

NS0-182.42q

Number: NS0-182 Passing Score: 800 Time Limit: 120 min

NS0-182



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Certified Storage Installation Engineer, ONTAP

Exam A

QUESTION 1



You completed the installation of an AFF A700s with NetApp CN1610 switches. You used ports e0a and e0f with breakout cables to connect the controllers to the interconnect switches. After completing the cluster setup, ports e0e and e0i are not visible in OnCommand System Manager. In this scenario, what caused this problem?



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- A. Breakout cables were used and the second port on the same ASIC became disabled.
- B. This is a hardware error and you must open a case with NetApp Support.
- C. You must first enable the ports using the network port modify command.
- D. You are missing a license to enable those ports.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMP11694144

QUESTION 2

A 4-node cluster has connectivity for both block and file access. Nodes 1 and 3 are used for file access, and nodes 2 and 4 are used for block access. During routine maintenance, node 4 is switched off and the LIFs are migrated to other nodes. Upon investigation, you see that the LIFs that serve file traffic have moved to alternative ports. However, LIFs that serve the block have not migrated. In this scenario, what is happening?

- A. The failover group is configured incorrectly.
- B. The fiber switch is configured incorrectly.
- C. There is a faulty SFP.
- D. The LIFs that serve the block protocol do not failover.

Correct Answer: B Section: (none) Explanation Explanation/Reference:





QUESTION 3

A customer has a 6-node AFF A700 cluster and wants to add four nodes without having to update license functionality for each node manually. In this scenario, which type of license provides this functionality?

- A. Demo License
- B. Site License
- C. Standard License
- D. Evaluation License

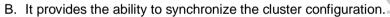
Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 4

In a 4-node cluster, what are two functions of the HA interconnect? (Choose two.)

A. It provides the ability to relocate the aggregate ownership.



C. It provides nondisruptive operations and fault tolerance.

D. It provides the ability to migrate a data aggregate to any node in the cluster.

Correct Answer: AC Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMP1610209

QUESTION 5

You are cabling two Cisco 3232C switches for the cluster interconnect of a 4-node AFF A800 cluster. Which pair of ports are used to cable the Inter-Switch Link (ISL) between the switches?

- A. 1/21 to 1/24
- B. 0/13 to 0/16
- C. 1/31 and 1/32
- D. 0/1 and 0/2

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Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 6





Broadcast I	Domains			
+ Create	edit 🛛 🐨 Delete	C Refresh		
Broadca 👳	MTU 📼	IPspace =	Combine =	VIP Broadc 🤝
CIFS	2500	Default	complete	No
Cluster	1500	Cluster	complete	No
Default	1500	Default	complete	No
Port Details				
Port Name	cluster1-01		CEplus	
a0a	0			
e0d	0			
e0g	0			

After a storage failover, you notice that a NAS LIF, that is linked to the broadcast domain CIFS, is no longer reachable after the takeover. Node cluster1-01 is still waiting for giveback.

Referring to the exhibit, what caused the problem?

- A. Port a0a of node cluster1-01 is down.
- B. The LIF has to be configured with a failover group.
- C. The ports of cluster1-02 are missing in the broadcast domain.
- D. The broadcast-domain MTU needs to be either 1500 or 9000.

Correct Answer: D



Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-ug-rdg%2FGUID-3EC50093-6858-46B4-8B70-0B5AE4BDAB69.html

QUESTION 7

Which NetApp tool should you use to set up an ONTAP 9.5 cluster?

- A. Config Advisor
- B. System Setup
- C. SANtricity Storage Manager
- D. OnCommand System Manager

Correct Answer: A			
Section: (none)			
Explanation			

Explanation/Reference:

Reference: http://www.admin-sys.com/IMG/pdf/Config_Advisor_3-2_Installation_and_Administration_Guide.pdf

QUESTION 8

While preparing for a new ONTAP installation, you discover an issue with the controllers that are running ONTAP 9.5. The issue is not affecting controllers that are running ONTAP 9.4 with the latest patch version.

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In this scenario, which two steps should you perform to solve the problem? (Choose two.)

- A. Review the issue with the customer's deployment to see if it would be affected.
- B. Inform your customer that they must always install the latest supported ONTAP release.
- C. If the controllers are in a Product Support Bulletin with ONTAP 9.5, open a case and wait for support to provide a patch release.
- D. Download ONTAP 9.4 with the latest patch version and ONTAP 9.5 for an eventual rollback on the day of the installation.

Correct Answer: CD Section: (none) Explanation

Explanation/Reference:

QUESTION 9

Which keyboard combination enables you to access the Service Processor (SP) or the Board Management Control (BMC) from the system console CLI?

A. Ctrl + D



B Ctrl + G C. Ctrl + SD. Ctrl + C

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1001033/~/what-is-a-baseboard-management-controller-%28bmc%29-and-how-do-i-use-it%3F-

QUESTION 10

You are installing a new 2-node AFF A220 cluster running ONTAP 9.5. The customer would like to use the UTA2 adapters from the first controller to connect to the 10GbE front-end switches. On the second controller, they would like to use the first UTA2 port as a target FC port, and the second as an FC initiator. In this scenario, according to NetApp Best practices, what should your customer do?

- A. Change all the UTA2 ports from CNA mode to FC mode.
- B. Change all the UTA2 ports to CNA to support both FC and Ethernet.
- C. Change the first two ports of each controller to FC and the last two to CNA.D. Change the UTA2 ports from CNA mode to FC mode on the first controller.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP284266_7

QUESTION 11

You were asked to install a FAS9000 with two quad-port SAS PCI cards. The SAS PCI cards are installed in slot 9 and slot 1. In preparation for the installation, you are filling out the SAS cabling worksheet.

In this scenario, which ports are used for the second stack?

A. 9a/1d



B. 9c/1a C. 9b/1b D. 9a/1a

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 12

What are two types of load balancing methods available in multimode interface groups? (Choose two.)

A. broadcast domain-based load balancing

- B. IP-based load balancing
- C. LIF-based load balancing
- D. port-based load balancing

Correct Answer: BD Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.netapp.com/ontap-9/topic/com.netapp.doc.dot-cm-nmg/GUID-27EAC723-A07A-4F60-A1AC-8E91AE6AE82E.html

QUESTION 13

You are deploying a cluster with four AFF A300 nodes and Cisco 3232C switches. When you arrive at the customer's site, you notice that there are multiple breakout cables and four Cisco 3232C switches. In this scenario, which statement is true?

- A. A 4-node AFF A300 cluster requires four Cisco 3232C switches.
- B. Cisco best practices require four Cisco 3232C switches for high availability.
- C. A 4-node AFF A300 cluster requires two Cisco 3232C switches for the cluster interconnect and two for management.
- D. Your customer ordered a MetroCluster IP configuration.

Correct Answer: C Section: (none) Explanation Explanation/Reference:





QUESTION 14

Which statement about LIFs is true?

- A. Cluster LIFs and data LIFs can share a port.
- B. One cluster-management LIF exists per node.
- C. One port can host multiple data LIFs.



https://vceplus.com/ D. A data

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LIF can be associated with multiple SVMs.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecmdocs/ECMP1196907/html/GUID-C8355A55-5063-4EF5-B0D2-91BC187681D5.html

QUESTION 15

cluster::> system node autosupport history show -node node1

	Seq		22.17	Attempt
Node	Num	Destination	Status	Count
node1	1			
		smtp	re-queued	13
		http	ignored	15
		https	failed	15

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You configured AutoSupport and are trying to send a full AutoSupport message to NetApp. You use the autosupport history show command and see the output shown in the exhibit. The customer confirms that the AutoSupport settings are correct. Which two actions will solve this issue? (Choose two.)

- A. The customer needs to enable AutoSupport for both nodes.
- B. The customer needs to exclude the two nodes from the attachment-size limitation.
- C. The customer needs to change the transport protocol to HTTP.
- D. The customer needs to white-list the two nodes on their mail server.

Correct Answer: AC Section: (none) Explanation

Explanation/Reference:

QUESTION 16

You are using a NetApp CN1610 cluster-interconnect switch and need to connect a new AFF A800A node to the switch. In this scenario, how many Ethernet ports per node are required on each switch?

A. 2
B. 4
C. 6
D. 1
Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17

You have just installed a new AFF A220 4-node cluster with ONTAP 9.5 for a customer. Which two cluster switches are supported in this scenario? (Choose two.)

A. Cisco Nexus 5596UP

- B. Brocade 6510
- C. Cisco MDS 9148S
- D. NetApp CN1610





Correct Answer: AD Section: (none) Explanation

Explanation/Reference:

QUESTION 18

You install a new 2-node FAS8200 switchless cluster. You want to reach all necessary management LIFs and SPs for this cluster. How many management IP addresses do you need in this scenario?

- A. 1
- B. 2
- C. 5
- D. 4

Correct Answer: C Section: (none)

Explanation

Explanation/Reference: QUESTION 19

You have to disable a switch that is connected to a port on your FAS2750. You notice that the LIFs that are associated with this port are migrated to a port that is not expected.

In this scenario, what would cause this behavior?

- A. The network port is configured incorrectly.
- B. The broadcast domain is configured incorrectly.
- C. There are no online ports within the same failover group.
- D. The network failover port is not licensed.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 20

Which type of partitioning would you use when installing a FAS8200 with 24 SAS drives running ONTAP 9.5?





- A. root-root-data partitioning
- B. root-data-data partitioning
- C. root-data partitioning
- D. root-root-data-data partitioning

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2496263

QUESTION 21

Your customer wants to buy four new DS212C shelves with an 8 TB SATA drive. The customer also wants to know the usable aggregate size of this configuration. In this scenario, which resource would you use to accomplish this task?

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

Correct Answer: B Section: (none) Explanation

Explanation/Reference: Reference: https://library.netapp.com/ecm/ecm_download_file/ECMP1119629

QUESTION 22





slot 0: SAS Host Adapter 0a (PMC-Sierra PM8070 rev. C, SAS, <UP>) Firmware rev: 03.08.09.00 Base WWN: 5:00a098:00b1109:b0 [0] Enabled, 12.0 Gb/s Phy State: [1] Enabled, 12.0 Gb/s [2] Enabled, 12.0 Gb/s [3] Enabled, Rate unknown Mini-SAS HD Vendor: Molex Inc. Mini-SAS HD Part Number: 112-0435+A0 Mini-SAS HD Type: Passive Copper (unequalized) 0.5m ID:00 Mini-SAS HD Serial Number: 814531111 X374 S1643960ATE NA52 915.4GB 520B/sect (S3SENE0K911372) 00.0 : NETAPP X374_S1643960ATE NA52 915.4GB 520B/sect (S3SENE0K911377) 00.1 : NETAPP

After completing the installation of a DS224C shelf, you observe the error shown in the exhibit. Which action should you take to troubleshoot the error? (Choose two.)

- A. Re-seat the IOM module.
- B. Re-seat the SAS card.
- C. Perform a takeover-giveback.
- D. Reconnect the SAS cable.

Correct Answer: AD Section: (none) Explanation

Explanation/Reference:

QUESTION 23

What is the maximum number of data disks that a RAID-TEC RAID group has?

A. 26

B. 20



C. 29 D. 24

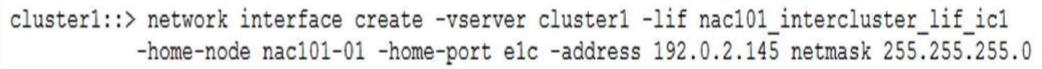
Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 24

You want to create a new intercluster LIF for cross-cluster replication and use the CLI. After you create the nacl01_intercluster_lif_icl LIF, you are not able to see the LIF in the list of local intercluster LIFs. Referring to the exhibit, what is the problem?

- A. The assigned port for the intercluster elc LIF is in the down admin state.
- B. The intercluster LIF has assigned an IP address that is not in the intercluster VLAN.
- C. The LIF that was created has the wrong role type.
- D. The home node of the new intercluster LIF has reached the maximum of four intercluster LIFs.



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Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 25

You are creating an aggregate on a new FAS8200 with two DS224C shelves. Your customer wants to be able to use the Disk Maintenance Center. In this scenario, what is the minimum number of spare disks required per node and disk type?

A. 4

B. 3

C. 2



D. 1

Correct Answer: C Section: (none) Explanation

Explanation/Reference: Reference: <u>https://library.netapp.com/ecm/ecm_download_file/ECMLP2496263</u>

QUESTION 26

You installed a new AFF A800 2-node ONTAP 9.5 cluster and are asked to run diagnostics to validate the hardware. Which command is used from the loader prompt to enter diagnostics?

- A. printenv
- **B.** savenv
- C. sldiag
- $D.\ {\tt boot_diags}$

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2802058

QUESTION 27

Which two configurations use root-data-data partitioning? (Choose two.)

- A. FAS8080 with 1.8 TB external SAS drives
- B. AFF A800 with 3.8 TB internal NVMe SSD drives
- C. FAS2650 with 1.8 TB internal SAS drives
- D. AFF A220 with 3.8 TB internal SSD drives

Correct Answer: AB Section: (none) Explanation

Explanation/Reference:





QUESTION 28

You are creating a new aggregate with one RAID-TEC RAID group. How many parity drives are used in this scenario?

A. 1

B. 3

C. 4

D. 2

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 29

You are installing a pair of Cisco Nexus 3132Q-V cluster switches and receive several syntax errors when the reference configuration file (RCF) is applied. In this scenario, what are two reasons for these errors? (Choose two.)

A. An RCF file for a different version has been loaded.

B. The switch was not in maintenance mode.

C. The RCF was already applied.

D. Cables were not removed before applying the RCF.

Correct Answer: AC Section: (none) Explanation

Explanation/Reference:

QUESTION 30

You have just completed the installation of a FAS9000 HA pair with ONTAP 9.5. In this scenario, according to NetApp best practices, which two tests verify the HA failover functionality? (Choose two.)

- A. Pull the motherboard out of the slot.
- B. Disconnect the HA interconnect cabling.
- C. Power cycle the node.





D. Invoke a system core.

Correct Answer: CD Section: (none) Explanation

Explanation/Reference:

QUESTION 31

You just installed a new AFF A220 2-node cluster without additional disk shelves. When you review the Config Advisor output, you notice that your SAS cabling appears to be single-path HA.

In this scenario, which statement is true?

- A. The Config Advisor version you are using requires a plugin for AFF controllers.
- B. AFF A220 controllers with internal disks support only single-path HA.
- C. Cable controller 1 0a to controller 2 0a, and cable controller 1 0b to controller 2 0b.
- D. Cable controller 1 0a to controller 2 0b, and cable controller 1 0b to controller 2 0a.

Correct Answer: D Section: (none) Explanation

Explanation/Reference: QUESTION 32 Which statement regarding a node-management LIF is true?

- A. The LIF can be set only on the built-in node-management port e0M.
- B. The LIF must use two switches for redundancy purposes.
- C. The LIF can be set up on a dedicated VLAN in the data network.
- D. The LIF can be set up on a dedicated VLAN in the cluster network.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecmdocs/ECMP11694143/html/GUID-EFBAB832-8ABA-44D0-86A3-273CB52872B7.html

QUESTION 33





Click the Exhibit button.



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rd00::> net int show -lif node01 lif1, node01 lif2, node01 lif3, node01 lif4, (network interface show) Logical Status Network Current Current Is Admin/Oper Address/Mask Interface node Home Vserver port fs00 node01 lif1 up/up 10.10.9.1/24 rd00 n01 a0a true node02 lif1 up/up 10.10.9.2/24 rd00 n01 a0a true node03 lif1 up/up 10.10.9.3/24 rd00 n02 a0a true node04 lif1 up/up 10.10.9.4/24 rd00 n02 a0a true rd00::> broadcast show -ipspace Default (network port broadcast-domain show) IPspace Broadcast Update Status Domain Name Details Name MTU Port List .com 10.10.9.0/24 Default 1500 rd00 n05:a0a complete rd00 n04:a0a complete rd00 n03:a0a complete rd00 n01:a0a complete rd00 n02:a0a complete rd00 n07:a0a complete rd00 n08:a0a complete rd00 n06:a0a complete rd00 n07:a0b-2250 complete rd00 n08:a0b-2250 complete 10.225.0.0/24 9000 rd00 n05:a0b-2250 complete rd00 n04:a0b-2250 complete rd00 n03:a0b-2250 complete rd00 n01:a0b-2250 complete rd00 n02:a0b-2250 complete rd00 n06:a0b-2250 complete

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You have an 8-node cluster, and sometimes the data LIFs fail over to a non-working port.

Referring to the exhibit, what must you do to solve this problem?

- A. Configure more than one IPspace.
- B. Configure the MTU consistently across the cluster.
- C. Configure the correct Ethernet ports in all broadcast domains.
- D. Configure the LIFs using separate home nodes.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 34

After setting up a new cluster, you run an AutoSupport message for a test.

Which two commands would you use to proof the functionality and settings of AutoSupport? (Choose two.)

A. system node autosupport show $% \left(A_{1}^{2}\right) =\left(A_{1}^{2}\right) \left(A_{1}^{2}\right)$

 $\boldsymbol{B}.$ system node autosupport history show

 $\ensuremath{\mathsf{C}}.$ system node autosupport option show

 $\mathsf{D}.$ system node autosupport show history

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-sag%2FGUID-D4B6F57E-14B6-49F8-BA7E-48736542B69F.html

QUESTION 35

What are two reason why automatic giveback fails? (Choose two.)

- A. SAN sessions are established.
- B. Storage failover is disabled.
- C. NFS sessions are established.

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D. The disk shelf is too hot.

Correct Answer: BD Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecmdocs/ECMP1196905/html/GUID-3E298653-6454-4F1F-86E7-439866056AD7.html

QUESTION 36

A customer wants to expand a 10-node AFF A700s NAS cluster running with Cisco Nexus 3132Q-V cluster interconnect switches using new nodes.

In this scenario, what is the maximum number of nodes to be added into this cluster?

Α.	24	
В.	2	
C.	12	
D.	14	

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 37 Which statement describes an SVM?

- A. An SVM is a logical device that shares data.
- B. An SVM is a node in the cluster.
- C. An SVM is a logical network interface.
- D. An SVM is a storage volume type.

Correct Answer: D Section: (none) Explanation Explanation/Reference: Reference: <u>https://library.netapp.com/ecmdocs/ECMP1354558/html/GUID-E643017F-041B-4ECC-BEA1-E4D80E26A47E.html</u>





QUESTION 38

Which hot-swappable transceiver is required to obtain full performance from a Cisco Nexus 3232C cluster-interconnect switch?

- A. QSFP28
- B. QSFP+
- C. SFP+
- D. SFP

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2843147

QUESTION 39

You complete a hardware installation on a CN1610 switch and establish a serial connection to the RJ45 port.

In this scenario, the established serial connection allows the installer to complete which two tasks for the switches initial configuration? (Choose two.)

- A. to view network information that has been dynamically assigned to the management interface by the DHCP server on the network
- B. to use the serial port connection as a diagnostic channel to the second CN1610 switch in the cluster interconnect
- C. to configure the switch with another CN1610 switch using Cross-Stack EtherChannel configuration for load balancing and performance
- D. to manually configure the static network information

Correct Answer: AD Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMP1117853 (34)

QUESTION 40

What is the maximum port speed of an Ethernet port on a Cisco Nexus 3232C cluster-interconnect switch?

- A. 40GbE
- B. 200GbE
- C. 10GbE
- D. 100GbE



Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2843154

QUESTION 41

A customer wants you to add a new AFF A700 HA pair to an existing 4-node AFF8080 EX cluster. The existing cluster uses NetApp CN1610 switches for the cluster connection and is using the recommended port count.

Which statement is true in this scenario?

- A. You cannot have more than four nodes with AFF.
- B. There are not enough ports available on the cluster switch.
- C. The AFF A700 is not supported with NetApp CN1610 switches/
- D. You cannot mix different AFF models in the same cluster.

Correct Answer: D Section: (none) Explanation



Explanation/Reference:

QUESTION 42

After performing a controller upgrade on an HA pair in an ONTAP 9.5 cluster, you want to decommission the old systems.

Which statement is correct in this scenario?

- A. Ask the customer to log in to http://mysupport.netapp.com and decommission the old systems.
- B. The systems do not need to be decommissioned because the serial numbers are overtaken by the new systems.
- C. Decommissioning is done automatically when the systems no longer send AutoSupport messages.
- D. Open a Priority 1 technical case with NetApp Global Support and specify "Decommission" in the title.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMLP2659356 (105)





