

## 300-610<sup>Q&As</sup>

Designing Cisco Data Center Infrastructure (DCID)

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**QUESTION 1**

A company has several data centers around the world that must be interconnected over Layer2. The service provider supports MPLS services to all the locations. The proposed solution must be vendor agnostic and scalable enough to support the rapid growth of the company.

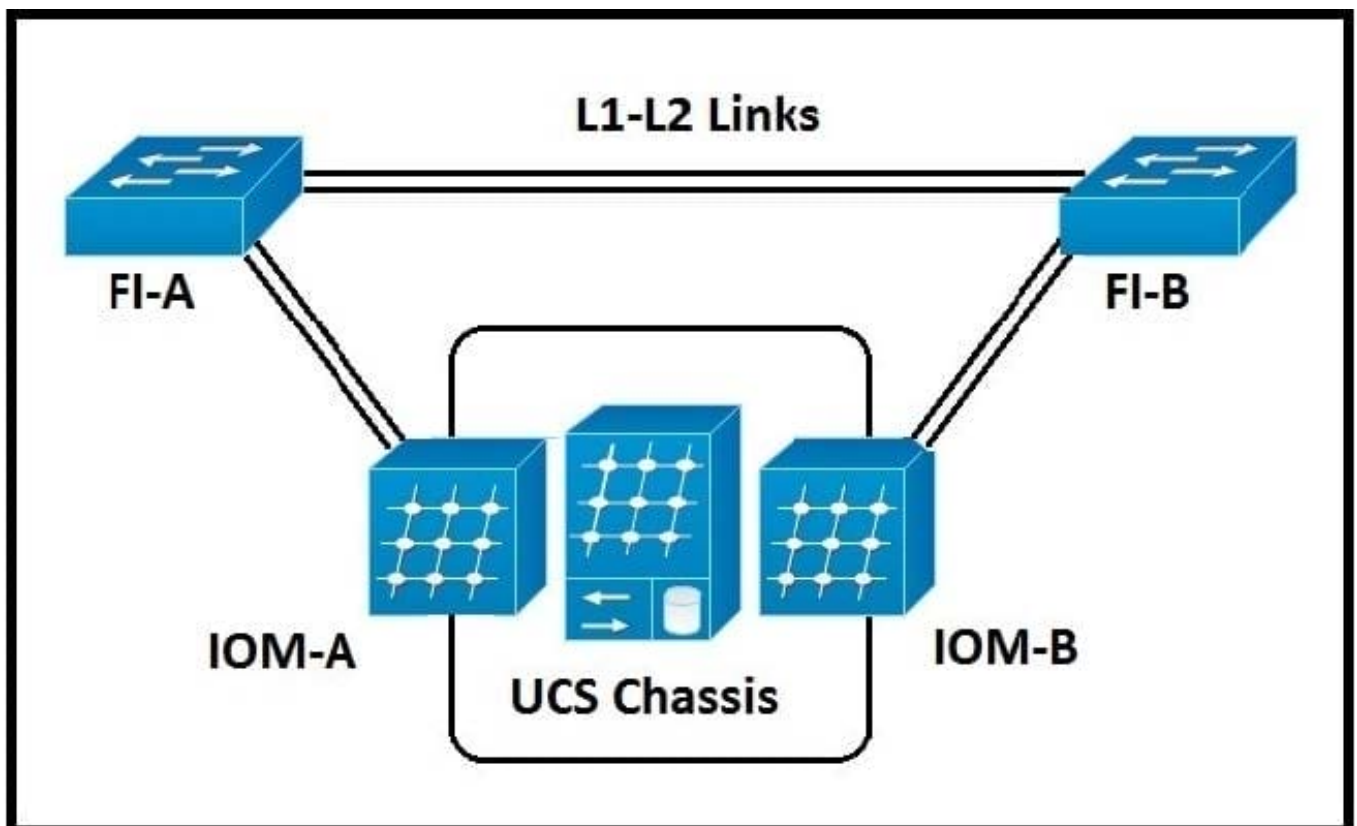
Which data center technology is recommended to achieve this goal?

- A. OTV
- B. VXLANEVPN
- C. FabricPath
- D. EoMPLS

Correct Answer: B

**QUESTION 2**

Refer to the exhibit.



A customer must ensure that the interface on a switch has enough resources to sustain the line rate traffic during peak load. Which action meets this requirement?

- A. Change the rate mode to dedicated.
- B. Set Transmit B2B credit to 16.
- C. Change the port mode to NL.
- D. Increase the data field size to 9000 bytes.

Correct Answer: A

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### QUESTION 3

Refer to the exhibit.

#### Definition of a Unified Storage Port

Prior to UCS Release 2.1(1a), appliance ports only worked for IP-based storage traffic, such as the Network File System (NFS) and the Internet Small Computer System Interfaces (iSCSIs). In UCS Releases 2.1(1a) and later, the ability for both IP-based storage and Fibre Channel over Ethernet (FCoE) to be used on the same interface was added. This type of interface is called a Unified Storage port. In order to use this feature, the storage controller must have a Converged Network Adapter (CNA) that is capable of FCoE and traditional Ethernet on the same port.

A cloud provider service provider deployed three geographically separated Cisco ACI data centers. One of the customers needs to host a clustered application that is spread across the three data centers. The cluster nodes that host the application need a layer 2 topology to communicate with each other.

Which Cisco ACI topology design meets these requirements?

- A. Multi-site
- B. Multi-pod over MP-BGP EVPN
- C. Multi-cloud
- D. Multi-pod over OSPF EVPN

Correct Answer: A

Each data center has its own APIC cluster. This is multi-site setup.

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### QUESTION 4

A engineer wants to eliminate the manual process of checking the system hardware and firmware against a specified hardware compatibility tool. The tool must be able to manage an extensive list of devices including cisco HyperFlex, MDS, and Nexus switches. The tool must manage hardware in multiple data centers so it should be deployed on public cloud infrastructure.

Which tool meets these requirements?

- A. Cisco intersight
- B. Cisco UCS director
- C. Cisco data center network manager
- D. Cisco tetration

Correct Answer: A

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## QUESTION 5

Which pools are used when a vNIC template is created in Cisco UCS Manager?

- A. WWPN
- B. UUID
- C. MAC
- D. IP

Correct Answer: C

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/3-1/b\\_UCSM\\_Network\\_Mgmt\\_Guide\\_3\\_1/b\\_UCSM\\_Network\\_Mgmt\\_Guide\\_3\\_1\\_chapter\\_0111.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/3-1/b_UCSM_Network_Mgmt_Guide_3_1/b_UCSM_Network_Mgmt_Guide_3_1_chapter_0111.html)

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## QUESTION 6

An engineer must deploy a Cisco HyperFlex system at two data centers. For redundancy reasons, the setup must achieve data protection in case of an entire site failure. The data must be available on both sites at all times to keep the recovery time objective to a minimum.

Which Cisco HyperFlex deployment model meets these requirements?

- A. ROBO cluster
- B. stretched cluster
- C. edge with four nodes or more
- D. standard with eight nodes

Correct Answer: B

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## QUESTION 7

An engineer is configuring a Cisco UCS Service Profile template for an environment that will host Windows servers. Some of the servers require access to a Fibre Channel storage network. The design requires the server HBA to send the maximum number of commands to a Fibre Channel disk using a single transmission.

Which action must be taken to meet these requirements?

- A. Set LUN Queue Depth to 240
- B. Decrease Link Down Timeout to 20.000

C. Disable 10 Timeout Retry

D. Increase Max Data Field Size to 2096

Correct Answer: A

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**QUESTION 8**

An engineer must logically partition two Cisco Nexus 7000 Series Switches into two environments called Test\_39919596 and Production\_59423879. The environments must use only F2-Series line cards and be limited to a maximum of 265 port-channels.

Which Cisco Nexus feature must be used?

A. vPC

B. VDC

C. vFC

D. VRF

Correct Answer: B

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**QUESTION 9**

A customer needs a design for a new data center network that meets these requirements:

1.

Logically partition the environment into separate security domains.

2.

Cut costs related to purchasing additional equipment.

3.

Separate routing processes, TCAM, QoS tables, and data planes.

Which technology must be used?

A. VLAN

B. vPC

C. VDC

D. VRF

Correct Answer: C

for item 3 "Separate routing processes, TCAM, QoS tables, and data planes."

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**QUESTION 10**

An engineer must integrate Layer 4 to Layer 7 services within Cisco ACI Fabric. The main requirement is to have a single point of configuration for network elements and firewall policies. Which action meets these requirements?

- A. Define the service graph model as network policy mode.
- B. Deploy the firewalls in routed mode with PBR.
- C. Deploy the firewalls in transparent mode.
- D. Define the service graph model as service policy mode.

Correct Answer: D

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**QUESTION 11**

An engineer is installing a Cisco Nexus 7000 Series Switch with F2-Series I/O Module. The company's strict security policy requires that the port be in-band. The engineer must also keep these considerations in mind:

1.

The customer's security requirements mandate the use of a secure management mechanism that supports authentication and encryption.

2.

The port should support management over IP. Which port type must be used to meet these requirements?

- A. management port
- B. console port
- C. connectivity management port
- D. Ethernet port

Correct Answer: A

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**QUESTION 12**

Refer to the exhibit.

- Place the iSCSI storage appliance on the core switch to isolate it in a private VLAN.
- Configure a token-based authentication between the storage array and the clients.
- Connect the iSCSI storage appliance on the core switch using a dedicated port.
- Apply the session mutual authentication (CHAP) method between the targets and initiators.
- Deploy the iSCSI storage appliance on the core switch in a separate VRF.
- Apply the session mutual authentication (CHAP) method between the targets and initiators.
- Connect the iSCSI storage appliance on the core switch in vFC mode.
- Configure a token-based authentication between the storage array and the clients.

A Cisco UCS chassis that has two IOMs is discovered. The chassis discovery policy creates a fabric port channel. What is the result of this policy?

- A. Cisco UCS Manager creates two separate fabric port channels.
- B. Cisco UCS Manager creates a single fabric port channel.
- C. The port channel is disabled until an administrator enables it manually.
- D. Each uplink that connects an IOM is configured as a discrete link.

Correct Answer: A

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### QUESTION 13

Which orchestration tool provides a graphical interface to manage LAN and SAN fabrics?

- A. Cisco Virtual Topology System
- B. Cisco Data Center Network Manager
- C. Cisco Nexus Fabric Manager
- D. Cisco CloudCenter

Correct Answer: B

Reference:

[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/DCNM\\_OLH/SAN\\_Client/fm\\_help/fmc.html#34479](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/DCNM_OLH/SAN_Client/fm_help/fmc.html#34479)

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### QUESTION 14

A customer wants to deploy a Layer 2 extension over a transport infrastructure for multiple data centers. The data center technology should support a localized Layer 3 gateway, a separate flooding domain, and STP isolation per data center. Which DCI technology meets these requirements?

- A. Pseudowire

B. VXLAN EVPN

C. E-Line

D. E-LAN

Correct Answer: B

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## QUESTION 15

An engineer must connect an existing Cisco Fabric Interconnect to an IP-based storage array. The connection be a channel made directly between the fabric interconnect expansion module and the storage array. The engineer must also consider that the environment is running FCoE for storage and uses QoS to prioritize traffic. Which port type should be used to meet these requirements?

A. Network

B. Uplink

C. Appliance

D. server

Correct Answer: B

<https://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-5100-series-blade-server-chassis/116075-ucs-app-connectivity-tshoot-00.html>

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