

# Cisco - 300-610 - Designing Cisco Data Center Infrastructure—Valid Valid Real Test

## Designing Cisco Data Center Infrastructure (DCID)

# 300-610

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### Cisco 300-610 Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>• Fabric Interconnect Operation Mode (Switch Mode, End Host Mode)</li><li>• Redundancy</li><li>• High Availability (Graceful Restart, NSF)</li></ul>                   |
| Topic 2 | <ul style="list-style-type: none"><li>• Global Policies Vs. Local Policies</li><li>• Model-Driven Programmability</li><li>• Ethernet Adaptor Policies</li><li>• Service Profile Templates</li></ul>          |
| Topic 3 | <ul style="list-style-type: none"><li>• Evaluate Options For Device And Routing Virtualization</li><li>• Evaluate Options For Hyperconverged Infrastructure</li></ul>                                        |
| Topic 4 | <ul style="list-style-type: none"><li>• Evaluate SAN Topology Options</li><li>• Number Of Interfaces Vs. IOM Uplinks</li><li>• Fibre Channel Adapter Policies</li></ul>                                      |
| Topic 5 | <ul style="list-style-type: none"><li>• Evaluate Options For Network Device Virtualization In A Data Center (Cisco VIC Adapters)</li><li>• Evaluate In-Band And Out-Of-Band Options For Management</li></ul> |
| Topic 6 | <ul style="list-style-type: none"><li>• Etermine Fcoe</li><li>• Fibre Channel Interface</li><li>• Evaluate Options For Interconnecting Data Centers Such As VXLAN EVPN And OTV</li></ul>                     |
| Topic 7 | <ul style="list-style-type: none"><li>• Direct-Attached Storage (Appliance, FC Storage, And Fcoe Ports)</li><li>• Evaluate Options For Storage Connectivity</li></ul>                                        |
| Topic 8 | <ul style="list-style-type: none"><li>• Evaluate Qos Requirements In A Data Center</li><li>• Services Insertion (Load Balancing, Security)</li></ul>                                                         |

|          |                                                                                                                                                                                                   |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 9  | <ul style="list-style-type: none"> <li>• Evaluate Options For Network Orchestration And Automation</li> <li>• Evaluate Options For Layer 3 Connectivity</li> </ul>                                |
| Topic 10 | <ul style="list-style-type: none"> <li>• Evaluate Options For Compute Orchestration And Automation</li> <li>• Evaluate Options For Layer 2 Connectivity</li> </ul>                                |
| Topic 11 | <ul style="list-style-type: none"> <li>• Evaluate Redundancy Options Such As Active</li> <li>• Active And Disaster Recovery Site</li> <li>• Evaluate Options For Ethernet Connectivity</li> </ul> |

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## Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q251-Q256):

### NEW QUESTION # 251

Which Ethernet to Cisco Fabric Interconnect connectivity configuration is supported when FCoE is implemented?

- A. VSS that has unified uplinks
- B. Ethernet and unified ports on the same port channel
- C. cross-connections with pinning
- D. vPC that has unified uplinks

**Answer: D**

Explanation:

Section: Storage Network Design

Explanation

Explanation/Reference: <https://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-manager/116188-configure-fcoe-00.html#anc11>

### NEW QUESTION # 252

Which statement accurately describe the allocation of IP pool for out of Band management of cisco?

- A. The management IP address used to access CIMC on a server can be out of band address the inter connect via the Management port
- B. The management IP address used to access CIMC on a server can be out of band address the inter connect via the fabric uplink port
- C. A maximum of Sixteen OOB IP address can be configure to access the CIMC on the server
- D. A maximum of eight OOB IP address can be configure to access the CIMC on the server

**Answer: A**

Explanation:

<https://www.cisco.com/c/en/us/support/docs/servers-unified-computing/integrated-management-controller/118367-configure-cimc-00.html#anc6>

### NEW QUESTION # 253

An engineer is designing a disaster recovery solution. In the event of a node failure, the solution should either direct all of the traffic to another node, or load-balance the traffic across the remaining nodes.

Which solution should be implemented in the design?

- A. warm standby
- B. active/active
- C. active/passive
- D. cold standby

**Answer: B**

### NEW QUESTION # 254

Drag and drop the configurations from the left onto the correct policies on the right.

Set the number of queues.

Set the RSS hash value.

Assign each vCon to a physical adapter.

Assign adapter order.

vNIC/vHBA Placement Policy

Ethernet Adapter Policy

**Answer:**

Explanation:

Set the number of queues.

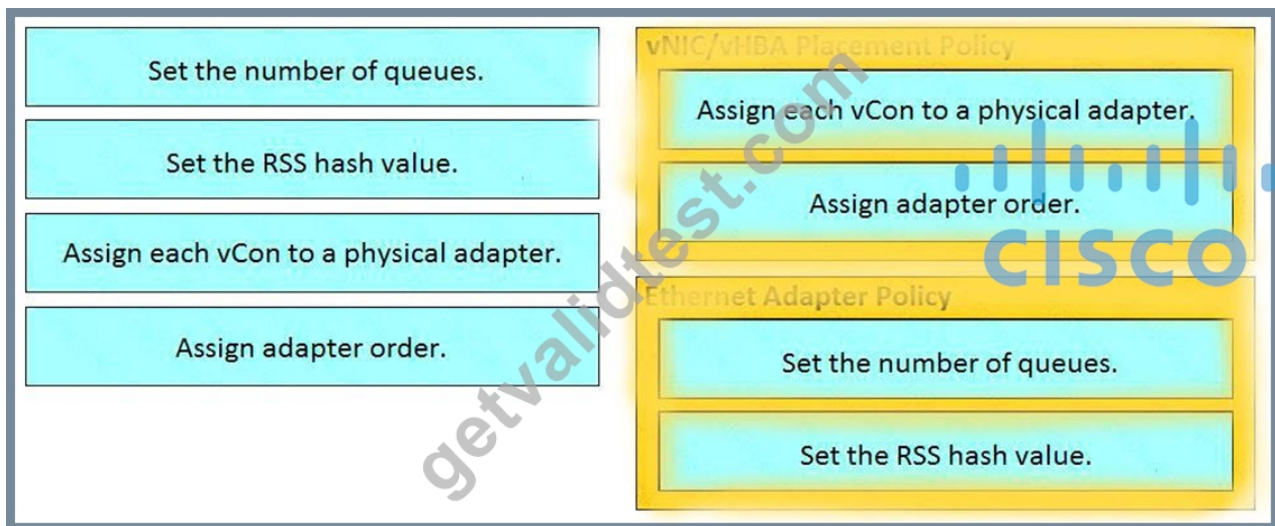
Set the RSS hash value.

Assign each vCon to a physical adapter.

Assign adapter order.

vNIC/vHBA Placement Policy

Ethernet Adapter Policy



### NEW QUESTION # 255

An engineer enables the HSRP feature on a Cisco Nexus 7000 Series Switch. It must be ensured that the switch manages packets that are sent to the local vPC MAC address, remote vPC MAC address, and HSRP virtual MAC address.

Which command accomplishes this goal?

- A. hsrp preempt
- B. map-server
- C. peer-gateway
- D. peer-switch

**Answer: C**

### NEW QUESTION # 256

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