

# Cisco

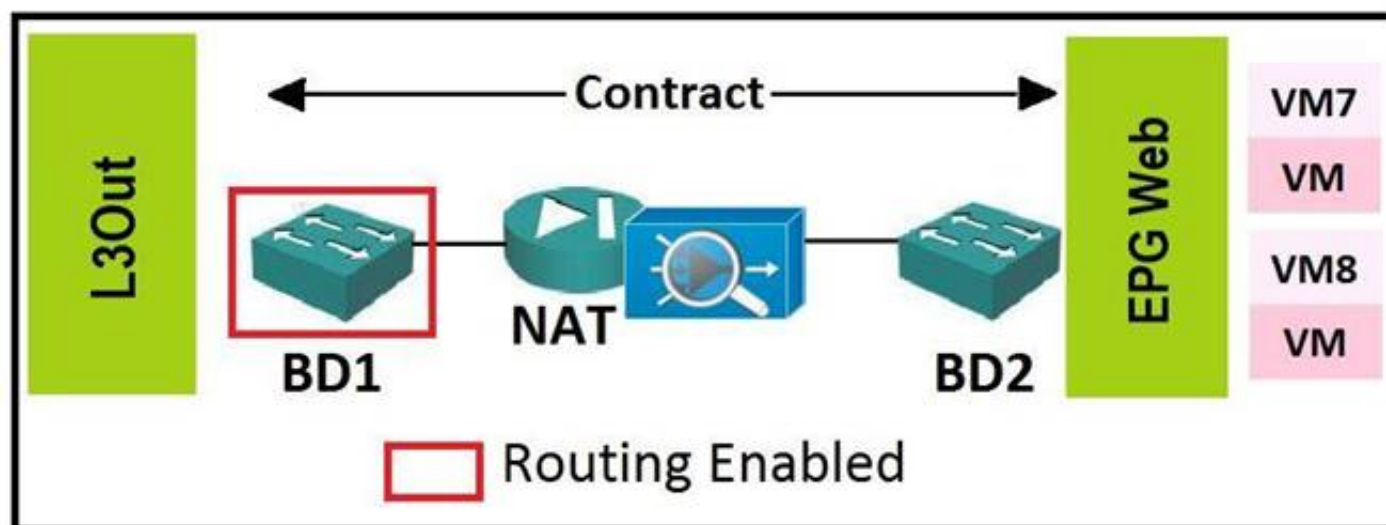
## Exam Questions 300-610

Designing Cisco Data Center Infrastructure (DCID)



### 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

What influences the number of ISLs that are required between Cisco MDS Series switches?

- A. FCoE protocol
- B. type of storage
- C. end-to-end oversubscription ratio
- D. N Port virtualization

**Answer: C**

### 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 two configuration methods can be used to deploy QoS to Cisco MDS Series switches? (Choose two.)

- A. zone-based QoS
- B. multiple QoS policies that match individual devices
- C. VSAN-based QoS
- D. FCoE VLAN-based QoS
- E. multiple QoS policies that match multiple devices

**Answer:** AC

**NEW QUESTION 6**

A Cisco UCS instance has four interfaces on a UCS VIC. Where on the fabric interconnect does each interface terminate?

- A. vPC
- B. virtual interface
- C. port channel
- D. physical port

**Answer:** B

**NEW QUESTION 7**

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 8**

Which mode must be enabled on a Cisco UCS Fabric Interconnect to connect directly to a storage array?

- A. NPIV mode
- B. FC end-host mode
- C. NPV mode
- D. FC switching mode

**Answer:** D

**Explanation:**

Section: Storage Network Design

**NEW QUESTION 9**

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

- A. Mastered
- B. Not Mastered

Answer: A

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

Assign each vCon to a physical adapter.

Assign adapter order.

Ethernet Adapter Policy

Set the number of queues.

Set the RSS hash value.

NEW QUESTION 10

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

OTV

store-and-forward switching

VPC

VPC+

connects a classical Etherent vPC domain and a Cisco FabricPath cloud to interoperate

extends Layer 2 domains across distributed data centers

performs Layer 2 lookup as soon as the destination MAC is received

two separate control planes, performs device aggregation

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



cut-through switching	VPC+
OTV	OTV
store-and-forward switching	cut-through switching
VPC	VPC
VPC+	

NEW QUESTION 10

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 11

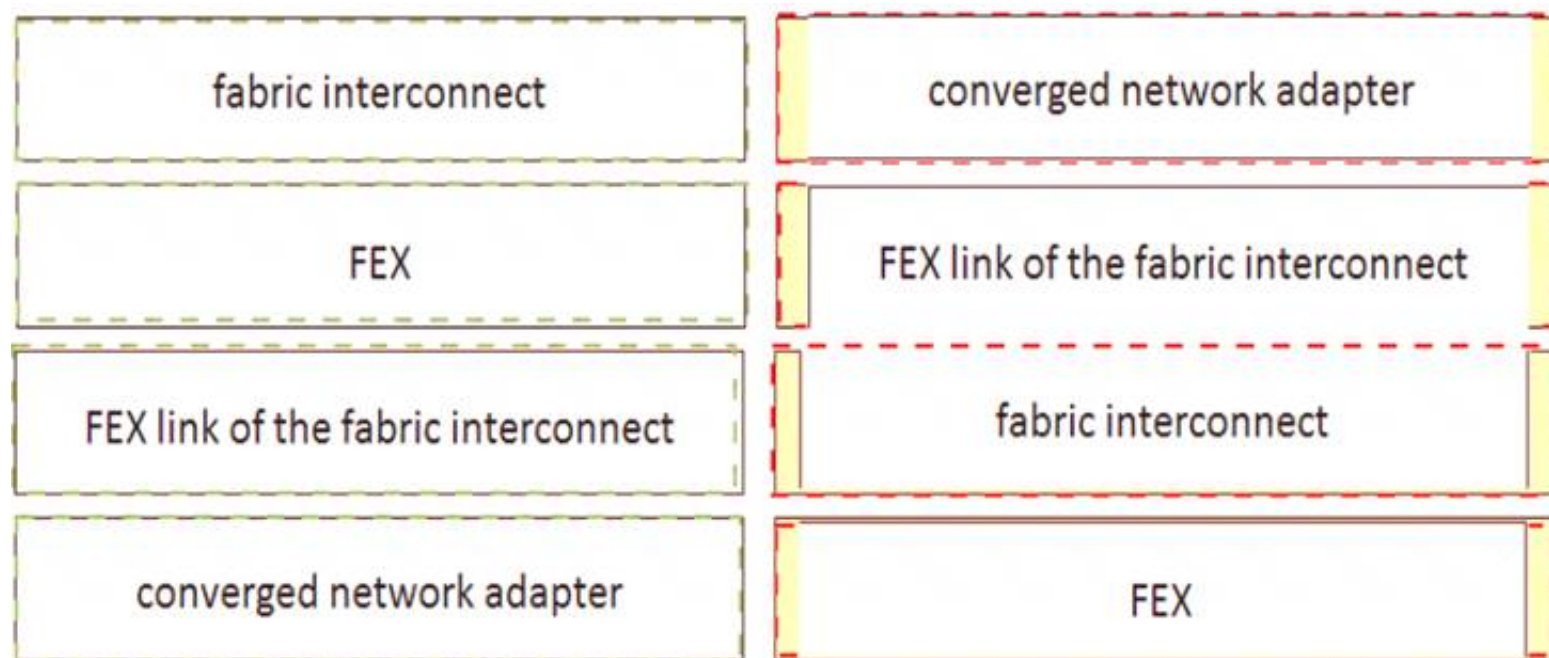
Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.

fabric interconnect	The Fibre Channel fabric fails for all of the connected Cisco UCS chassis.
FEX	The Fibre Channel fabric fails for one Cisco UCS chassis.
FEX link of the fabric interconnect	The Fibre Channel fabric fails for some of the servers within a Cisco UCS chassis.
converged network adapter	The Fibre Channel fabric fails for one server.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



#### NEW QUESTION 16

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 21

What is an advantage of using OTV as compared to VPLS for data center redundancy?

- A. prevents loops on point-to-point links
- B. provides head-end replication
- C. uses a proactive MAC advertisement
- D. provides full-mesh connectivity

**Answer: A**

#### NEW QUESTION 25

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 26

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

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

**Answer: B**

#### NEW QUESTION 27

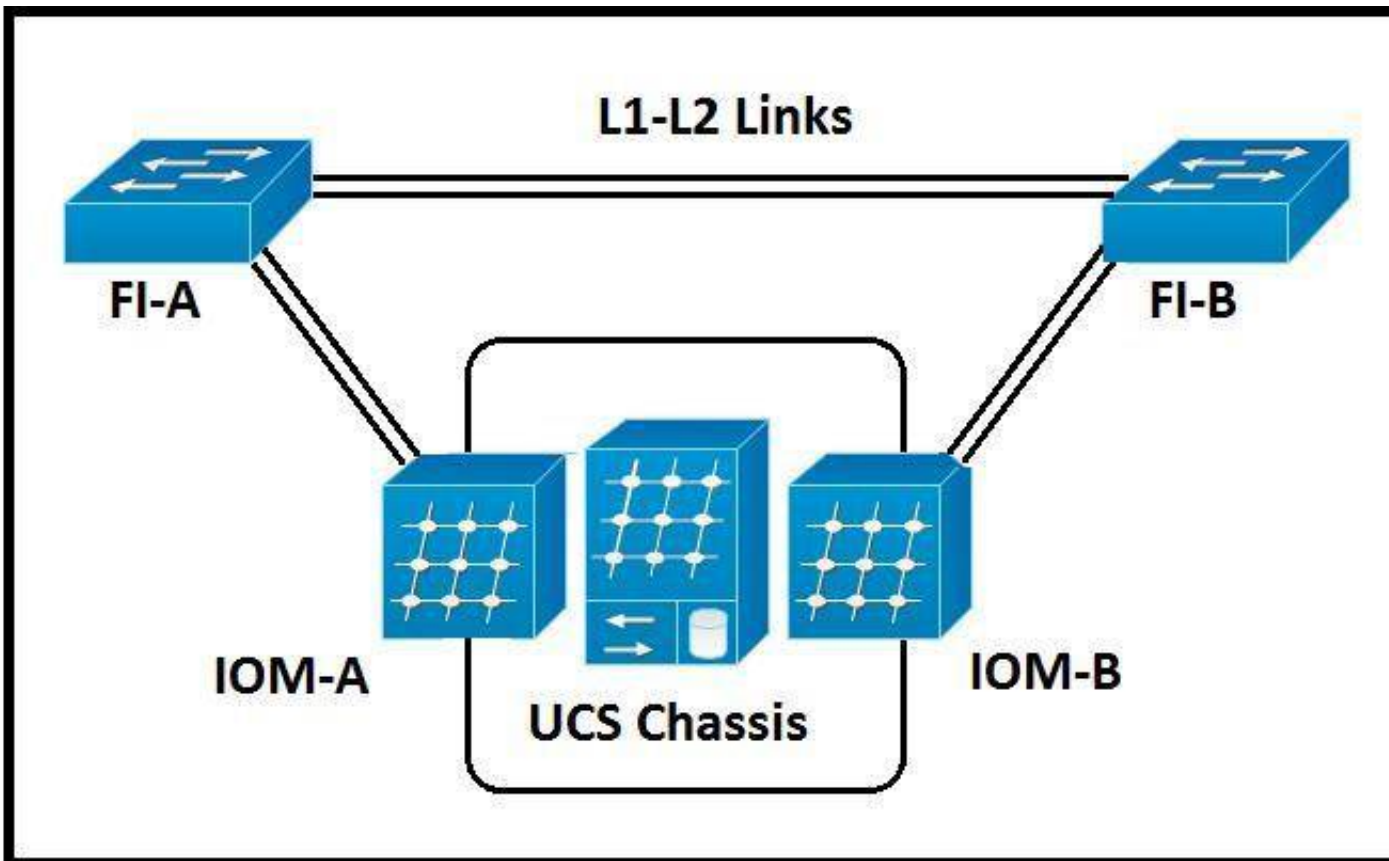
Which Cisco HyperFlex feature provides virtual machine-level cost scaling for desktop virtualization growth?

- A. HyperFlex Edge support
- B. encryption offload cards
- C. dedicated compute nodes
- D. fabric interconnects

**Answer: A**

#### NEW QUESTION 32

Refer to the exhibit.



A Cisco UCS chassis that has two IOMs is discovered. The chassis discovery policy creates a fabric port channel. What is the result of this policy?

- A. Cisco UCS Manager creates two separate fabric port channels.
- B. Cisco UCS Manager creates a single fabric port channel.
- C. The port channel is disabled until an administrator enables it manually.
- D. Each uplink that connects an IOM is configured as a discrete link.

**Answer: A**

#### NEW QUESTION 35

Which technology enables Layer 2 extension between remote data center sites?

- A. FCIP
- B. GRE
- C. DMVPN
- D. OTV

**Answer: D**

#### NEW QUESTION 37

What are two advantages of using Cisco vPC over 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: CD**

#### NEW QUESTION 42

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 45

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 47

Which orchestration tool should be used for the management and analytics of servers across multiple sites?

- A. Cisco Intersight
- B. Cisco Nexus Fabric Manager
- C. Cisco UCS Manager
- D. Cisco Data Center Network Manager

Answer: A



**NEW QUESTION 49**

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 51**

What is a design consideration when implementing FSPF?

- A. Routes are based on the domain ID.
- B. Routes are based on the distance vector protocol.
- C. FSPF runs only on F Ports.
- D. FSPF runs on a per-chassis basis.

**Answer: A**

**NEW QUESTION 53**

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 55**

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 56**

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