NetApp Certified Implementation Engineer (NS0-520)

	Question	xhibit	
	::>network	interface	show -fields data-protocol
1.	vserver	lif	data-protocol
	svm-iscsi1		nfs,cifs
	arm_iaaai1	1:42	nfo oifo

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.
g
D. Map LUNs to the igroups.

Answer(s): D

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
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Answer(s): A

	Question Exhibit						
	cl1::> ucadmin show	v.					
			Current	Current	Pending	Pending	Admin
	Node	Adapter	Mode	Type	Mode	Туре	Status
	01a	0e	cna	target	-	-	online
3.	01a	0f	cna	target	-	-	online
	01a	0g	cna	target	-	fc	online
	01a	0h	cna	target	-	fc	online
	01b	0e	cna	target	- "	-	online
	01b	0f	cna	target	-	-	online
	01b	0g	fc	target	-	-	online
	01b	0h	fc	target	-	-	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	

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.

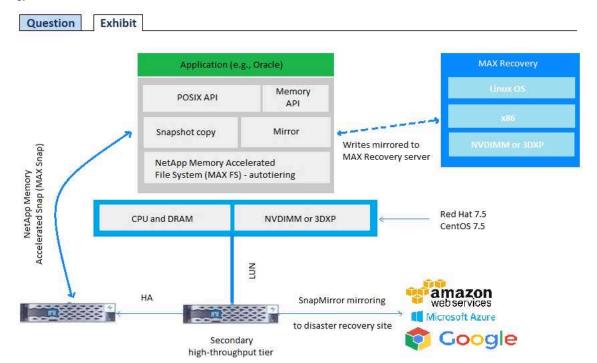
B. The existing data is compacted.

C. The new written data is compacted.

D. The existing data is not compacted.

Answer(s): A

5.



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	

Answer(s): D

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.
Answer(s): A
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.
Answer(s): C D
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.
Answer(s): B C E

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	e none	
vfc3	20:02:00:0d	:ec:b4:94:3f	Offline	e none	
vfc4	20:03:00:0d	:ec:b4:94:3f	Offline	e none	
vfc5	20:04:00:0d	:ec:b4:94:3f	Offline	e none	
2/1	20:41:00:0d	:ec:b4:94:00	Offline	e none	
2/2	20:42:00:0d	:ec:b4:94:00	Online	F-por	t 50:0a:09:80:00:05:a2:4
2/3	20:43:00:0d	:ec:b4:94:00	Online	F-por	t 50:0a:09:85:8d:9d:bf:c
2/4	20:44:00:0d	:ec:b4:94:00	Online	F-por	t 50:0a:09:85:8d:ad:c0:0

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.

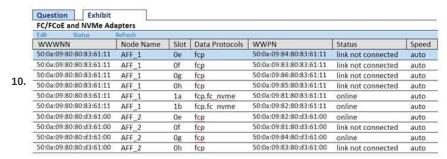
Referring to the exhibit, what needs to be enabled on the Cisco switch?

- A. Trunking needs to be enabled.

 B. VSAN needs to be enabled.

 C. NPIV needs to be enabled.
- D. VFC needs to be enabled.

Answer(s): D



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.
- C. The FC LUNs on node AFF_2 will be unavailable after failover of AFF_1.
- D. The NVMe namespaces on AFF_1 will be unavailable after takeover by AFF_2.

Answer(s): C

Question Exhibit

cl1::> network fcp adapter show

		Connection	Port	Admin	Operational
Node	Adapter	Established	Address	Status	Status
node1	0e	false	0	up	link not connected
node1	0f	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	0f	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 node
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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.

Answer(s): B

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.
- $\hbox{D. Rescan the LUN disk in your Windows host so that it will notify NetApp about the free space.}\\$

Answer(s): D

	Question	Exhibit					
	cluster01::> s	ystem hard	ware unif	fied-connec	t show -n	ode clust	er01-01
			Current	Current	Pending	Pending	Admin
	Node	Adapter	Mode	Type	Mode	Type	Status
12	cluster01-01	0c	can	target		_	online
13.	cluster01-01	0d can		target	=	-	online
	cluster01-01	1a	fc	target	-	-	offline
	cluster01-01	1b	fc	target	-	-	offline
	cluster01-01	1c	fc	initiator	-	-	online
	cluster01-01	1d	fc	initiator	- <u>-</u>	_	online
	6 entries were	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. 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.
Answer(s): A
14. Which two features does Assymmetric Namespase Access (ANA) support? (Choose two.)
☐ A. multipathing
☐ B. LUN masking
☐ C. LUN hosting
□ D. path management
Answer(s): A D
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
Answer(s): C
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)
Answer(s): B
17. You deployed a new SVM for FC access, and you used the vserver fcr, create -vserver svm1 - status-

17. You deployed a new SVM for FC access, and you used the vserver fcr, create -vserver svm1 - 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.

Answer(s): B

18.

Question Exhibit

Supported Adapter Cards - AFF A700 9.5 ONTAP

Supported Adapter Cards - AFF A700 9.5 ONTAP										
	Platform Configuration: Single Chassis HA Pair									
Priority	Category	Bus Type	Mktg Part No	Images	LED	Mig Part No	Description	Optical Module	C	
1	NVRAM	IO Module	X93140A		View	111-03190	NVRAM10	Not Supported	V	
							32GB			
2	Networking	IO Module	X91440A ^[2]		View	111-02590	2p 40GbE NIC	QSFP Optional	V	
							Cu/Op			
									_	
3	Block	IO Module	X91135A		View	111-03789	4p 32Gb FC SFP	SFP + Included	Vi	
	Access						- Op			
_	-								-	
4	Block	IO Module	X91134A		View	111-03431	2p 32Gb FC Op	SFP + Included	Vi	
	Access									
5	Block	IO Module	X91143A		View	111-02397	4p 16Gb 10Gb	SFP + Optional	Vi	
"	Access	lo iviodule	V21142W		view	111-02397	UTA2 Cu/Op	31 P + Optional	VI	
	Access						OTAZ CU/OP			
	1	1			l	I	l	[1	

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		

Answer(s): C

19. 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.
Answer(s): C D
20. A customer is required to encrypt iSCSI traffic across their public network. In this scenario, which method will accomplish this task?
In this scenario, which method will accomplish this task?
In this scenario, which method will accomplish this task? A. dot1q
In this scenario, which method will accomplish this task? A. dot1q B. IPsec