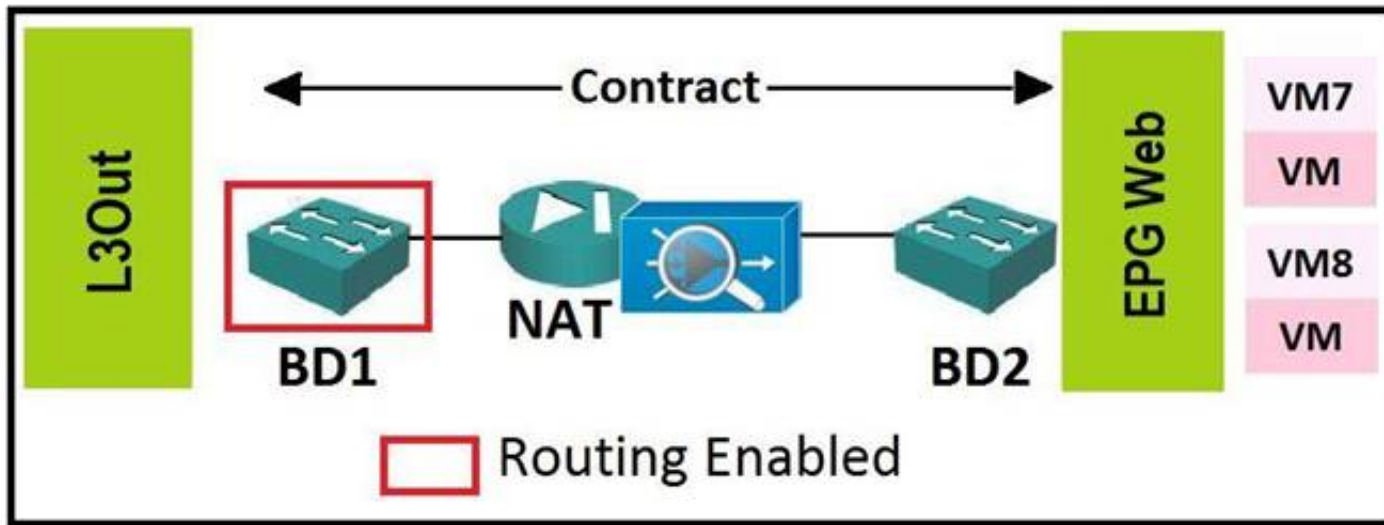# Cisco

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
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
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 4
What is the disadvantage of asynchronous storage replication as compared to synchronous storage replication in a disaster recovery design?

A. reduction in application performance
B. distance limitations
C. specific backup requirements
D. potential data loss

Answer: D

NEW QUESTION 5
The management of the Cisco Nexus switches is provided over an isolated put-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 6
Which orchestration tool provides a graphical interface to manage LAN and SAN fabrics?

A. Cisco Virtual Topology System
B. Cisco Data Center Network Manager
C. Cisco Nexus Fabric Manager
D. Cisco CloudCenter

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
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 9
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 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 10
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:

fabric interconnect	converged network adapter
FEX	FEX link of the fabric interconnect
FEX link of the fabric interconnect	fabric interconnect
converged network adapter	FEX

NEW QUESTION 14
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 operateat 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 18
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 21
Which two statements describe Ethernet switching mode on Cisco UCS 6100 Series Fabric Interconnects? (Choose two.)

A. STP runs on the uplink ports of each VLAN, as defined by PVSTP+.
B. STP runs on the uplink ports of each VLAN, as defined by MSTP.
C. The STP parameter configuration is unsupported.
D. The STP parameter configuration is supported.
E. STP runs on the server ports.
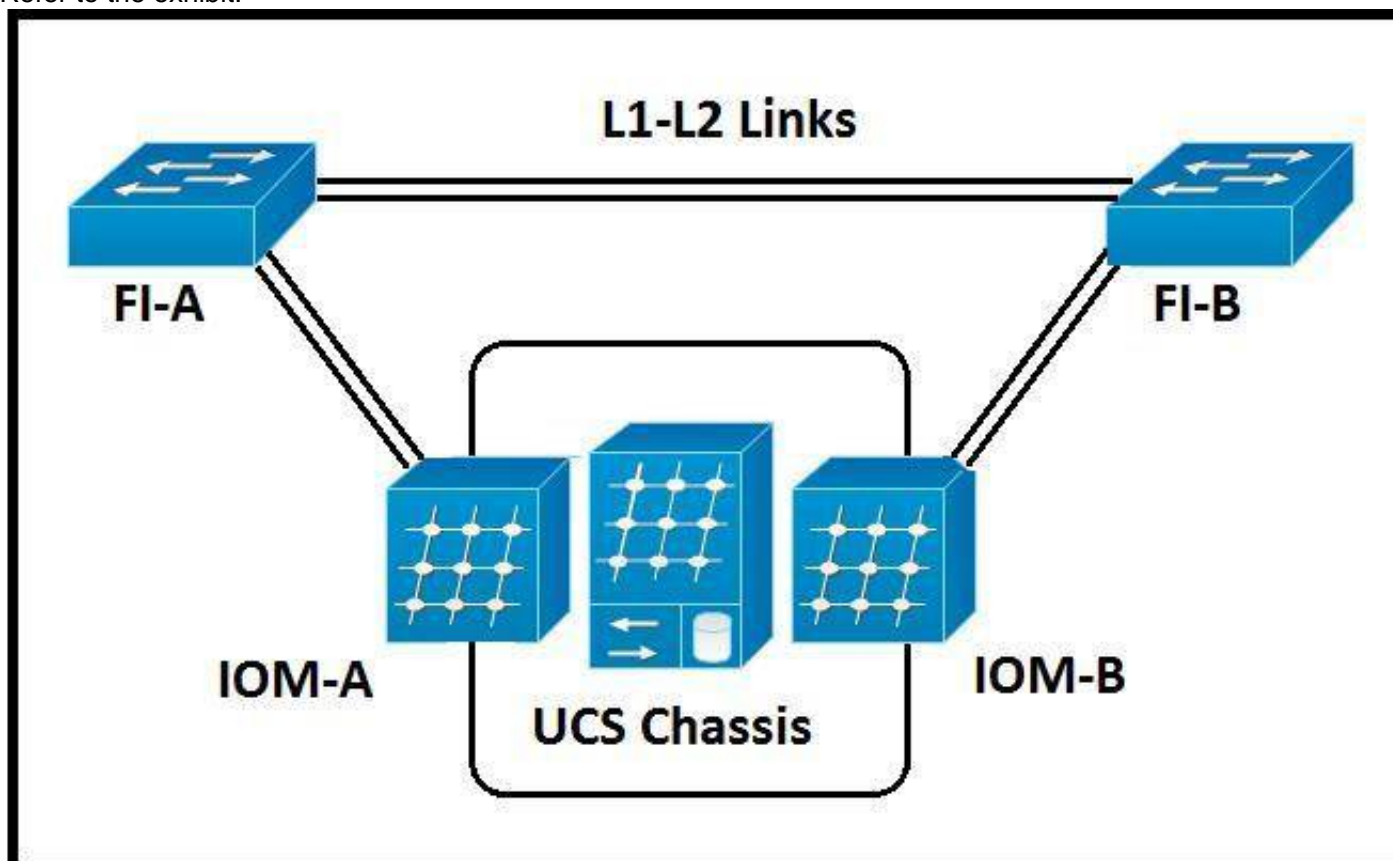
Answer: AC

NEW QUESTION 25
Which two naming formats identify target or initiator iSCSI nodes? (Choose two.)

A. WWPN
B. EUI
C. IQN
D. WWN
E. OUI

Answer: CD

NEW QUESTION 26
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 27
Which technology enables Layer 2 extension between remote data center sites?

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

Answer: D

NEW QUESTION 29
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 31
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.

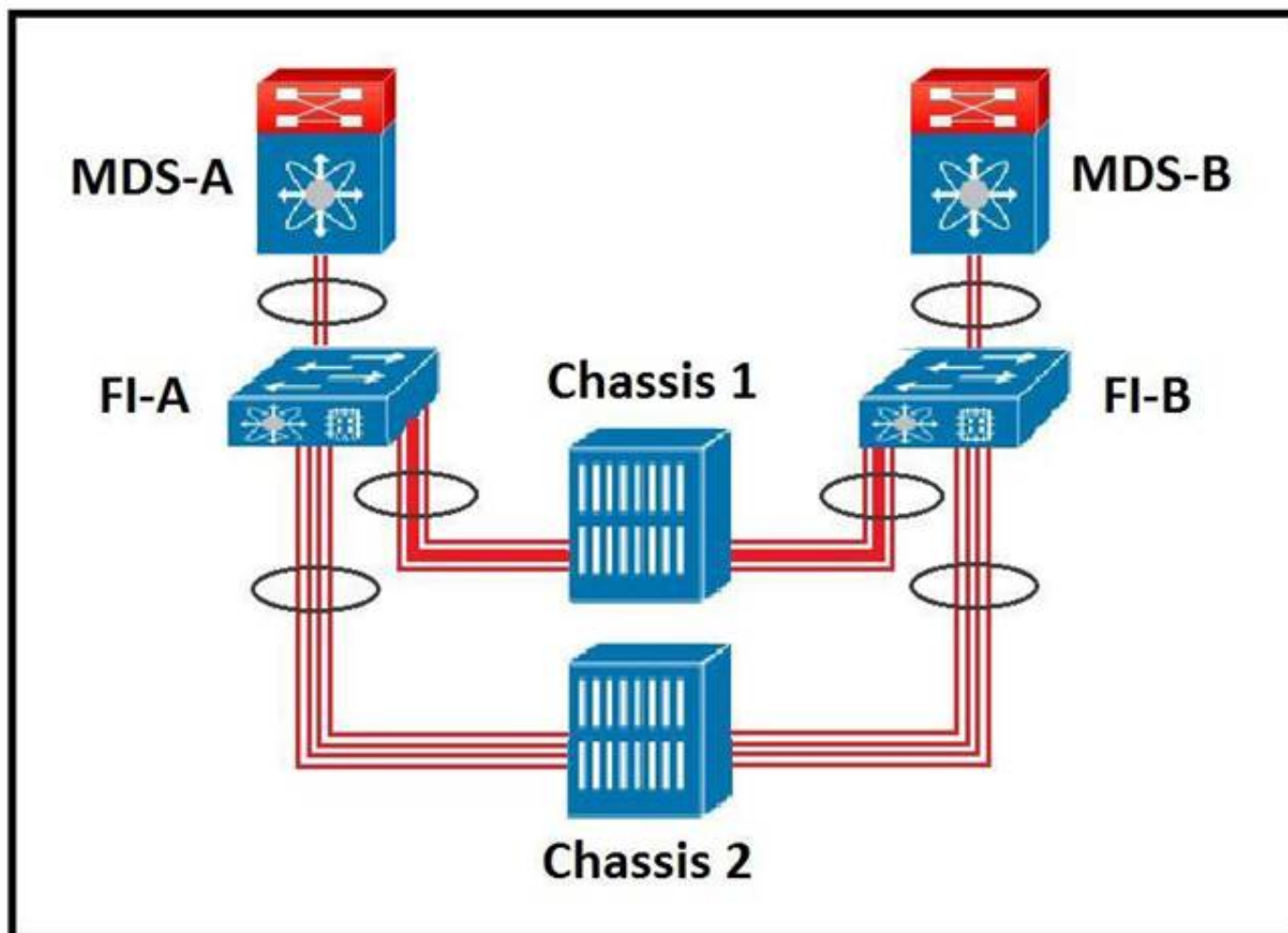Disables a port that has a high error rate.

NEW QUESTION 35
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 36
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 39
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 42
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 multicast rendezvous point redundancy mode is valid for Bidirectional PIM?

A. Embedded RP
B. Phantom RP
C. MSDP
D. PIM anycast RP

Answer: D

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 58
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