

300-610^{Q&As}

Designing Cisco Data Center Infrastructure (DCID)

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QUESTION 1

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

QUESTION 2

A customer needs a design for a new network VLANs must be dynamically provisioned based on the information received from connected hosts No Layer 2 or Layer 3 configuration must be performed on the related switch ports. Which feature must be used?

- A. iPXE
- B. Network PnP
- C. POAP
- D. VM Tracker

Correct Answer: D

QUESTION 3

An engineer working for a private telecommunication company with an employee ID 4419 90 979 is installing a pair of Nexus 7000 Series Switches and must deploy the solution with these requirements:

1.

The environment must be separated for test and production purposes

2.

The separation should include control, data and management plane with fault domain isolation and improved security

3.

The test environment needs only F2 series line cards and a maximum of 256 VLANs

Which set of actions meets these requirements?

A. Use VRF faQUMLife environments Configure allow feature set for both VRFs Enable limit-resource vlan minimum for the test VRF

B. Use VDC for each of the environments Configure limit-resource module-type functionality for the test VDC Enable limit resource vlan for the test VDC.

C. Use VDC for each of the environments Configure allow feature set for both VRFs Enable limit-resource vlan maximum for the test VRF

D. Use VRF for each of the environments Configure limit-resource module-type functionality for the test VDC. Enable module-type for the VRF

Correct Answer: B

QUESTION 4

A network consultant proposes that the configuration of the Cisco UCS servers be based on service templates to facilitate the UCS infrastructure operation. The service profiles must remain connected to the template and be modified when the template settings are changed.

Which configuration meets these requirements?

A. service profile with type set to Global

B. service profile with type set to Local

C. service profile template with type set to Updating

D. service profile template with type set to Initial

Correct Answer: C

QUESTION 5

An engineer is experiencing performance issues on a cisco UCS blade server. The B-series blade server contains four CPUs, most of which are idle. The engineer notices that the CPU is suffering from too many requests sent by the NIC. Additionally, the number of queues appears to be insufficient and only a single CPU is processing the network traffic.

Which policy must be used to alleviate these issues?

A. Ethernet adapter

B. vNIC placement

C. LAN connectivity

D. Dynamic vNIC connection

Correct Answer: D

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