



Cisco

Exam Questions 300-610

Designing Cisco Data Center Infrastructure (DCID)

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NEW QUESTION 1

Drag the requirements from the left onto the correct policy types on the right.

Support tagging policies.

Scrub disks on disassociation.

Synchronize server power state.

Create a utility partition on a SD card.

Implement Hypervisor password policies.

Cisco Intersight Global Policy

Cisco UCS Manager Local Policy

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Support tagging policies.

Scrub disks on disassociation.

Synchronize server power state.

Create a utility partition on a SD card.

Implement Hypervisor password policies.

Cisco Intersight Global Policy

Implement Hypervisor password policies.

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Support tagging policies.

Cisco UCS Manager Local Policy

Scrub disks on disassociation.

Create a utility partition on a SD card.

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

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 5

Refer to the exhibit.

Create vHBA Template

Name

:

Description

:

Fabric ID

:

☒ A
 ☐ B

Redundancy

:

Redundancy Type

:

☒ No Redundancy
 ☐ Primary Template
 ☐ Secondary Template

Select VSAN

:

default

▼

Create VSAN

Template Type

:

☒ Initial Template
 ☐ Updating Template

Max Data Field Size

:

2048

WWPN Pool

:

Select (pool default used by default)

▼

QoS Policy

:

<not set>

▼

Pin Group

:

<not set>

▼

Stats Threshold Policy

:

default

▼

Which template is used when a vHBA template pair is created for a specific server that inherits its attributes from an existing template?

- A. Secondary
- B. Initial
- C. Updating
- D. Primary

Answer: B

NEW QUESTION 6

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 7

Which feature must be configured to connect a classical Ethernet network to a data center network so that the data center network appears to be one large switch.

- A. VPC+
- B. UDLD
- C. EVPN
- D. OSPF

Answer: C

NEW QUESTION 8

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 9

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:

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

NEW QUESTION 10

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 10

What are two characteristics of VRF-Lite on the Cisco NX-OS platform? (Choose two.)

- A. Layer 3 interfaces can belong to multiple VRFs.
B. VRF-Lite interfaces can be Layer 2.
C. Overlapping IP addresses are permitted on different VRFs.
D. Interfaces that belong to VRFs can be physical or logical.
E. VRF-Lite interfaces support MPLS.

Answer: CD

NEW QUESTION 13

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 16

Which approach splits a pair of clustered fabric interconnects into two standalone devices?

- A. Run the disable fips-mode command on each fabric interconnect.
- B. Run the connect local-management command on each fabric interconnect.
- C. Erase the configuration of both fabric interconnects.
- D. Unplug the Layer 1 and Layer 2 interfaces between the devices.

Answer: D

NEW QUESTION 18

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 22

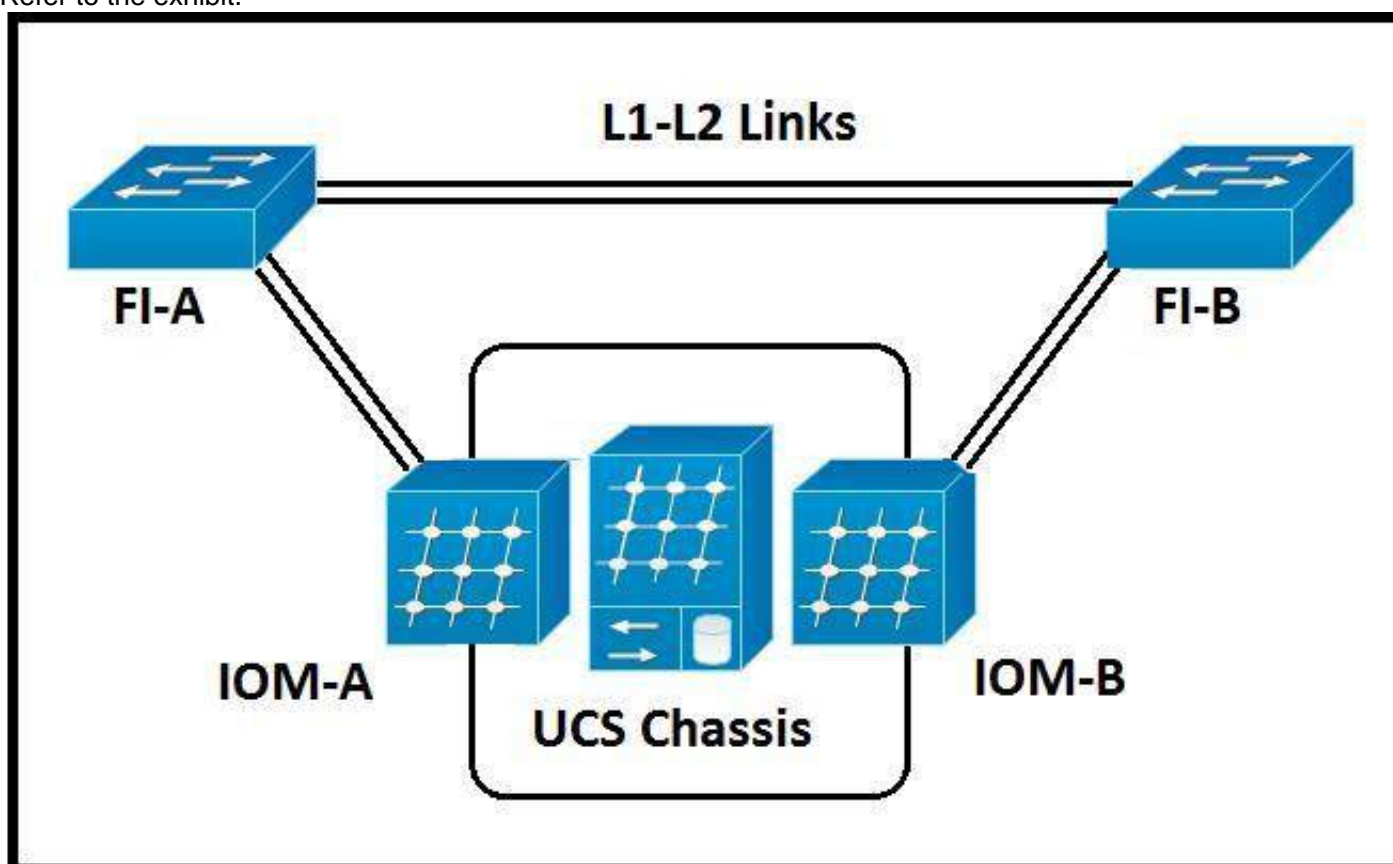
Which two configurations are available by using a service profile template in Cisco UCS Manager? (Choose two.)

- A. number of vHBAs
- B. ARP entries
- C. UUID assignment
- D. VXLAN membership
- E. target server

Answer: AC

NEW QUESTION 25

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 30

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

- A. FCIP

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

Answer: D

NEW QUESTION 33

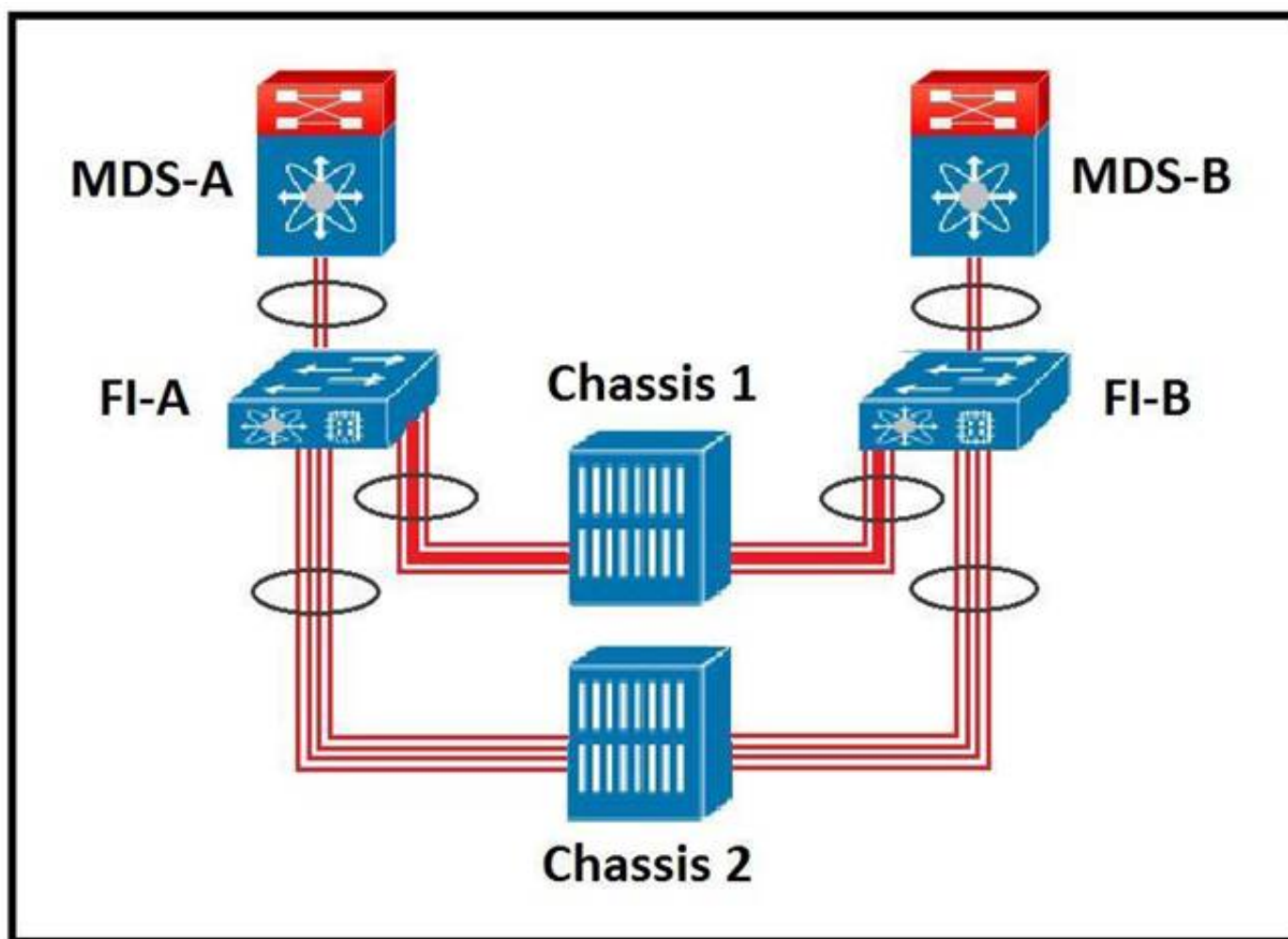
Which two features are provided by deploying an OOB management network in a Cisco Nexus data center? (Choose two.)

- A. Layer 3 path for monitoring purposes
- B. Layer 2 path for server traffic
- C. Layer 2 path for a vPC peer link
- D. Layer 3 path for vPC keepalive packets
- E. Layer 3 path for server traffic

Answer: BC

NEW QUESTION 37

Refer to the exhibit.



An engineer must assign multiple Fibre Channel IDs to a single port channel. Which two features must be enabled this goal? (Choose two.)

- A. SAN Pin Groups on the Cisco UCS Fabric Interconnects.
- B. NPV feature on the Cisco MDS Series.
- C. end-host mode feature on the Cisco UCS Fabric Interconnects
- D. NPIV feature on the Cisco MDS Series
- E. Smart Zoning feature on the Cisco UCS Fabric Interconnects

Answer: BD

NEW QUESTION 40

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 43

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 48

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 53

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 57

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Relate Links

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