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## Designing Cisco Data Center Infrastructure (DCID)

Cisco 300-610

Version Demo

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## Topic Break Down

Topic	No. of Questions
Topic 1, New Update	111
Topic 2, Network Design	84
Topic 3, Compute Design	38
Topic 4, Storage Network Design	0
Topic 5, Automation Design	23
<b>Total</b>	<b>256</b>

## QUESTION NO: 1

A network architect designs the iSCSI architecture. The requirements are to achieve high performance and a low amount of oversubscription and to minimize latency. Which two actions must be taken to meet these requirements? (Choose two.)

- A. Configure the size of the payload in each frame to MTU 9000.
- B. Minimize the number of hops between the storage and the hosts.
- C. Enable iSCSI port binding on the Initiator device.
- D. Set the size of the payload in each frame to MTU 1500.
- E. Use a software-based iSCSI adapter on the client side.

**ANSWER: A C**

## QUESTION NO: 2

Where does Cisco UCS handle Fibre Channel traffic failover?

- A. on a Cisco UCS Fabric Interconnect ASIC in Fibre Channel switching mode
- B. on the host, by using multipathing software
- C. in the hardware on the Cisco UCS VIC 12xx adapter or later
- D. in the hardware on any Cisco UCS VIC adapter

**ANSWER: B**

### Explanation:

Reference: [https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/unified-computing/whitepaper\\_c11-701962.html](https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/unified-computing/whitepaper_c11-701962.html)

## QUESTION NO: 3

An engineer installs a B-Series server in a Cisco UCS chassis that contains a pair of UCS-IOM-2208XP I/O modules. The full bandwidth of the I/O module must be utilized.

Which two elements should be used in this environment? (Choose two.)

- A. four twinax cables from each I/O module to each fabric interconnect
- B. Cisco UCS VIC 1225

- C. eight twinax cables from each I/O module to each fabric interconnect
- D. Cisco UCS M81KR
- E. Cisco UCS VIC 1280

**ANSWER: C E**

**Explanation:**

Reference: <https://www.connection.com/product/cisco-vic-1280-dual-40gb-capable-2nd-gen-virtual-interface-card/ucs-vic-m82-8p/13785476>

**QUESTION NO: 4**

A network design must include a solution to run CLI commands remotely on Cisco Nexus 9000 Series Switches. The customer's security policy requires secure login credentials and an encrypted underlying transport. The command output will be processed using tools that support XML or JSON encoding. Which two components should be included in the design? (Choose two.)

- A. NX-API
- B. HTTPS
- C. HTTP
- D. Bash shell
- E. SSH

**ANSWER: A B**

**Explanation:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/programmability/guide/b\\_Cisco\\_Nexus\\_9000\\_Series\\_NX-OS\\_Programmability\\_Guide/b\\_Cisco\\_Nexus\\_9000\\_Series\\_NX-OS\\_Programmability\\_Configuration\\_Guide\\_chapter\\_0101.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Configuration_Guide_chapter_0101.html)

**QUESTION NO: 5**

An ACI deployment must:

- Only use a proxy for border leaf switches.
- Classify incoming traffic on L3OUT.
- Immediately update the endpoint database when the endpoint moves between leaf switches.

Which VRF configuration must be used?

- Ingress Policy Control enforcement  
• Enforce Subnet Check enabled  
• IP Dataplane Learning disabled
- Enforce Subnet Check disabled  
• IP Dataplane Learning disabled  
• Ingress Policy Control enforcement
- Ingress Policy Control enforcement  
• Egress Policy Control enforcement  
• IP Dataplane Learning enabled
- Enforce Subnet Check enabled  
• IP Dataplane Learning enabled  
• Egress Policy Control enforcement

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**ANSWER: C**

**QUESTION NO: 6 - (DRAG DROP)**

DRAG DROP

Drag the appropriate from the left onto the current UDLD modes of operation on the right.

**Select and Place:**

Uses STP if UDLD information times out.	<b>Normal Mode</b>  
Detects when a port is stuck.	
Disables a port that has a high error rate.	
Allows a port that has a high error rate.	
	<b>Aggressive Mode</b>  

**ANSWER:**

Uses STP if UDLD information times out.	<b>Normal Mode</b> Uses STP if UDLD information times out. Allows a port that has a high error rate.
Detects when a port is stuck.	
Disables a port that has a high error rate.	<b>Aggressive Mode</b> Detects when a port is stuck. Disables a port that has a high error rate.
Allows a port that has a high error rate.	

**Explanation:**

Reference: <https://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/10591-77.html>

**QUESTION NO: 7**

What are two advantages of using Cisco vPC as compared to traditional access layer designs? (Choose two.)

- A. supports Layer 3 port channels
- B. disables spanning-tree
- C. no spanning-tree blocked ports
- D. uses all available uplink bandwidth

E. maintains single control plane

**ANSWER: C D**

## QUESTION NO: 8

Which two automation requirements can be met by using Puppet? (Choose two.)

- A. Push configuration updates immediately to servers.
- B. Enable clients to pull changes to configuration files.
- C. Enable clients to pull changes without installing an agent.
- D. Provide support for writing new modules in Python.
- E. Enable one-off infrastructure changes to be performed manually.

**ANSWER: A B**

### Explanation:

Reference: [https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/whitepaper\\_c11-740103.pdf](https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/whitepaper_c11-740103.pdf)

## QUESTION NO: 9

An engineer manages hundreds of Cisco Nexus 3000 Series and 9000 Series Switches that are installed at several data centers and wants to use one of the built-in automation tools of the Cisco NX-OS Guest Shell to automate daily activities. The engineer requires a tool that uses imperative language, has extensive library support, and is object-oriented.

Which automation tool should be used to meet these requirements?

- A. Python
- B. Bash
- C. Perl
- D. YAML

**ANSWER: A**

## QUESTION NO: 10

Which type fields can an engineer use to identify an iSCSI participant? (Choose two.)

- A. type
- B. preshared key
- C. port number
- D. identifying tag
- E. hostname

**ANSWER: C E**

**Explanation:**

Reference: <https://en.wikipedia.org/wiki/ISCSI>

**QUESTION NO: 11**

Refer to the exhibit A company plans to implement high availability between the iSCSI host and the Fibre Channel target. Which solution must the company implement to recover from a failure of a host NIC. MDS IP storage port or Fibre Channel target port?

- A. Implement HSRP of the MDS IP storage ports
- B. Set up IP storage ports to export the two Fibre Channel target ports
- C. Map the Fibre Channel target ports to one IP storage port
- D. Configure FCoE between the host NICs and MDS ports

**ANSWER: C**

**QUESTION NO: 12**

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

**ANSWER: A**

## QUESTION NO: 13

A cloud service provider is managing day-2 operations of over 200 blade servers installed in the Cisco UCS environment. This pool of network resources is providing virtual networks to their customers. To successfully operate this environment, frequent changes to vNICs and other operational policies are required across multiple UCS domains. The operations team must streamline these repetitive tasks. Which orchestration tool must be used to meet this requirement?

- A. Cisco ACI Multisite Orchestrator
- B. Cisco DNA Center
- C. Cisco UCS Director
- D. Cisco UCS Manager

**ANSWER: A**

## QUESTION NO: 14

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.

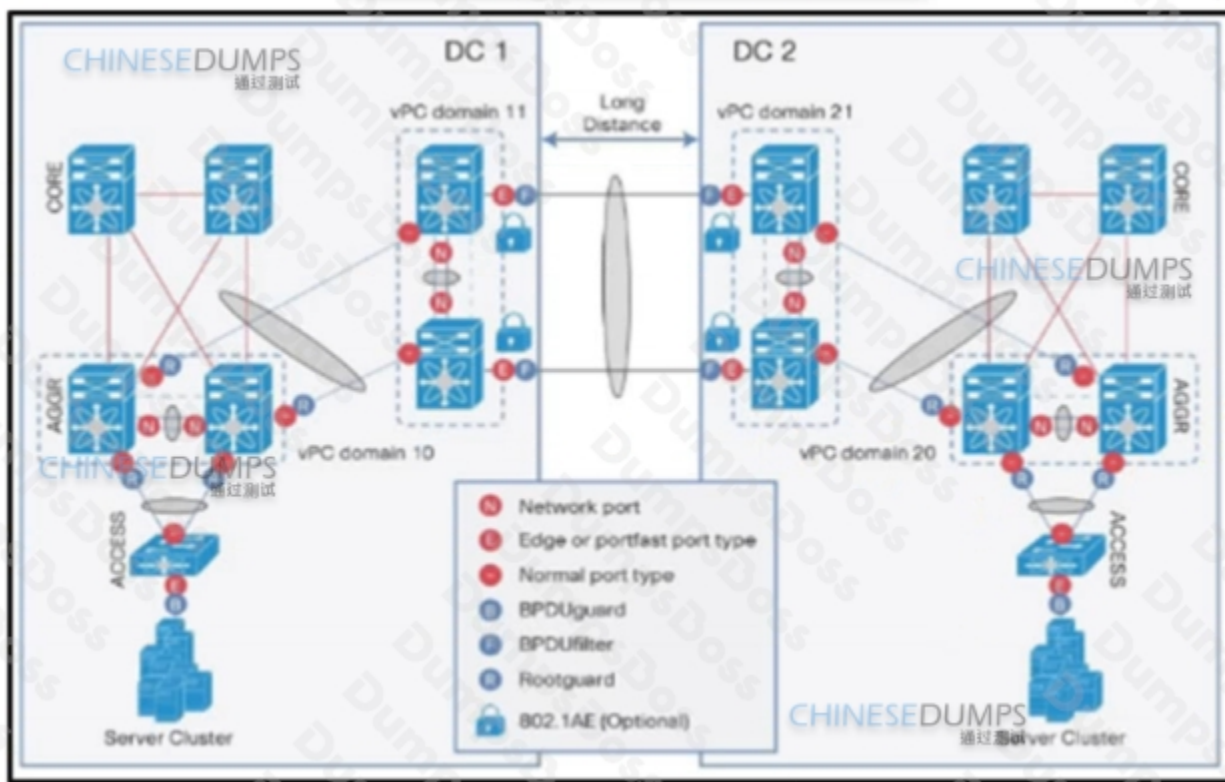
**ANSWER: B C**

**Explanation:**

Reference:

[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)

## QUESTION NO: 15



Refer to the exhibit In this scenario a Cisco engineer is building a loop-free topology where a dedicated layer of the vPC domain adjacent to the aggregation layer which also runs vPC Is used to interconnect the two data centers together. The engineer globally configures a vPC domain identifier on both vPC devices where the domain ID is the same on both peer devices. Which action successfully forms the domain?

- A. Configure vPC-peer-keepalive link on both peer devices
- B. Put peer device interfaces into a suspended state.
- C. Enable and reuse an ISL Layer 3 trunk port channel
- D. Synchronize the MAC addresses for the member ports

**ANSWER: A**