



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

Designing Cisco Data Center Infrastructure (DCID)

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**QUESTION 1**

An engineer must design a Cisco UCS environment for a customer. The design requires the most efficient use of available bandwidth with active-active uplinks. The upstream Cisco Nexus 9000 Series Switch must automatically initiate the port-channel connectivity to the fabric interconnects. Which configuration must the engineer choose to meet these requirements?

- A. 1. fabric interconnects in Ethernet end-host mode  
2. static port-channel from fabric interconnects and Cisco Nexus 9000 switches
- B. 1. fabric interconnects in Ethernet end-host mode  
2. LACP port-channel from fabric interconnects and Cisco Nexus 9000 switches
- C. 1. fabric interconnects in Ethernet switching mode  
2. LACP port-channel from fabric interconnects and Cisco Nexus 9000 switches
- D. 1. fabric interconnects in Ethernet switching mode  
2. static port-channel from fabric interconnects and Cisco Nexus 9000 switches

Correct Answer: C

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**QUESTION 2**

Refer to the exhibit.



### Create vHBA Template

Name :

Description :

Fabric ID : ☒ A ☐ B

Redundancy

Redundancy Type : ☒ No Redundancy ☐ Primary Template ☐ Secondary Template

Select VSAN :

Template Type : ☒ Initial Template ☐ Updating Template

Max Data Field Size :

WWPN Pool :

QoS Policy :

Pin Group :

Stats Threshold Policy :

Which template is used when a vHBA template pair is created for a specific server that inherits its attributes from an existing template?

- A. Secondary
- B. Initial
- C. Updating
- D. Primary

Correct Answer: A

[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)

1.

Secondary Template- All shared configurations are inherited from the Primary template.

2.

Initial Template: vNICs created from this template are not updated if the template changes.

3.

Updating Template: vNICs created from this template are updated if the template changes

### QUESTION 3



What are two reasons to select OTV as the DCI solution to connect multisite topologies? (Choose two.)

- A. It propagates hosts reachability without support of traffic flooding.
- B. Layer 3 failures do not propagate beyond the OTV edge device.
- C. It extends the spanning tree between data centers.
- D. It is an open standard.
- E. It constrains HSRP hello messages to each data center.

Correct Answer: AE

OTV introduces the concept of “MAC routing,” [...] it is justified by the need to limit flooding of Layer 2 traffic across the transport infrastructure.

The last capability introduced by OTV is to filter First Hop Redundancy Protocol (FHRP—HSRP, VRRP, and so on) messages across the logical overlay.

[https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data\\_Center/DCI/whitepaper/DCI3\\_OTV\\_Intro/DCI\\_1.html](https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/DCI/whitepaper/DCI3_OTV_Intro/DCI_1.html)

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#### QUESTION 4

A network engineer is using a Cisco UCS environment connected to a Fibre Channel storage array. The Cisco UCS environment must be connected to an existing SAN network, and several Cisco MDS 9000 Series Switches must be added to increase storage density. The solution must not exhaust the SAN network from the list of available domain IDs after connecting. Also, most of the SAN traffic must be mapped from the Cisco UCS blades to a specific group of the fabric interconnect ports.

Which two features must be deployed to meet these requirements? (Choose two.)

- A. end host mode
- B. static PIN grouping
- C. priority flow control
- D. N-Port ID virtualization
- E. dynamic port pinning

Correct Answer: CE

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#### QUESTION 5

Which feature provides a sandbox to convert NX-OS CLI commands to REST-based scripts on Cisco Nexus 7700 Series Switches?

- A. NX-API



B. Postman

C. Bash shell

D. Guest shell

Correct Answer: A

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b\\_Cisco\\_Nexus\\_9000\\_Series\\_NX-OS\\_Programmability\\_Guide\\_7x/b\\_Cisco\\_Nexus\\_9000\\_Series\\_NXOS\\_Programmability\\_Guide\\_7x\\_chapter\\_010010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide_7x/b_Cisco_Nexus_9000_Series_NXOS_Programmability_Guide_7x_chapter_010010.html)

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