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NS0-173

Cisco and NetApp FlexPod Design Specialist



## Exam A

**QUESTION 1** Your customer has a FlexPod configuration with a 4-node NetApp AFF A300 storage cluster that uses only NSE drives.

Which two solutions allow the customer to expand the current storage system? (Choose two.)

- A. a two-node AFF A200 with a 3.8 TB NSE SSD
- B. a DS224C with twenty-four 3.8 TB SSDs
- C. a DS4246 with twenty-four 6 TB NL-SAS HDDs
- D. a two-node FAS8200 with a 4 TB NL-SAS HDD

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 2

A customer wants to deploy a FlexPod solution that involves directly connecting the NetApp AFF storage using the FCoE protocol to the Cisco UCS Fabric Interconnects.

In this scenario, which Cisco UCS Fibre Channel mode would be used to accomplish this task?

- A. trunk mode
- B. end host mode
- C. switching mode
- D. access mode

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/media/16411-nva-0025-deploy.pdf>

## QUESTION 3

The storage administrator must change the vHBA settings bound to a template associated with a production server.

What happens when the settings are reconfigured in this scenario?

- A. The vHBA configuration change does not affect LUN access.
- B. The server that is associated with the service profile reboots.
- C. The service profile template that is associated with the server is initialized.
- D. The vHBA template is deleted from UCS Manager.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 4

A customer has installed FlexPod and verified that all wiring connections are correct. However, the customer cannot see any FC LUNs from the NetApp AFF systems.

In this scenario, which three configuration elements should the customer verify? (Choose three.)

- A. FC zoning
- B. igroup configuration

- C. ALUA settings
- D. FC portsets
- E. MTU configuration

**Correct Answer:** BDE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

You are a data center architect at a service provider. You need to configure a new multi-tenant FlexPod service offering.

Which three UCS Manager features will you need to accomplish this task? (Choose three.)

- A. auto discovery
- B. role-based access control
- C. service profiles
- D. virtualization support
- E. policies

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 6** Your customer has a FlexPod solution with a 2-node switchless ONTAP system, Cisco Nexus 93108 switches, and Cisco UCS B-Series servers. The customer wants to expand to a 4-node ONTAP storage cluster.

Which configuration is valid for expansion?

- A. Use the existing Nexus 93108 switches for the cluster interconnect.
- B. Add two Nexus 3232C switches for the cluster interconnect.
- C. Add two Nexus 93108 switches for the cluster interconnect.
- D. Add one Nexus 3232C switch for the cluster interconnect.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 7

A customer is designing a FlexPod solution with VMware 6.x in a SAN boot environment using FCoE. The customer has predetermined the WWPN values for the NetApp LIFs and the UCS vHBAs. The customer is now working on the design workflow for the SAN boot process.

In this scenario, which three FlexPod environment objects are required for SAN connectivity? (Choose three.)

- A. NetApp export policies
- B. UCS boot policies
- C. UCS IQN pools
- D. initiator groups
- E. FC zones

**Correct Answer:** ABC

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

A customer is evaluating management tools for a new FlexPod infrastructure. They desire a tool that can orchestrate the provisioning of UCS compute nodes, NetApp storage, and VMware networking.

Which tool satisfies the requirements of this customer's heterogeneous environment?

- A. UCS Central
- B. NetApp OnCommand Unified Manager
- C. NetApp OnCommand Insight
- D. UCS Director

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

An administrator decides to connect storage directly to UCS Fabric Interconnect to support FCoE within a FlexPod configuration.

In this scenario, which port type should be defined on the Fabric Interconnect ports that are connected to the storage controller?

- A. monitor port
- B. appliance port
- C. uplink port
- D. server port



**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

A customer has deployed a FlexPod Datacenter with Red Hat Enterprise Linux OpenStack Platform. The Cinder storage volumes that are attached to the Nova instances are not available.

Based on the terms of the cooperative support model, which three companies would the customer use to open a support case? (Choose three.)

- A. Cisco
- B. VMware
- C. Microsoft
- D. NetApp
- E. Red Hat

**Correct Answer: ADE**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/UCS\\_CVDs/flexpod\\_openstack\\_osp6\\_design.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/UCS_CVDs/flexpod_openstack_osp6_design.html)

**QUESTION 11**

Your customer has a FlexPod implementation and wants to use life-cycle management to validate, monitor, and optimize the FlexPod infrastructure.

In this situation, which management tool should your customer use?

- A. NetApp OnCommand Unified Manager
- B. NetApp Converged System Advisor
- C. Cisco UCS Manager
- D. Cisco UCS Director

**Correct Answer:** D

**Section:** (none)

**Explanation**

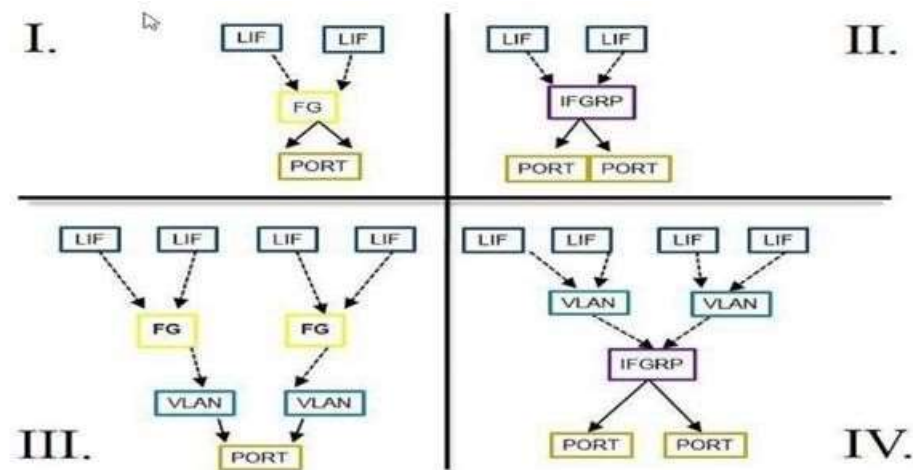
**Explanation/Reference:**

Explanation:

Cisco UCS Director can be an integral companion for FlexPod because it allows holistic management through centralized automation and orchestration from a single, unified view. When FlexPod and Cisco UCS Director are combined, IT can shift time and focus from managing infrastructure to delivering new service innovation. Used together, FlexPod and Cisco UCS Director deliver: Reference: <https://www.netapp.com/media/16859-tr-3884.pdf>

#### QUESTION 12

Click the Exhibit button.



A customer wants to ensure that FlexPod Datacenter connections to the storage layer are highly available. Which

two configurations shown in the exhibit satisfy the customer's requirements? (Choose two.)

- A. I.
- B. II.
- C. III.
- D. IV

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 13

A customer has a FlexPod Express configuration with a FAS2720 system. The company has opened a new remote location and will purchase a FlexPod Express configuration with a FAS2750 system. The business requires that the data be replicated to the new location.

Which two software applications accomplish this task? (Choose two.)

- A. SnapVault
- B. SnapRestore

- C. SnapMirror
- D. FlexCache

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

- FlexClone®: Instant virtual copies with file and volume granularity
- SnapMirror®: Integrated data replication technology for simple, efficient, flexible disaster recovery and backup use cases

Reference: <https://www.inneo.ch/files/content/Informationstechnologien/Storage-Server-Netzwerk/datenblatt-netapp-fas-2700-storage.pdf>

#### QUESTION 14

A customer wants to design a FlexPod configuration based on a CVD that was published 10 months ago. The customer wants to ensure that they are using the latest hardware and software versions.

In this scenario, which two tools are used to identify the latest supported hardware and software? (Choose two.)

- A. NetApp Interoperability Matrix Tool
- B. NetApp OnCommand System Manager
- C. Cisco UCS Hardware and Software Interoperability Matrix
- D. Cisco UCS Director

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

C: When using this matrix to determine recommended driver versions for your server configuration, please reference the server's Blade/Rack Bundle firmware version for the recommended driver in the event that your servers are running Mixed Firmware from your Infrastructure Bundle.

D: Cisco UCS Director delivers unified, highly secure management for supported compute, network, storage, and virtualization platforms and for the industry's leading converged infrastructure solutions

Reference: <https://ucshcltool.cloudapps.cisco.com/public/#>

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-director/release-notes/6-7/cisco-ucs-director-release-notes-67.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-director/release-notes/6-7/cisco-ucs-director-release-notes-67.html)

**QUESTION 15** You are designing a FlexPod solution that requires 32 ports running at 40 Gbps.

To satisfy this requirement, which Cisco Fabric Interconnect should you deploy?

- A. 6332-16UP
- B. 6332
- C. 6248UP
- D. 6296UP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

FI 6332 is a one-rack-unit (1RU) 40 Gigabit Ethernet, and FCoE switch offering up to 2.56 Tbps throughput and up to 32 ports. The switch has 32 40Gbps fixed Ethernet. Reference:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/UCS\\_CVDs/flexpod\\_esxi60u2\\_fc\\_design.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/UCS_CVDs/flexpod_esxi60u2_fc_design.html)

#### QUESTION 16

You are configuring high availability within the network layer of your FlexPod configuration.

In this scenario, what are two Cisco best practices for designing vPC on your Cisco 9000 Series switches? (Choose two.)

- A. Peer keep-alive connectivity between the switches should be established.
- B. A minimum of four 10GB Ethernet connections are required for vPC.
- C. The vPC auto-recovery feature should be enabled.
- D. Port channels should be configured for LACP passive mode.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

vPC also relies on the periodic **keepalive messages** to determine when one of the connected devices on the peer link fails. vPC peer link – The link used to synchronize states between the vPC peer devices. Both ends must be on **10-Gigabit Ethernet or 40-Gigabit Ethernet interfaces**.

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/interfaces/configuration/guide/b\\_Cisco\\_Nexus\\_9000\\_Series\\_NX-OS\\_Interfaces\\_Configuration\\_Guide\\_chapter\\_0111.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/interfaces/configuration/guide/b_Cisco_Nexus_9000_Series_NX-OS_Interfaces_Configuration_Guide_chapter_0111.html)

#### QUESTION 17

A customer is designing a FlexPod Datacenter with Cisco UCS C-Series servers. They intend to manage the solution with Cisco UCS Manager. They want to cable the servers to the Cisco UCS Fabric Interconnects.

In this scenario, which three configurations are supported? (Choose three.)

- A. Cluster mode
- B. Direct Connect mode
- C. SingleConnect mode
- D. DualWire Management mode
- E. Multipath mode

**Correct Answer:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

- **Dual-wire Management (Shared LOM):** Shared LAN on Motherboard (LOM) ports on the rack server are used exclusively for carrying management traffic. A separate cable connected to one of the ports on the PCIe card carries the data traffic. Using two separate cables for managing data traffic and management traffic is also referred to as dual-wire management.
- **SingleConnect (Sideband):** Using Network Controller Sideband Interface (NC-SI), the Cisco VIC card connects one cable that can carry both data traffic and management traffic. This feature is referred to as SingleConnect.
- **Direct Connect Mode:** Cisco UCS Manager supports an option to connect the Cisco UCS C-Series Rack-Mount Server directly to the FIs. This option enables Cisco UCS Manager to manage the Cisco UCS C-Series Rack-Mount Servers using a single cable for both management traffic and data traffic. The Cisco UCS VIC connects to the FI of the system. This connection uses a single connection from each VIC to each FI.

Reference:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/c-series\\_integration/ucsm4-0/b\\_C-Series-Integration\\_UCSM4-0/b\\_C-Series-Integration\\_UCSM4-0\\_chapter\\_01.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/c-series_integration/ucsm4-0/b_C-Series-Integration_UCSM4-0/b_C-Series-Integration_UCSM4-0_chapter_01.html)

#### QUESTION 18

A customer is using a FlexPod implementation that has 10 Gbps uplinks from the B-Series chassis to the fabric interconnect. The customer wants to upgrade the links to 40 Gbps.

In this scenario, which model of Cisco UCS server IOM is required?

- A. 2204XP.
- B. 2208XP
- C. 2232
- D. 2304

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

The Cisco UCS 2204XP Fabric Extender (Figure 7) has four 10 Gigabit Ethernet, FCoE-capable, SFP+ ports that connect the blade chassis to the fabric interconnect.

Reference: [https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/spec\\_sheet\\_c17-644224.pdf](https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/spec_sheet_c17-644224.pdf)

**QUESTION 19** Your customer wants assurances that all aspects of FlexPod are highly available.

Which statement is correct in this scenario?

- A. Cisco UCS Manager contains multiple UCS domains.
- B. Cisco UCS Manager automatically copies its configuration data to a remote data store.
- C. Cisco UCS Manager uses active-active architecture.
- D. Cisco UCS Manager maintains a replica of configuration information.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

The management and data plane of Cisco UCS is designed for high availability and redundant access layer fabric interconnects. In addition, Cisco UCS supports existing high availability and disaster recovery solutions for the data center, such as data replication and application-level clustering technologies.

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-manager/GUI-User-Guides/Infrastructure-Mgmt/3-1/b\\_UCSM\\_GUI\\_Infrastructure\\_Management\\_Guide\\_3\\_1/b\\_UCSM\\_GUI\\_Infrastructure\\_Management\\_Guide\\_3\\_1\\_chapter\\_0110.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Infrastructure-Mgmt/3-1/b_UCSM_GUI_Infrastructure_Management_Guide_3_1/b_UCSM_GUI_Infrastructure_Management_Guide_3_1_chapter_0110.html)

**QUESTION 20**

A customer has several existing standalone Cisco UCS C-Series servers that they would like to repurpose and add to their FlexPod Datacenter solution.

Which action should the customer perform on these servers before using UCS Manager?

- A. Zero-out the FlexFlash cards on each server.
- B. Reboot the CIMC on each server.
- C. Remove the hard disks on each server.
- D. Reset the CIMC to the factory settings on each server.



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

On rare occasions, such as an issue with the current running firmware, troubleshooting a server may require you to reset the CIMC to the factory default. When this happens, all user-configurable settings are reset. This procedure is not part of the normal server maintenance. After you reset the CIMC, you are logged off and must log in again. You may also lose connectivity and may need to reconfigure the network settings.

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/c/sw/cli/config/guide/1-0\\_1x/b\\_Cisco\\_CIMC\\_C250\\_CLI\\_Configuration\\_Guide/Cisco\\_CIMC\\_C250\\_CLI\\_Configuration\\_Guide\\_chapter13.pdf](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/c/sw/cli/config/guide/1-0_1x/b_Cisco_CIMC_C250_CLI_Configuration_Guide/Cisco_CIMC_C250_CLI_Configuration_Guide_chapter13.pdf)

**QUESTION 21**

You are designing a FlexPod solution with a 2-node storage system, multiple compute chassis, and ACI.

In this scenario, which two network switches are required? (Choose two.)

- A. leaf switch
- B. core switch
- C. cluster interconnect switch
- D. spine switch

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c11-737909.html>



**QUESTION 22**

Which two Unified Computing System capabilities are required to achieve stateless computing? (Choose two.)

- A. templates
- B. blade servers
- C. service profiles
- D. boot from SAN

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Cisco introduced the idea of stateless computing with its blade server design.

A Cisco UCS instance allows you to quickly align computing resources in the data center with rapidly changing business requirements. This built-in flexibility is determined by whether you choose to fully implement the stateless computing feature. Pools of servers and other system resources can be applied as necessary to respond to workload fluctuations, support new applications, scale existing software and business services, and accommodate both scheduled and unscheduled downtime. Server identity can be abstracted into a mobile service profile that can be moved from server to server with minimal downtime and no need for additional network configuration.

Reference: [https://subscription.packtpub.com/book/networking\\_and\\_servers/9781782170662/1/ch01lv1sec07/looking-at-the-ucs-equipment](https://subscription.packtpub.com/book/networking_and_servers/9781782170662/1/ch01lv1sec07/looking-at-the-ucs-equipment) <https://mg.mail.yahoo.com/neo/launch?.rand=c56dardsgif3d>

**QUESTION 23**

A FlexPod solution has been configured for iSCSI SAN boot with multiple paths between the server and the storage. In

this scenario, how many initiators (IQNs) per server will need to be added in the corresponding igroup in ONTAP?

- A. three
- B. one
- C. four
- D. two



**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

The initiator group REST API allows you to create, update, delete, and discover initiator groups, and add and remove initiators that can access the target and associated LUNs. Reference:

<https://library.netapp.com/ecmdocs/ECMLP2858435/html/resources/igroup.html>

**QUESTION 24**

A customer is investigating options for implementing a FlexPod Datacenter solution that is using vSphere 6.x.

In this scenario, which two resources would be important to review? (Choose two.)

- A. Cisco Cloud Center documentation
- B. Cisco Validated Design documents
- C. VMware vSAN documentation
- D. NetApp Technical Report

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/UCS\\_CVDs/flexpod\\_esxi60\\_n9k.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/UCS_CVDs/flexpod_esxi60_n9k.html)

**QUESTION 25** A customer wants to extend a Layer 2 network over a Layer 3 Nexus 9000 infrastructure.

Which Layer 2 overlay scheme accomplishes this task?

- A. STP
- B. vPC
- C. VXLAN
- D. EIGRP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

VXLAN tunnels the Layer 2 network over the Layer 3.

Reference: <https://www.ciscopress.com/articles/article.asp?p=2999385&seqNum=3>

#### QUESTION 26

Which command would a FlexPod administrator use to determine whether an FC initiator has logged on to the fabric?

- A. MDS9148>show fcfwd
- B. MDS9148>show fcdomain
- C. MDS9148>show fcc
- D. MDS9148>show flogi database

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2017/pdf/BRKDCN-1121.pdf>



#### QUESTION 27

A customer wants to deploy a performance-sensitive workload while leveraging NetApp Snapshot technology and technologies such as NAS and SAN.

Which architecture satisfies these requirements?

- A. NetApp StorageGRID
- B. NetApp SolidFire
- C. NetApp EF-Series
- D. NetApp AFF

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/media/10608-tr-4636.pdf>

#### QUESTION 28

A customer with a FlexPod Datacenter design that uses a 4-node FAS8200 for storage wants to add a new workload that requires high performance. The customer needs to nondisruptively move some workloads from the existing FAS system to the new storage.

Which storage system would satisfy the requirements?

- A. FAS2700
- B. AFF A300
- C. EF570
- D. E2700

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/pdf.html?item=/media/16341-tr-4637pdf.pdf>

#### QUESTION 29

You are asked to design a FlexPod solution with a Cisco UCS B-Series chassis. There is no requirement for any Cisco UCS C-Series rack servers. You must ensure that there is a minimum of a 2500 VLAN or VSAN capacity per UCS domain.

In this scenario, which Cisco Fabric Interconnects do you select?

- A. 6332
- B. 6248
- C. 6296
- D. 6324

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-manager/CLI-User-Guides/Storage-Mgmt/3-2/b\\_CLI\\_UCSM\\_Storage\\_Management\\_Guide\\_3\\_2.pdf](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/CLI-User-Guides/Storage-Mgmt/3-2/b_CLI_UCSM_Storage_Management_Guide_3_2.pdf)

#### QUESTION 30

A client has a requirement to set up a FlexPod Datacenter with the NetApp fabric MetroCluster architecture. You want to enable connectivity between the deployments.

In this design, which two components are required to accomplish this task? (Choose two.)

- A. Cisco Nexus 7000 switches
- B. Cisco Nexus 3000 switches
- C. Cisco MDS 9300 switches
- D. Cisco Nexus 9000 switches



**Correct Answer:** AD

**Section:** (none)

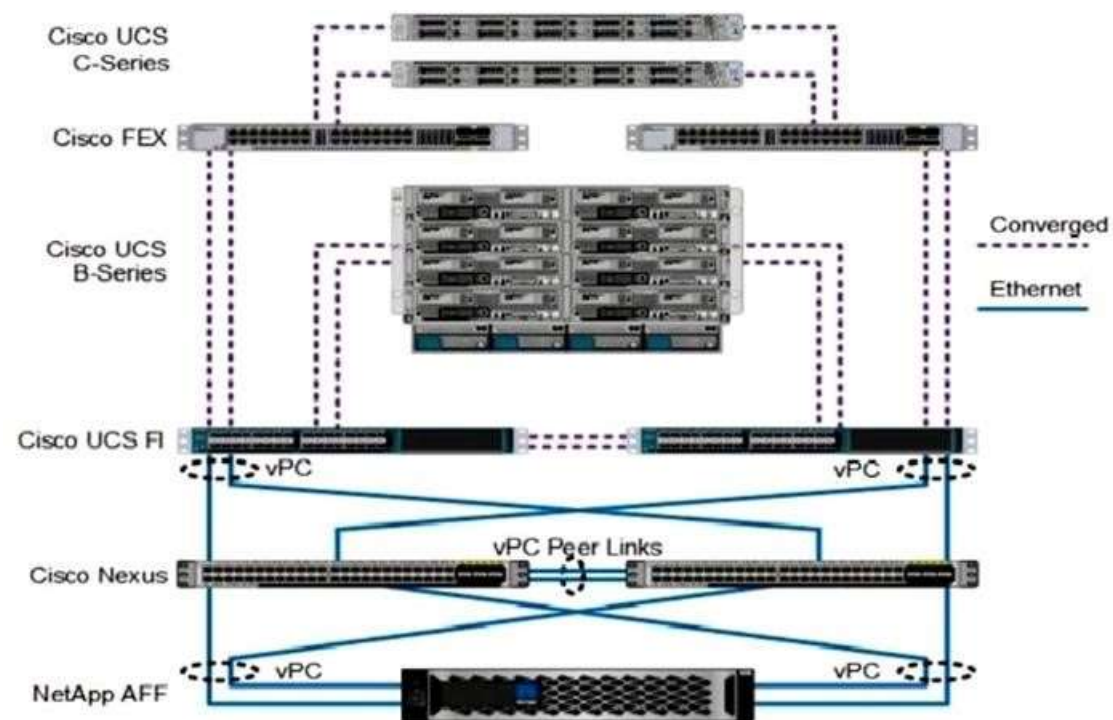
**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/media/12434-nva-0030-design.pdf>

#### QUESTION 31

Click the Exhibit button.



You are designing a FlexPod Datacenter solution for Microsoft Windows 2012 with Hyper-V. All hosts will boot from the SAN, including management hosts. The management hosts are Cisco C-Series servers.

Referring to the exhibit, which adapters are required to boot the management servers from the SAN?

- A. two 1GbE NICs
- B. two 10GbE CNAs
- C. two 10GbE NICs
- D. two 8Gb HBAs



**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 32

An architect is designing a FlexPod environment with Cisco Nexus 5000 switches to SAN boot all of the ESXi hosts over FC.

In this scenario, what should the LUN ID number be?

- A. LUN 2
- B. LUN 3
- C. LUN 0
- D. LUN 1

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/UCS\\_CVDs/flexpod\\_50\\_M3.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/UCS_CVDs/flexpod_50_M3.html)

### QUESTION 33

You want to deploy a FlexPod Datacenter solution based on the minimum hardware requirements.

Which three components must be deployed in highly available pairs to accomplish this task? (Choose three.)

- A. Cisco USC Nexus Switches
- B. Cisco UCS 5108 Chassis
- C. NetApp FAS Storage Controllers
- D. Cisco APICs
- E. Cisco UCS Fabric Interconnects

**Correct Answer:** BCE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34** A customer wants to deploy FlexPod for a VDI solution with 10,000 users, each with 10 GB of storage allocated.

To support this configuration, which three components must be sized? (Choose three.)

- A. the NetApp AFF storage
- B. the fabric interconnect ports
- C. the 1GbE ports from user systems
- D. the Cisco UCS servers
- E. the optical cable length

**Correct Answer:** BCD

**Section:** (none)

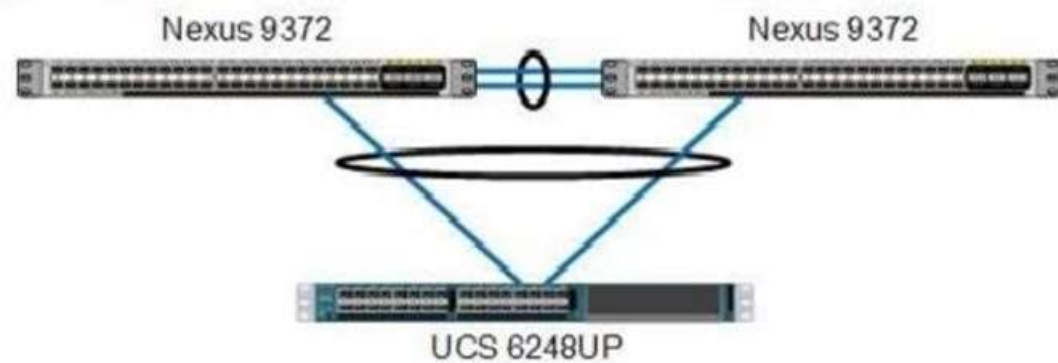
**Explanation**

**Explanation/Reference:**



**QUESTION 35**

Click the Exhibit button.



Referring to the exhibit, what is the name given to the link between the two Cisco Nexus switches?

- A. vPC Domain ID
- B. vPC peer domain
- C. vPC peer link
- D. vPC peer connection

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/layer2/503\\_n2\\_1/503\\_n2\\_1nw/Cisco\\_n5k\\_layer2\\_config\\_gd\\_rel\\_503\\_N2\\_1\\_chapter8.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/layer2/503_n2_1/503_n2_1nw/Cisco_n5k_layer2_config_gd_rel_503_N2_1_chapter8.html)

**QUESTION 36**

A customer is designing a FlexPod solution to use both NFS and iSCSI for connectivity, including traditional FC for legacy applications. The Cisco UCS Fabric Interconnects will be connected to both Nexus 9000 Series switches and FC switches.

Which UCS capability allows you to accomplish this task?

- A. FC uplink ports
- B. VSANs
- C. unified ports
- D. SAN pin groups

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

A customer wants to configure SAN boot for its FlexPod system. The customer must consider the minimum number of FC ports to be configured on each node in the ONTAP storage solution.

In this scenario, what is the minimum number of FC ports that should be configured per storage node?

- A. two
- B. one
- C. three
- D. four

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/media/12424-tr4036.pdf> (11)

**QUESTION 38**

A customer recently configured its Cisco UCS, and within the Chassis Discovery policy, they set the link group preference to Port Channel.

Which two benefits would they derive from this link group preference? (Choose two.)

- A. All the links between the Cisco Fabric Interconnects and chassis IOM are shared.
- B. Each blade has an assigned Cisco Fabric Interconnects link.
- C. All the links between the Cisco Fabric Interconnects and chassis IOM are pinned.
- D. Traffic is load balanced across the links.

**Correct Answer:** AD

**Section:** (none)

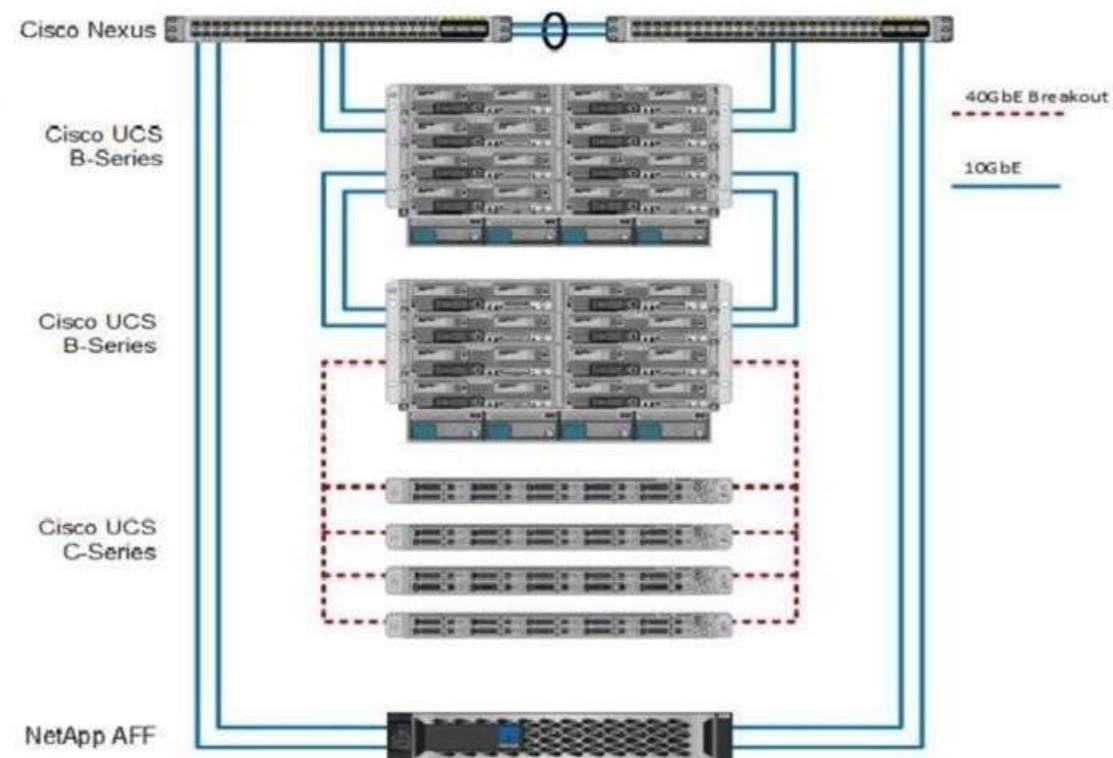
**Explanation**

**Explanation/Reference:**

**QUESTION 39**

Click the Exhibit button.





The total number of servers that a Cisco UCS Mini chassis supports is set to a maximum of how many hosts as shown in the exhibit?

- A. 22
- B. 12
- C. 20
- D. 8



**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 40

A service provider is designing a FlexPod configuration to host multiple customers in a hybrid cloud environment, where IP address-range conflicts might arise on the shared storage.

Which NetApp feature should be enabled to prevent these conflicts?

- A. SVMs
- B. broadcast domains
- C. IPspaces
- D. failover groups

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 41

What are characteristics of the Cisco UCS 5108 blade chassis?



- A. 4 RU, 6 half-width UCS B-Series blades, 160 Gbps I/O bandwidth
- B. 6 RU, 8 half-width UCS B-series blades, 160 Gbps I/O bandwidth
- C. 6 RU, 6 half-width UCS B-series blades, 80 Gbps I/O bandwidth
- D. 4 RU, 8 half-width UCS B-series blades, 40 Gbps I/O bandwidth

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/spec\\_sheet\\_c17-644224.pdf](https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/spec_sheet_c17-644224.pdf)

**QUESTION 42** A customer is planning to deploy a FlexPod solution for a large scale SAN requirement that uses the FC protocol. The customer plans to use Smart Zoning in the configurations to reduce the number of TCAM entries in the zoning process.

In this scenario, which design would enable the customer to use Smart Zoning?

- A. storage connected to Cisco Nexus 9000 Series switches
- B. storage connected to Cisco Nexus 5000 Series switches
- C. storage connected to Cisco MDS switches
- D. storage directly connected to Cisco UCS Fabric Interconnects

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/UCS\\_CVDs/flexpod\\_datacenter\\_vmware\\_netappaffa\\_design.html#\\_Toc23952741](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/UCS_CVDs/flexpod_datacenter_vmware_netappaffa_design.html#_Toc23952741)

**QUESTION 43**

A client has a FlexPod Datacenter solution with four active fabric links in port channel mode established between the Cisco Fabric Interconnects and the IOMs on a Cisco 5108 blade chassis. The blade chassis is fully populated with Cisco UCS B200M5 blades. A worker in the data center inadvertently unplugs the fourth uplink cable from IOM-A while working in the rack.

In this scenario, what happens to the network traffic?

- A. Connectivity for servers 3, 4, 7, and 8 all fail over to IOM-B.
- B. There is a loss of connectivity for servers 4 and 8.
- C. Traffic is load-balanced within IOM-A.
- D. Traffic is load-balanced within IOM-B.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 44** A customer has verified physical connectivity on the FlexPod. However, the LUNs are not available on the Cisco UCS server. To make the LUNs visible to the UCS, the customer must enable a switching feature for zoning.

In this scenario, what should the customer do?

- A. Enable NPIV on all switches.
- B. Enable Spine mode on all the Cisco Nexus 9000 switches.
- C. Enable NPV on all switches.
- D. Enable the device connector feature in Cisco UCS Manager.

**Correct Answer:** D

**Section:** (none)



## Explanation

### Explanation/Reference:

**QUESTION 45** A customer has ordered a FlexPod Select solution with a NetApp EF570.

In this scenario, which three storage protocols are available for use? (Choose three.)

- A. InfiniBand
- B. CIFS
- C. iSCSI
- D. NFS
- E. FC

**Correct Answer:** BDE

**Section:** (none)

## Explanation

### Explanation/Reference:

**QUESTION 46** A customer is planning to use a pair of MDS switches in a FlexPod design to host a few SAN workloads.

In this scenario, which two features should be enabled on the MDS switches for a successful configuration? (Choose two.)

- A. NPIV
- B. NPV
- C. port-channel-trunk
- D. fport-channel-trunk



**Correct Answer:** AC

**Section:** (none)

## Explanation

### Explanation/Reference:

**QUESTION 47** You are asked to design a FlexPod solution that meets the minimum requirements and includes Application Centric Infrastructure (ACI).

Which three Cisco components are required in this scenario? (Choose three.)

- A. Cisco UCS B-Series servers
- B. Cisco Nexus 9000 Series switches
- C. Cisco Nexus 2000 Series Fabric Extender
- D. Cisco Nexus 3000 Series switches
- E. Cisco UCS Series Fabric Interconnects

**Correct Answer:** ABE

**Section:** (none)

## Explanation

### Explanation/Reference:

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/UCS\\_CVDs/flexpod\\_esxi55u2\\_n9k\\_aci\\_aff8040\\_design.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/UCS_CVDs/flexpod_esxi55u2_n9k_aci_aff8040_design.html)

## QUESTION 48

You are configuring Cisco UCS servers for FC SAN boot and want to perform zoning on your Cisco Nexus 5000 series switches.

In this scenario, which statement is correct?

- A. The corresponding FC ports on your NetApp storage array must be configured in LACP mode.
- B. An iSCSI license on the NetApp storage controller is required.
- C. SAN links are required between the Cisco Fabric Interconnects and the Nexus 5000 switches.
- D. FC zoning on the Nexus series switches is not supported; zoning can be done only on the Cisco Fabric Interconnects.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/sw/gui/config/guide/2-2/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_2\\_2/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_2\\_2\\_chapter\\_011011.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-2/b_UCSM_GUI_Configuration_Guide_2_2/b_UCSM_GUI_Configuration_Guide_2_2_chapter_011011.html)

#### QUESTION 49

Which Cisco Nexus series switch supports NX-OS standalone mode or Application Centric Infrastructure (ACI) fabric mode?

- A. Nexus 7000
- B. Nexus 3000
- C. Nexus 9000
- D. Nexus 5000

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/guide-c07-733228.html>

#### QUESTION 50

After you install a FlexPod infrastructure at a customer site, you need to migrate the existing VMware virtual machines off the infrastructure that was used before FlexPod was installed.

Which VMware vSphere feature accomplishes this task?

- A. vMotion
- B. vSphere DRS
- C. VM Component Protection
- D. vSphere HA

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 51

You are configuring a FlexPod system for NAS protocols. You want to ensure that there are multiple paths between the initiators and targets in the solution. Which

two steps will accomplish this task? (Choose two.)

- A. Allow the VLANs over the vPC peer link.
- B. Configure the VLANs in Cisco UCS Manager as Common/Global.
- C. Disable LACP.
- D. Configure the VSANs in the Cisco Nexus 5000 switches.

**Correct Answer:** BC

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 52** When FCoE is configured in a FlexPod environment, which step is required?

- A. Assign a VLAN to the FC Uplink port on the Cisco Fabric Interconnects.
- B. Create a VSAN within service profiles.
- C. Create a VSAN to support FCoE for the FC uplink.
- D. Assign a VSAN to the server uplink port on the Cisco Fabric Interconnects.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/UCS\\_CVDs/flexpod\\_esxi65u1\\_n9fc.html#\\_Toc24048288](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/UCS_CVDs/flexpod_esxi65u1_n9fc.html#_Toc24048288)

**QUESTION 53** A customer with a FlexPod Express solution wants to enable remote access to the NetApp storage component. In this scenario, which two access methods are recommended? (Choose two.)

- A. SAML
- B. SSH
- C. RDP
- D. Telnet

**Correct Answer: BD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

Two data centers are 75km apart. The customer wants to deploy a FlexPod solution in each data center to maintain high availability between the two sites with minimal possible data loss.

In this scenario, which technology would you use at the NetApp storage layer?

- A. MetroCluster
- B. SnapMirror
- C. SnapVault
- D. FlexArray

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/media/12434-nva-0030-design.pdf>

**QUESTION 55**

Click the Exhibit button.





You have designed a FlexPod Express solution that uses a NetApp ONTAP controller, Cisco UCS C-Series servers, and Cisco Nexus 3000 Series switches, as shown in the exhibit. Which three storage protocols are supported in this design? (Choose three.)

- A. SMB
- B. NFS
- C. iSCSI, FC
- E. FCoE

**Correct Answer:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/media/12441-nva-0016-flexpod-express.pdf> (21)

**QUESTION 56** Which port type would you configure when you connect a chassis to the Cisco Fabric Interconnects?

- A. Ethernet uplink ports
- B. FC storage ports
- C. server ports
- D. appliance ports

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/media/12424-tr4036.pdf> (16)

**QUESTION 57** A FlexPod administrator is building a WWN pool for a server that has 33 ports.

In this scenario, what is the smallest size possible for the pool?

- A. 33
- B. 34
- C. 68
- D. 66

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 58**

A customer with a FlexPod Express configuration is currently operating Linux servers. The company wants to move to a Windows-centralized access method for the NetApp storage component.

In this scenario, which two ONTAP features must be configured? (Choose two.)

- A. Active Directory security model
- B. SVM with the SMB protocol enabled
- C. Workgroup security model
- D. SVM with the NFS protocol enabled

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 59

Which two NetApp storage controllers would be used in a valid FlexPod Datacenter configuration? (Choose two.)

- A. NetApp FAS2700
- B. NetApp AFF A700
- C. NetApp E2800
- D. NetApp EF570

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.netapp.com/media/12424-tr4036.pdf>



#### QUESTION 60

A customer is configuring the UCS to handle a multitenant environment. The customer has created an organization within UCS for each tenant and would like to allow access to these organizations for only users that belong to that tenant.

In this scenario, which feature in UCS Manager should the customer use to accomplish this task?

- A. Locales
- B. Trusted Platform Module
- C. Service Profile
- D. User Roles

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-manager/GUI-User-Guides/Admin-Management/3-2/b\\_Cisco\\_UCS\\_Admin\\_Mgmt\\_Guide\\_3\\_2/b\\_Cisco\\_UCS\\_Admin\\_Mgmt\\_Guide\\_3\\_2\\_chapter\\_01010.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Admin-Management/3-2/b_Cisco_UCS_Admin_Mgmt_Guide_3_2/b_Cisco_UCS_Admin_Mgmt_Guide_3_2_chapter_01010.html)