

# NS0-180 - NetApp Certified Storage Installation Engineer, Clustered Data ONTAP

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1. Which three types of interface groups are supported on NetApp storage systems? (Choose three.)

- A. single mode
- B. HA interconnect
- C. IPspaces
- D. static multimode
- E. dynamic multimode

**Answer:** A,D,E

Explanation:

You can create three different types of interface groups on your storage system: single-mode, static multimode, and dynamic multimode interface groups. Reference: Types of interface groups

<https://library.netapp.com/ecmdocs/ECMP1196907/html/GUID-EFA72201-E035-41E2-AC53-CD81A472B5ED.html>

2. A customer is using a Cisco Nexus 5020 as a cluster network switch.

What would be used as a management network switch in this scenario?

- A. Cisco Nexus 5020 1GbE ports
- B. Cisco Nexus 5020 Expansion Module
- C. Cisco Catalyst 2960
- D. Cisco Catalyst 5000

**Answer:** C

Explanation:

The Cisco Catalyst 2960 switch can be installed as management switch in a NetApp system cabinet.

Reference:

Clustered Switch Setup Guide for Cisco Switches, page 5

[https://library.netapp.com/ecm/ecm\\_get\\_file/ECMP1115327](https://library.netapp.com/ecm/ecm_get_file/ECMP1115327)

3. You are assigned to install two DS2246 shelves, three DS4243 shelves, and one DS4486 shelf. How many rack units (U space) should you account for in this rack layout?

- A. 6U
- B. 20U
- C. 10U
- D. 22U

**Answer: B**

Explanation:

DS2246 rack units: 2U (Here: 2\*2 -> 4U) DS4243 rack units: 4U (Here: 3\*4 -> 12U)

DS4286 rack units: 4U (Here: 1\*4 -> 4U)

Total: 20U (4+12+4)

Reference: NetApp Disk Shelves and Storage Media Technical Specifications

<http://www.netapp.com/se/products/storage-systems/disk-shelves-and-storage-media/disk-shelves-tech-specs.aspx>

4. What network information is required to set up any Cisco switches attached to a clustered Data ONTAP system? (Choose two.)
- A. All management ports configured for e0d or the service port (wrench icon) are required.
  - B. VLAN tags for each interface are required.
  - C. Host names and IP addresses for each of the controllers and configured switches are required.
  - D. The appropriate number and type of cables and cable connectors for your switches are required.

**Answer: C,D**

Explanation:

C: You need the following network information for all switch configurations: \*Two or more IP subnet addresses for cluster network and management network traffic Host names and IP addresses for each of the controllers and all applicable switches Management network port assignments for your controller

D: To configure your cluster, you need the appropriate number and type of cables and cable connectors for your switches. Depending on the type of switch you are initially configuring, you need to connect to the switch console port with the included console cable.

Reference: Clustered Switch Setup Guide for Cisco Switches, page 8

[https://library.netapp.com/ecm/ecm\\_download\\_file/ECMP1115327](https://library.netapp.com/ecm/ecm_download_file/ECMP1115327)

5. According to NetApp best practices, which two sets of protocols would be assigned to the same storage virtual machine (SVM)? (Choose two.)

- A. FCP, NFS
- B. CIFS, iSCSI
- C. NFS, CIFS
- D. FCP, iSCSI

**Answer: C**

Explanation:

For Storage Virtual Machines (SVMs) that are accessible from multiple protocols, such as CIFS and NFS, you can use DNS load balancing and automatic LIF rebalancing simultaneously.

Reference: Clustered Data ONTAP 8.3, Network Management Guide, page 96

6. Which NetApp tool will simplify your initial system installation?

- A. OnCommand Unified Manager
- B. OnCommand System Manager
- C. Config Advisor
- D. System Setup tool

**Answer: D**

Explanation:

The System Setup tool enables you to quickly and easily set up your netapp FAS series storage systems using NetApp best practices and optimizing performance for Clustered. You can use this software to configure your network, storage, and protocols with either a single storage controller or multiple controllers. Incorrect: Not A: OnCommand Unified Manager is used for to monitor the health of your clustered Data ONTAP environment. Not B: The System Setup tool is for the initial configuration, while OnCommand System Manager is for later configuration. The OnCommand System Manager provides fast, simple configuration and management for NetApp FAS storage systems. Not C: Config Advisor is run on already installed systems. It performs configuration validation for new NetApp system installation and improve automation for service delivery for assessments and audits.

Reference:[http://mysupport.netapp.com/NOW/public/system\\_setup/](http://mysupport.netapp.com/NOW/public/system_setup/)

7. You will be performing a new cluster Data ONTAP 8.3 or later installation.

Which three tools would you download to facilitate this task? (Choose three.)

- A. Config Advisor
- B. Cluster Config Builder
- C. OnCommand System Manager
- D. System Setup tool
- E. SLDIAG tool

**Answer:** A,C,D

Explanation:

D: After installing the hardware, you should use System Setup whenever possible to set up the cluster.

C: After setting up the cluster, you can use either OnCommand System Manager or the Data ONTAP CLI to continue configuring the cluster.

A: You can go to the NetApp Support Site and download the Config Advisor tool to check

for common configuration errors. Reference:

Clustered Data ONTAP 8.3, Software Setup Guide, page 4, page 22

Reference: Clustered Data ONTAP 8.3, MetroCluster Installation and Configuration Guide, page 137

8. A remote administrator is connecting to a cluster from a different remote network.

According to NetApp best practices, which type of LIF routing is required to accomplish this task?

- A. cluster LIF
- B. data LIF
- C. cluster management LIF
- D. intercluster LIF

**Answer:** B

Explanation:

Data ONTAP services may initiate network connections from a node in the cluster. For example: AutoSupport, SNMP, time synchronization, and syslog. When a Node Management interface is configured and available, it is preferred for these connections. When Data ONTAP contacts name services like Active Directory, NIS, DNS, or LDAP, it prefers to initiate these connections from Data or SVM Management interfaces belonging to the Storage Virtual Machine (SVM). Note: A LIF role determines the kind of traffic that is supported over the LIF, along with the failover rules that apply and the firewall restrictions that are in place. The five LIF roles are: Cluster-management LIF Node-management LIF Cluster LIF Data LIF Intercluster LIF

Reference: What LIF roles does clustered Data ONTAP use to establish connections to remote servers?

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