



**Cisco**

**Exam Questions 300-610**

Designing Cisco Data Center Infrastructure (DCID)

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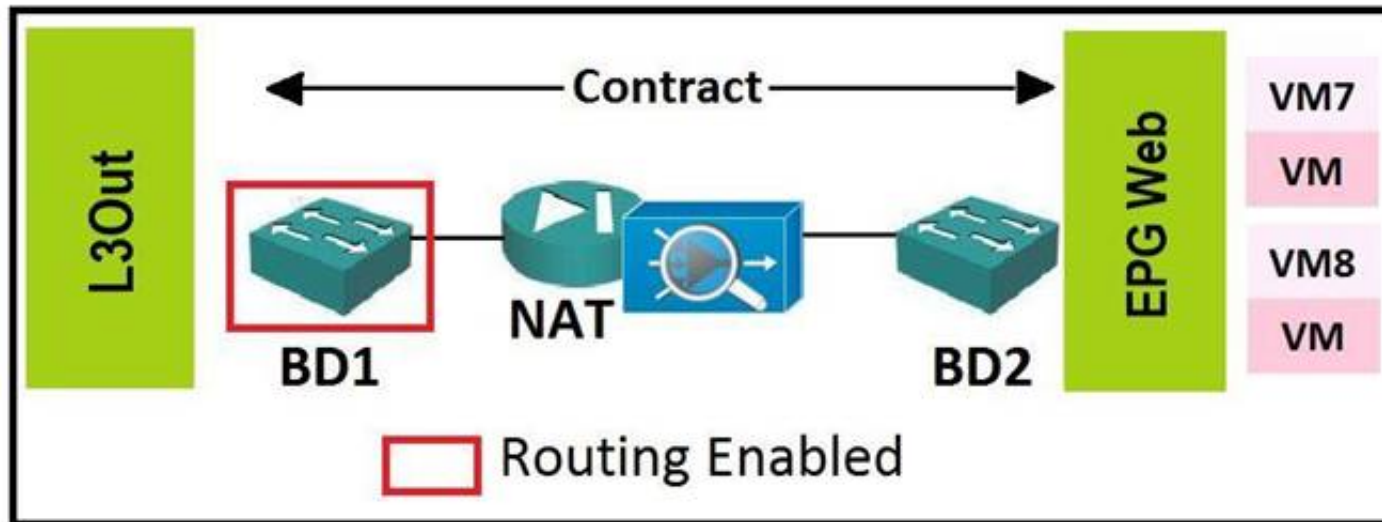
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### NEW QUESTION 1

Refer to the exhibit.



What must be the default gateway of the servers in EPG Web?

- A. subnet address of BD1
- B. subnet address of L3Out
- C. subnet address of BD2
- D. NAT appliance

**Answer: D**

### NEW QUESTION 2

Which protocol prevents fiber failures from causing a Layer 2 loop in a dark fiber DCI?

- A. BFD
- B. UDLD
- C. MCP
- D. LLDP

**Answer: B**

### NEW QUESTION 3

Refer to the exhibit.

```
Switch(config-sys-qos)# show policy-map system
Type network-qos policy-maps
=====
policy-map type network-qos system
class type network-qos class-fcoe
match qos-group 1
pause no-drop
mtu 2000
class type network-qos class-default
match qos-group 0
mtu 1500
Service-policy (qos) input: system
policy statistics status: disabled
Class-map (qos) : class fcoe (match-any)
Match : cos 3
set qos-group 1
Class-map (qos) : class-default (match-any)
Match: any
set qos-group 0
```

The FCoE packets fail to be forwarded through the switch. What is the minimum MTU QoS requirement for the FCoE to work?

- A. 9000 bytes
- B. 2000 bytes
- C. 2158 bytes
- D. 2240 bytes

**Answer: B**

### NEW QUESTION 4

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

#### NEW 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

**Answer:** A

#### NEW QUESTION 6

Which two types of service profile templates does Cisco UCS support? (Choose two.)

- A. initial
- B. permanent
- C. updating
- D. temporary
- E. connected

**Answer:** AC

#### NEW QUESTION 7

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.

**Answer:** C

#### NEW QUESTION 8

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:** CE

#### NEW QUESTION 9

Which type of encoding is used on 8-Gbps links as compared to 10-Gbps links?

- A. 8-Gbps links use 64B/66B encoding, and 10-Gbps links use 8B/10B encoding.
- B. 8-Gbps links use 8B/10B encoding, and 10-Gbps links use 64B/66B encoding.
- C. 8-Gbps links and 10-Gbps links use 8B/10B encoding.
- D. 8-Gbps links and 10-Gbps links use 64B/66B encoding.

**Answer:** B

#### NEW QUESTION 10

Drag and drop the technologies from the left onto the correct descriptions on the right.

iSCSI	allows the storage system to tell the client which paths are optimized
TOE	provides block-level access to the storage
MPIO	host software has visibility into different iSCSI ports
ALUA	offloads device CPU from encapsulation / decapsulation

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

iSCSI	ALUA
TOE	iSCSI
MPIO	MPIO
ALUA	TOE

#### NEW QUESTION 10

Which element is the main functional component of the architecture that separates the internal fabric and the external network that connects sites when VXLAN EVPN is deployed multisite?

- A. border leaf  
 B. service leaf  
 C. border gateway  
 D. service gateway

**Answer:** C

#### NEW QUESTION 11

An engineer is designing a data center that uses FCIP. How is QoS configured in this environment?

- A. A separate DSCP value and CoPP must be configured for all FCIP traffic and another for all of the FCIP in the data connection.  
 B. A separate DSCP value must be configured for all FCIP VSAN traffic.  
 C. A separate DSCP value and priority queuing must be configured for all FCIP traffic.  
 D. Two separate DSCP values must be configured, one of all of the FCIP frames in the control TCP connection and another for all of the FCIP frames in the data connection.

**Answer:** D

#### NEW QUESTION 12

Drag and drop the feature descriptions from the left onto the correct UCS Fabric Interconnect modes on the right.



- Links are active-active.
- MAC address learning occurs on the uplink ports.
- STP runs on the uplink ports.
- This is the default mode of operation.

End-Host Mode

Switch Mode

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- Links are active-active.
- MAC address learning occurs on the uplink ports.
- STP runs on the uplink ports.
- This is the default mode of operation.

End-Host Mode

Links are active-active.

MAC address learning occurs on the uplink ports.

Switch Mode

STP runs on the uplink ports.

This is the default mode of operation.

NEW QUESTION 15

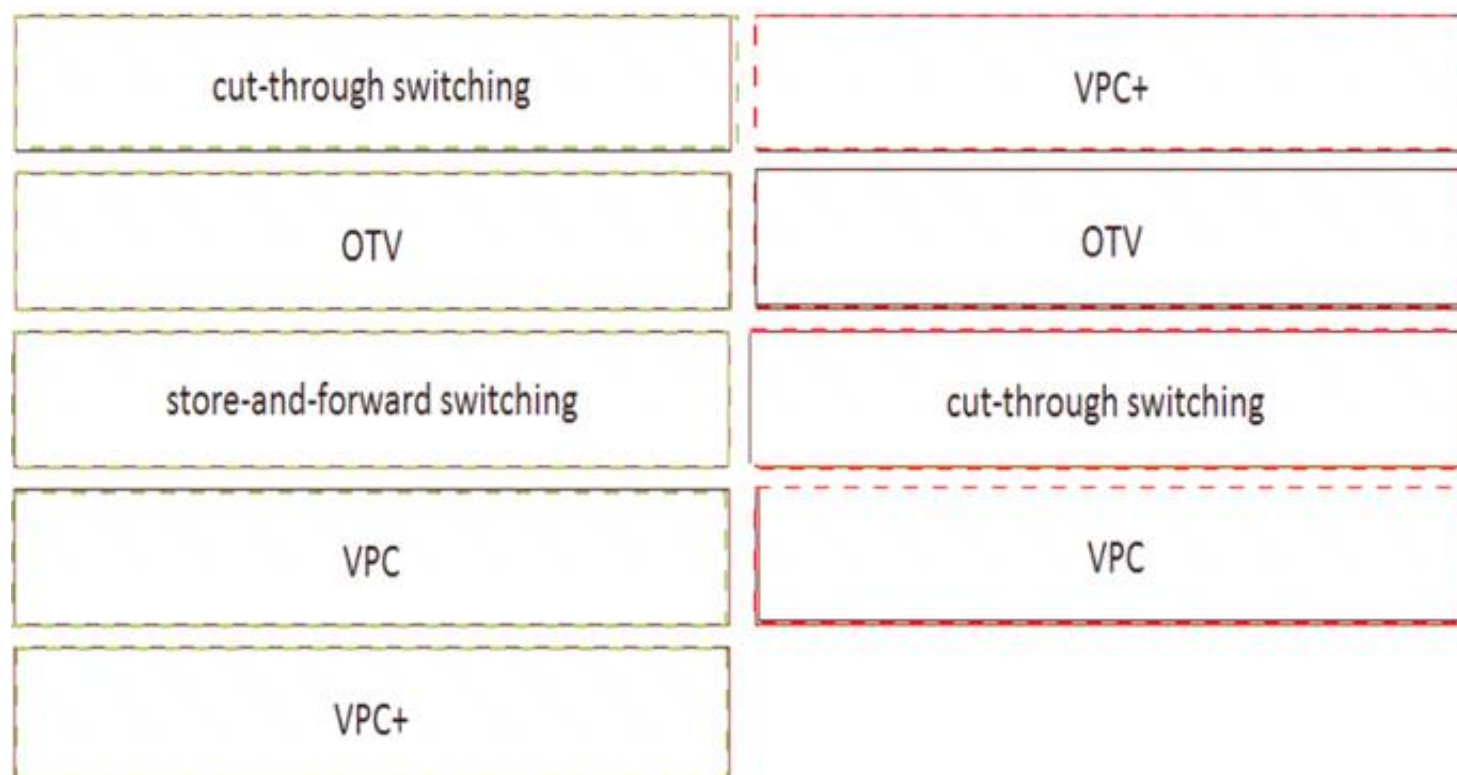
Drag and drop the data center technologies from the left onto the correct descriptions on the right. Not all technologies are used.

cut-through switching	connects a classical Ethernet vPC domain and a Cisco FabricPath cloud to interoperate
OTV	extends Layer 2 domains across distributed data centers
store-and-forward switching	performs Layer 2 lookup as soon as the destination MAC is received
VPC	two separate control planes, performs device aggregation
VPC+	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



#### NEW QUESTION 20

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:** BC

#### NEW QUESTION 21

What can be implemented on Cisco Nexus 5600 Series Switches for link redundancy within a Fibre Channel fabric?

- A. vPC+
- B. E-Trunk
- C. SAN port channel
- D. LACP port channel

**Answer:** D

#### NEW QUESTION 23

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. vPC that has unified uplinks
- D. cross-connections with pinning

**Answer:** C

#### NEW QUESTION 27

What are two functions of a Network Services Orchestrator in an NFV environment? (Choose two.)

- A. It operates at the resource-facing services layer and provides overall lifecycle management at the network service level.
- B. It provides an API-based northbound interface for transparent integration with systems that operate at the resource-facing services layer.
- C. It provides a standards-based southbound interface for transparent integration with systems that operate at the customer-facing services layer.
- D. It provides a standards-based northbound interface for transparent integration with systems that operate at the customer-facing services layer.
- E. It operates at the customer-facing services layer and provides the management interface for the virtual network devices.

**Answer:** AB

#### NEW QUESTION 32

Which address pool is used when a vHBA template is created?

- A. MAC
- B. WWPN
- C. IP
- D. UUID

**Answer:** B

NEW QUESTION 37

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

Uses STP if UDLD information times out.

Detects when a port is stuck.

Disables a port that has a high error rate.

Allows a port that has a high error rate.

Normal Mode

Aggressive Mode

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Uses STP if UDLD information times out.

Detects when a port is stuck.

Disables a port that has a high error rate.

Allows a port that has a high error rate.

Normal Mode

Uses STP if UDLD information times out.

Allows a port that has a high error rate.

Aggressive Mode

Detects when a port is stuck.

Disables a port that has a high error rate.

NEW QUESTION 42

An engineer is designing a Multichassis EtherChannel topology in which two switches must appear as a single device to a third downstream switch? Which two technologies meet this requirement? (Choose two.)

- A. HSRP
- B. VSS
- C. vPC
- D. 802.1q
- E. FEX

Answer: BC

NEW QUESTION 47

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

**Answer:** B

#### NEW QUESTION 49

Which two methods mitigate congestion in a SAN network? (Choose two.)

- A. Configure ER\_RDY to allow splitting of each ISL between switches into separate virtual links.
- B. Use the port-monitor command to detect slow drain devices.
- C. Configure the port channel to enable individual buffer-to-buffer credits.
- D. Configure the port monitor to allow categorization of a specific device as slow.
- E. Configure the flow control for the FC to use R\_RDY.

**Answer:** BD

#### NEW QUESTION 52

Which factor determines the choice of platform designing a Cisco HyperFlex infrastructure to support computer-aided design applications?

- A. network speed
- B. GPU support
- C. storage capacity
- D. processor count

**Answer:** C

#### NEW QUESTION 55

An engineer deploys LISP VM mobility. Which feature is configured on the interfaces that have VM mobility enabled?

- A. IP redirects
- B. flow control
- C. proxy ARP
- D. HSRP

**Answer:** C

#### NEW QUESTION 59

Which two vSphere features must be included in the design of a Cisco HyperFlex systems stretched cluster? (Choose two.)

- A. HA
- B. VSS
- C. FT
- D. VDP
- E. DRS

**Answer:** AE

#### NEW QUESTION 60

Which pools are used when a vNIC template is created in Cisco UCS Manager?

- A. WWPN
- B. UUID
- C. MAC
- D. IP

**Answer:** C

#### NEW QUESTION 62

Which two configurations allow for routing traffic between two VDCs? (Choose two.)

- A. Connect the VDCs to an external Layer 3 device.
- B. Cross-connect the ports between the VDCs.
- C. Create VRF-aware software infrastructure interfaces.
- D. Create a policy map in the default VDC that routes traffic between the VDCs.
- E. Create interfaces in the VDC that can be accessed by another VDC.

**Answer:** AD

#### NEW QUESTION 63

Which authentication software natively runs within the CLI of Cisco NX-OS devices?

- A. Python
- B. Ansible
- C. Puppet
- D. Chef

Answer: B

NEW QUESTION 67

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## Relate Links

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