



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

Designing Cisco Data Center Infrastructure (DCID)

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### QUESTION 1

When planning to deploy a load-balancing service as a managed node, which ACI configuration must be included?

- A. BGP ECMP
- B. Layer 4 to Layer 7 device package
- C. inline load-balancing device
- D. ITD

Correct Answer: B

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices\\_chapter\\_0110.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI_Best_Practices/b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_0110.html)

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### QUESTION 2

The management of the Cisco Nexus switches is provided over an isolated out-of-band network. The VDC feature is configured on the Cisco Nexus core switches. How is out-of-band management access provided for each VDC?

- A. All the VDC have the same out-of-band IP address.
- B. Each VDC has a dedicated out-of-band Ethernet management port.
- C. Each VDC has a unique out-of-band IP address from the same IP subnet.
- D. Each VDC has a unique out-of-band IP address from different IP subnets among VDCs.

Correct Answer: C

Virtual Device Contexts (VDC) allow you to carve out multiple virtual switches from a single physical Nexus switch

Each VDC is logically isolated from every other VDC on a switch. Therefore just like with physical switches, in order to trunk or route traffic between them, physical interfaces and cabling is required to connect two or more VDCs together

before this can happen.

A useful VDC feature is that the mgmt0 interface on the Supervisor can be assigned a different IP address by each VDC.

VDC management can be done via virtualizing the management port so that, each VDC will get logical instance of management port and where we have to provide the separate IP address to each Virtual management Port present in VDC

from the same subnet

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### QUESTION 3

A network architect proposes a distinct Fibre Channel fabric to be used for a Cisco UCS blade server that hosts critical



applications.

Which action should be implemented for the fibre Channel traffic from the vHBA of this service to pass through the I/O module in the Cisco chassis to a specified uplink Fibre Channel port?

- A. Include a SAN pin group in the vHBA policy.
- B. Update the applied Fibre Channel adapter policy.
- C. Update the applied global QoS policy.
- D. Enable persistent binding in the vHBA policy.

Correct Answer: B

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-manager/GUI-User-Guides/Storage-Mgmt/3-2/b\\_UCSM\\_GUI\\_Storage\\_Management\\_Guide\\_3\\_2/b\\_UCSM\\_GUI\\_Storage\\_Management\\_Guide\\_3\\_2\\_chapter\\_0110.pdf](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Storage-Mgmt/3-2/b_UCSM_GUI_Storage_Management_Guide_3_2/b_UCSM_GUI_Storage_Management_Guide_3_2_chapter_0110.pdf)

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#### QUESTION 4

A customer is implementing a business continuity solution for the current data centers. The new location must mitigate the impact of a disaster in any existing data centers by providing an acceptable level of service. The solution must support:

1.

fully segregated Layer 2 and 3 fault domains;

2.

low or no human intervention for service restoration;

3.

medium to high RPO/RTO for a subset of applications;

4.

synchronous storage replication for application data.

Which disaster recovery solution must the customer select to meet these requirements?

- A. identical infrastructure facility ready to provide service
- B. mirrored inactive infrastructure facility with fully stretched resources
- C. cold infrastructure facility with basic infrastructure
- D. partially equipped infrastructure facility for on-demand activation

Correct Answer: D

**QUESTION 5**

An engineer must provide Layer 2 adjacency between data centers that are in two locations and separated by a routed network. The adjacency must be based on Cisco Nexus 7000 Series Switches. The solution must offload learning of host reachability information to the control plane to avoid excessive flood and learn congestion. Also, the data center in one of the sites experiences a large volume of unknown unicast traffic that the solution must mitigate. Which data center interconnect technology meets these requirements?

- A. VXLAN
- B. OTV
- C. VPLS
- D. LISP

Correct Answer: A

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