuring both protocols on the same Cisco FC network switches.

In this scenario, which configuration on the cluster is supported?

- A. a volume with both LUNs and namespaces
- B. an SVM with both nyme and fcp allowed protocols
- C. an AFF A800 node HBA with both NVMe/FC and FC on the same port
- D. a LIF with both fc-nvme and fcp data protocols

Correct Answer: A Section: (none) Explanation

Explanation/Reference:





Question

Exhibit

slot 0: Fibre Channel Target Host Adapter 0e

OLogic CNA 8324 (8362) rev. 2, <LINK NOT CONNECTED>)

Firmware rev: 8.5.1 Flash rev: 4.1.0 Host Port Addr: 000000

FC Nodename: 50:0a:09:80:80:c1:72:4b (500a098080c1724b)
FC Portname: 50:0a:09:84:80:c1:72:4b (500a098480c1724b)

Connection: No link Switch Port: Unknown SFP Vendor Name: AVAGO

SFP Vendor P/N: ArBR-7038mz-NA3

SFP Vendor Rev: G2.3

SFP Serial No.: AD1405A0628

SFP Connector: LC

SFP Capabilities: 10 Gbit/Sec

You connected your FAS8200 to a Brocade SAN switch. As shown in the exhibit, port 0e is not available.

In this scenario, which statement is correct?

A. The incorrect SFP+ module is installed.

- B. The switch zoning is using the FC nodename.
- C. The incorrect firmware revision is installed.
- D. The switch port is configured for mode E_Port.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 50

An administrator wants to design an NVMe solution to connect Linux hosts to an ONTAP cluster. The proposed solution uses two Cisco MDS 9396T switches for each fabric in a top-of-rack design.

In this scenario, which statement is true?

- A. Asymmetric Namespace Access requires ONTAP 9.4 and higher.
- B. NVMe solutions require heterogeneous multiple switch fabrics.
- C. N_Port ID virtualization (NPIV) must be enabled on all switches.
- D. A middle-of-rack design is required.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:





On your ONTAP 9.5 cluster, you need to set up the onboard key manager with hardware-based security and volume encryption. Which

two licenses are required in this situation? (Choose two.)

A. FDE

B. TPM

C. VE

D. RSA

Correct Answer: CD Section: (none) Explanation

Explanation/Reference:

QUESTION 52

A customer is planning to connect a Linux server to a FAS8200 using Brocade FC switches. During the initial configuration, the SVM does not log in to the fabric. Which

two statements are correct in this scenario? (Choose two.)

- A. NPIV has not been enabled on the switches.
- B. The switch port topology is set incorrectly to the E_Port.
- C. ALUA has not been set up on the FAS8200.
- D. Zoning is incorrectly configured between the Linux server and the ONTAP cluster.

Correct Answer: AC Section: (none) Explanation



QUESTION 53

You need to configure iSCSI on your existing ONTAP cluster in a new SVM. The iSCSI LUNs will be served over a new Layer 2 network using the same physical ports that also use the CIFS protocol on a different SVM. Which

two actions should you perform to accomplish this task? (Choose two.)

- A. Create a new portset.
- B. Create a new VLAN.
- C. Create a new broadcast domain.
- D. Create a new AD object.

Correct Answer: BC Section: (none) Explanation

Explanation/Reference:



Question

Exhibit

1-rtp:admin> porterrshow

	fr	ames	enc	crc	crc	too	too	bad	enc	disc	link	loss	loss	frj:
	tx	rx	in	err	_eof	shrt	long	eof	out	c3	fail	sync	sig	
0:	2m	10	0	1.1m	0	0	0	0	1k	0	2	0	2	0
1: 542.3m	2.5g	0	0	0	0	0	0	0	0	0	2	0	0	0
2: 563.1m	4.0g 0	0	0	0	0	0	8	0	0	0	2	0	0	0
3:	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:	1.8q	3.9g	0	0	0	0	0	0	0	0	0	0	0	0

Referring to the exhibit, what is the problem with switch port 0?

- A. The transmit and receive links were switched.
- B. The SFP+ is faulty.
- C. The receive power is lower.
- D. The link is not connected.

Correct Answer: C Section: (none) Explanation



Explanation/Reference:

QUESTION 55

An administrator has expanded a 2-node ONTAP cluster to a 4-node ONTAP cluster. The cluster is using FC LUNs with all of the default settings. You must rebalance the LUNs to the new nodes.

Which configuration must be made to achieve this requirement?

- A. The new nodes must be added to the reporting nodes list.
- B. All nodes must be removed from the reporting nodes list.
- C. The original nodes must be added to the reporting nodes list.
- D. The original nodes must be removed from the reporting nodes list.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:



Question

Exhibit

::> 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/voll/qtreel/lun1 disabled

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

A. the aggregate

B. the gtree

C. the volume

D. the LUN

Correct Answer: C Section: (none) Explanation

Explanation/Reference:



QUESTION 57

Question	Exhibit
----------	---------

AFF::> ucadmin show

		Current	Current	Rending	Rending	Admin
Node	Adapter	Mode	Type	Mode	Type	Status
AFF 1	0e	cna	target	-	_	online
AFF 1	Of	cna	target	-	(**)	online
AFF 1	0g	cna	target	-	_	online
AFF 1	Oh	cna	target	_	-	online
AFF 1	1a	fc	target		-	online
AFF 1	1b	fc	target	_	-	online
AFF 2	0e	fc	target		-	online
AFF 2	Of	fc	target	_	-	online
AFF 2	0g	fc	target	-	(m)	online
AFF 2	Oh	fc	target	-	_	

10 entries were displayed.

A customer needs to change ports 0e and 0f on AFF_1 to support FC.



Referring to the exhibit, which three steps are required to accomplish this task? (Choose three.)

- A. Issue the ucadmin modify -node AFF 1 -adapter 0e -mode FC -type target command.
- B. Issue the ucadmin modify -node AFF 1 -adapter 0e -mode FC -typeinitiator command.
- C. Restart the FC service.
- D. Take ports 0e and 0f offline.
- E. Reboot the node.

Correct Answer: BCD Section: (none) Explanation

Explanation/Reference:

QUESTION 58 You want to connect a NetApp AFF A700 to a 32 Gb FC switch. The ports need to connect at 32 Gb speed.

In this scenario, which statement is correct?

- A. The AFF A700 includes FC ports natively on the controller.
- B. The AFF A700 includes an additional FC I/O module that is already populated in each controller.
- C. You need to purchase a two-port or four-port unified I/O module that enables FC and Ethernet connectivity.
- D. You need to purchase a two-port or four-port FC I/O module.

Correct Answer: C Section: (none) Explanation

QUESTION 59

Explanation/Reference:



www.vceplus.com - Free Questions & Answers - Online Courses - Convert VCE to PDF - VCEplus.com



Exhibit Question ::> 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 voll deduplicated Filesystem %total-saved used total-saved

&compressed

29524919032 14762459516

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.

deduplicated

/vol/vol1/

B. Enable cross-volume deduplication.

compressed

- C. Disable inline deduplication.
- D. Enable post process deduplication.
- E. Enable data compaction.

Correct Answer: CDE Section: (none) Explanation

Explanation/Reference:

14762459516.com

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