

**NS0-181.exam.27q**

Number: NS0-181  
Passing Score: 800  
Time Limit: 120 min



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**NS0-181**

**NetApp Certified Storage Installation Engineer, ONTAP**

## Exam A

### QUESTION 1

Click the Exhibit button.

**fc09n02 (AFF-A700)**

#### ***System Storage Configuration***

Name	Disk Count	Notes	Details
5b   5c   7c   7d	12	Stack Same Card	Modules of the stack are connected to the same PCI Card.
5a   5d   7a   7b	12	Stack Same Card	Modules of the stack are connected to the same PCI Card.

#### ***Node Rule Failures and Warnings***

Controller Name	Rule/Check	Description	Severity	Details
fc09n02	Shelf Path Checks	Checking the pathing configuration of the shelves	Low Impact ▼	Modules of the stack "5b 5c 7c 7d" are connected to the same PCI card.
fc09n02	Shelf Path Checks	Checking the pathing configuration of the shelves	Low Impact ▼	Modules of the stack "5a 5d 7a 7b" are connected to the same PCI card.

After running Config Advisor 5.0 on a newly deployed ONTAP system, you are reviewing the output with the customer, and you find the warnings shown in the exhibit.

Which action should you perform before you leave the customer site?

A. Explain to the customer that the warnings are not relevant because of the quad-path HA cabling.

- B. Remove all of the SAS cables from behind the controllers and replace them with FC cables.
- C. Explain to the customer that Config Advisor does not support the AFF A700 and FAS900 systems.
- D. Review the Hardware Universe Web site for calling guidance.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 2

What is the main function of ACP?



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- A. It allows cabling the shelf to two additional controllers.
- B. It allows the controller to use Ethernet instead of SAS to fetch the storage data.
- C. It allows the controller to nondisruptively reset the SAS expanders.
- D. It enables the automatic shelf ID assignment.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 3

After the installation of a new 2-node cluster, you want to make sure that AutoSupport is working as expected from the cluster.

In this scenario, what are two ways to trigger a new Auto Support? (Choose two.)

- A. Use the `ping` command on the mailhost.
- B. Use the OnCommand UnifiedManager GUI.
- C. Use the OnCommand System Manager GUI.
- D. Use the `system node autosupport invoke -type test` command.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 4

You want to expand an existing FAS8060 switchless cluster running ONTAP 9.1 with an AFF A300 system.

Which action should you take to perform this task?

- A. Execute the `cluster setup` command on the existing FAS8060 cluster, add the cluster interconnect switches, and cable both the FAS8060 cluster and the AFF A300 system to the new cluster.
- B. Create a separate switchless cluster with the AFF A300 system.
- C. Connect the cluster ports of the AFF A300 system to the existing FAS8060 cluster, and join the existing cluster.
- D. Add and configure the cluster interconnect switches, re-cable the FAS8060 cluster, add the AFF A300 system, and join the existing cluster.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

A customer has a stack of shelves with both DS4243 shelves and DS4246 shelves. The customer wants to replace the DS4243 shelves with new DS4246 shelves.

What would you advise the customer in this scenario?

- A. Convert the ACP communication from out-of-band to in-band channel.
- B. Remove the ACP cabling from the stack before adding the new shelves.
- C. Remove the DS4243 shelves, but you must add the new DS4246 shelves to a new stack.
- D. Configure the shelf IDs of the new DS4246 shelves to match the existing DS4246 shelves. **Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 6

Without adding new cluster interconnect switches, you want to nondisruptively upgrade from FAS2554 controllers to FAS8200 controllers on an existing 2-node switchless cluster running ONTAP 9.1 software.

Which statement is correct in this scenario?

- A. Relocate the aggregates to one FAS2554 node, takeover, replace the node in takeover state with a FAS8200 node, reassign the disks, giveback, and repeat for the second node.
- B. Connect the FAS8200 to the FAS2554 with interconnect cables, join the existing cluster, relocate the aggregates from the FAS2554 to the FAS8200, and decommission the FAS2554.
- C. Set up the FAS8200 as a new cluster, move the SVMs from the FAS2554 to the FAS8200 using SVM move, and decommission the FAS2554.
- D. You cannot perform this task nondisruptively.

**Correct Answer: A**

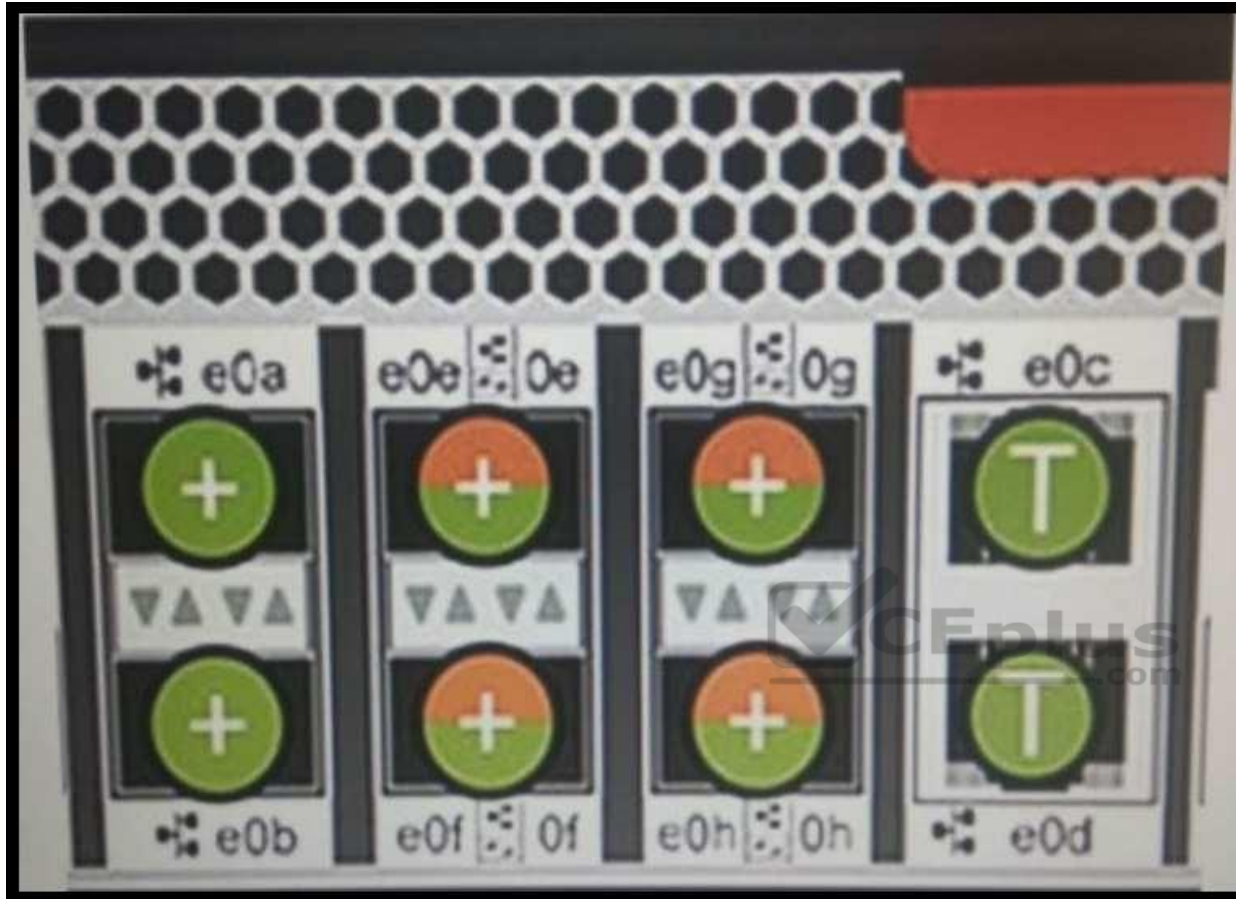
**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 7

Select the Exhibit tab.



You finished the installation of a new FAS8200 system. The customer wants to use FC and 10G Ethernet but only has the onboard UTA2 ports available.

Referring to the exhibit, which two sets of ports would the customer use? (Choose two.)

- A. e0e, 0f and e0g, 0h
- B. 0e, 0f and e0g, e0h
- C. 0e, e0f and 0g, e0h
- D. e0e, e0f and 0g, 0h

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 8**

You have just installed a new FAS2650 HA for your customer. You are now configuring the NetApp AutoSupport transport section.

In this scenario, what is the NetApp best practice for this task to allow AutoSupport on Demand (ASOD)?

- A. Use SMTP.
- B. Use HTTPS.
- C. Use HTTP.
- D. Use SSH.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 9**

You are going to add a node to an existing cluster but first you must gather the appropriate information for the new node's management LIF.

What two pieces of information is required to accomplish this task? (Choose two.)

- A. IP address



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- B. NTP server address
- C. Service Processor Information
- D. default gateway

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

After an installation, your customer asks you if you have a solution or a product that can easily list all the elements of a running ONTAP cluster, and highlight the changed and new objects including IP addresses, subnets, IPspaces, SVMs, volumes, and LUNs. For easy modification the output should be a document or a spreadsheet. Your customer does not have any PowerShell or scripting knowledge.

In this scenario, which Windows PowerShell-based NetApp tool would help to extract this information?

- A. NetApp Management SDK
- B. NetAppDocs
- C. NetApp PowerShell Toolkit
- D. NetApp Synergy

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

You are dispatched to install a new cluster with six AFF A300 nodes. While running Config Advisor, you determine that there is a newer firmware version for 48 SSDs.

Which statement is correct in this scenario?

- A. Prior to leaving the site, tell the customer that a later firmware exists for those disk drives, but that the upgrade will provoke downtime.



- B. Unless the customer advises otherwise, upgrade the firmware on the SSDs to clear the Config Advisor error.
- C. Prior to leaving the site, advise the customer that the firmware is included in the version of ONTAP that they downloaded.
- D. Unless the customer advises otherwise, leave the firmware alone and document the version of ONTAP being used to explain the issue.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

After completing an installation, the customer wants to know how they can manually open a new technical case with NetApp Global Support.

What are three ways to accomplish this task? (Choose three.)

- A. Use the support site.
- B. Use the NetApp Field Portal.
- C. Use the mobile app.
- D. Use a telephone.
- E. Use AutoSupport.



**Correct Answer:** CDE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 13

You finished an ONTAP 9.1 installation using the information provided by the customer, but the NFS exports and CIFS shares cannot be accessed using the newly created data LIFs.

In this situation, which action should you perform before you leave the customer's site?

- A. Advise the customer to buy Cisco switches because NetApp supports only Cisco switches for CIFS and NFS.
- B. Review the ONTAP network configuration with the customer and make sure that it is correct.
- C. Connect to the customer's switch infrastructure and reset the port configurations.

D. Advise the customer to solve the issue on their own, this is not part of a basic installation.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 14

What are two ways to obtain customer licenses for a new ONTAP system? (Choose two.)

- A. Access the NetApp Support site.
- B. Open a support ticket.
- C. Access the Field Portal site.
- D. Access NetApp Knowledge Base.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 15

You were dispatched to add a DS224C to an existing HA pair that has a stack of DS4243 shelves with 1 TB drives and a stack of DS4246 shelves with 1 TB drives. The customer wants to make sure that ACP is cabled for all shelves.

Which two considerations should you advise the customer in this situation? (Choose two.)

- A. ACP communication uses SAS cables and does not require Ethernet cables for IOM12 and IOM6 modules.
- B. ACP communication cannot be used for the DS224C and the DS4243 shelves at the same time.
- C. Out-of-band ACP communication is use by default in ONTAP 9.0 and later software.
- D. The ACP communication has been discontinued beginning with ONTAP 9.1, IOM6, and IOM12 modules.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

You install a new AFF A300 2-node switchless cluster with ONTAP 9.1 at a customer site. Each node has a root aggregate as part of the system configuration.

In this scenario, what is the default disk partitioning called?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

You are configuring a new system with ONTAP 9.1. You created interface groups, VLANs, and a broadcast domain for the new ports on all the nodes of your cluster. During the configuration, you used an MTU value of 1500 for the broadcast domain and 9000 for the physical ports. The customer asks you to enable jumbo frames.

What should you do in this scenario?

- A. Set the MTU option to jumbo frames on the broadcast domain.
- B. Change the MTU value to 9000 on the ifgroup.
- C. Set the MTU option to jumbo frames on the ifgroup.
- D. Change the MTU value to 9000 on the broadcast domain.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

Which two default broadcast domains does the system create during cluster initialization? (Choose two.)

- A. Default
- B. Cluster
- C. Management
- D. Node

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://library.netapp.com/ecmdocs/ECMP1636021/html/GUID-CB9BD2E2-D085-446E-8EB2-6BF609E42ABA.html>

#### **QUESTION 19**

What is the minimum number of iSCSI LIFs per node in ONTAP 9.1?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 20**

Select the Exhibit tab.



```
cluster::> net int show -fields vserver, data-protocol, lif, role
(network interface show)
vserver  life      role  data protocol
-----  -
CIFS     cifs_lif1    data   cifs
Cluster  cluster1-01_clus1 cluster none
Cluster  cluster1-01_clus2 cluster none
Cluster  cluster1-02_clus1 cluster none
Cluster  cluster1-02_clus2 cluster none
cluster1 cluster1-01_mgmt1 node-mgmt none
cluster1 cluster1-02_mgmt1 node-mgmt none
cluster1 cluster_mgmt cluster-mgmt none
iSCSI    lif1_iscsi   data   iscsi
9 entries were displayed
```

Referring to the exhibit, a customer wants to migrate LIF `lif1_iscsi` to node `cluster1-02` port `e0d`, but they receive an error.

What is the cause of this error?



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- A. The LIF is not properly configured.
- B. The designation port is not available.
- C. This type of LIF cannot be migrated.
- D. The LIF does not have a failover group.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

A customer ordered two new DS224C shelves. The customer wants you to add these shelves to an existing stack which consists of two DS2246 shelves.

Which statement is true in this scenario?

- A. You need to order additional cables to expand the existing stack.
- B. Mixing DS224C and DS2246 shelves in the same node are not supported.
- C. You cannot mix DS224C and DS2246 shelves in the same stack.
- D. DS224C shelves are supports with only new HBAs.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 22**

A customer buys a new switchless ONTAP 9.1 FAS2650 cluster. You are asked to install the system at the customer's site.

Which three steps are needed to accomplish this task? (Choose three.)

- A. Cable the ACP.
- B. Cable the cluster-interconnect to the CN1610 switches.
- C. Connect both power cords.
- D. Install the system in the rack.
- E. Cable the controller for switchless ONTAP software.

**Correct Answer: CDE**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

You are asked to install a new ONTAP cluster at a customer site.

In this scenario, which ONTAP versions would you normally install? (Choose two.)

- A. the latest RC1 with the included patch level
- B. the latest GA with the included patch level
- C. the release specified by the customer
- D. the latest D release listed for the controller type

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

You are preparing to install a new cluster at a customer site.

Which two concerns must you address with the customer in this scenario? (Choose two.)

- A. Is there an uninterruptible power supply (UPS) system?
- B. Is there enough rack space available?
- C. Are the power requirements fulfilled?
- D. Is there a fire extinguishing system?

**Correct Answer:** AD

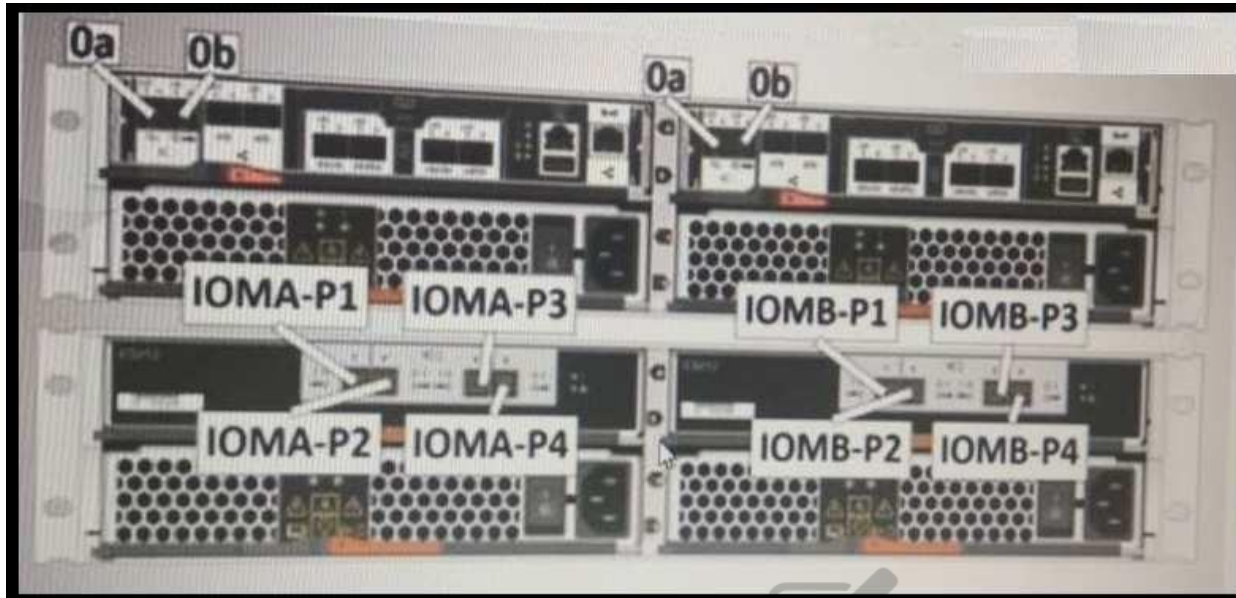
**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

Select the Exhibit tab.



You install a new FAS2650 HA with a DS224C disk shelf and ONTAP 9.1 on a customer site.

Referring to the exhibit, which two statements describe what is required to get an HA cabled system? (Choose two.)

- A. Insert a cable from left controller port 0a to IOMA port 2, and from port 0b to IOMB port 4, then cable the out-of-band ACP.
- B. Insert a cable from right controller port 0a to IOMB port 2, and from port 0b to IOMA port 4, then cable the out-of-band ACP.
- C. Insert a cable from left controller port 0a to IOMB port 1, and from port 0b to IOMA port 3.
- D. Insert a cable from right controller port 0a to IOMA port 1, and from port 0b to IOMB port 3.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 26

Recently, your 2-node FAS8020 cluster was upgraded from ONTAP 8.3 to ONTAP 9.1. You have just added two FAS8060 nodes to the cluster. You have executed Config Advisor to verify your work. Config Advisor tells you that the cluster ports on the original two FAS8020 nodes have Flow Control set to FULL.



In this scenario, to what should the Flow Control setting on the FAS8020 ports be set?

- A. Flow Control should be set to SEND.
- B. Flow Control should be set to ALL.
- C. Flow Control should be set to RECEIVE.
- D. Flow Control should be set to NONE.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 27

You have a 4-node FAS8060 cluster. You are using the `vol move` command to relocate a volume from an aggregate on node 1 to an aggregate on node 4.

In this scenario, which network is used for the traffic being relocated?

- A. the node management network
- B. the HA interconnect
- C. the intercluster network
- D. the cluster interconnect

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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