

Cisco

Exam Questions 300-610

Designing Cisco Data Center Infrastructure (DCID)



NEW QUESTION 1

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 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

What is an advantage of Cisco HyperFlex Edge as compared to Cisco HyperFlex Standard Clusters?

- A. Cisco Intersight automatically creates an invisible cloud witness.
- B. Cisco UCS 5108 Blade Server chassis provides SEEPROM connectivity to solve split-brain scenarios.
- C. Cisco UCS Manager provides service profile portability across nodes.
- D. Cisco HyperFlex Edge provides native container support through the KVM hypervisor.

Answer: A

NEW QUESTION 7

A failure occurs on the network between two BFD and OSPF neighbors. Drag and drop the protocol actions from the left into the correct order on the right.

| | |
|---|--------|
| BFD notifies the local OSPF process that the BFD neighbor is no longer reachable. | step 1 |
| If an alternate path is available, routers immediately start converging on it. | Step 2 |
| The BFD neighboring session with the OSPF peer is terminated. | Step 3 |
| The local OSPF process tears down the OSPF neighbor relationship. | Step 4 |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

| | |
|---|---|
| BFD notifies the local OSPF process that the BFD neighbor is no longer reachable. | The BFD neighboring session with the OSPF peer is terminated. |
| If an alternate path is available, routers immediately start converging on it. | BFD notifies the local OSPF process that the BFD neighbor is no longer reachable. |
| The BFD neighboring session with the OSPF peer is terminated. | The local OSPF process tears down the OSPF neighbor relationship. |
| The local OSPF process tears down the OSPF neighbor relationship. | If an alternate path is available, routers immediately start converging on it. |

NEW QUESTION 8

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 9

Refer to the exhibit.

Create vHBA Template

Name :

Description :

Fabric ID : A B

Redundancy

Redundancy Type : No Redundancy Primary Template Secondary Template

Select VSAN :

Template Type : Initial Template Updating Template

Max Data Field Size :

WWPN Pool :

QoS Policy :

Pin Group :

Stats Threshold Policy :

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 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 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 14

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 18

Drag and drop the configurations from the left onto the correct policies on the right.

| | |
|---|--|
| Set the number of queues. | vNIC/vHBA Placement Policy <div style="border: 1px solid blue; height: 20px; margin: 5px;"></div> <div style="border: 1px solid blue; height: 20px; margin: 5px;"></div> |
| Set the RSS hash value. | |
| Assign each vCon to a physical adapter. | Ethernet Adapter Policy <div style="border: 1px solid blue; height: 20px; margin: 5px;"></div> <div style="border: 1px solid blue; height: 20px; margin: 5px;"></div> |
| Assign adapter order. | |

- 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 22

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 26

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 27

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 31

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 34

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 36

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 39

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: AB

NEW QUESTION 42

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 43

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

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

Answer: D

NEW QUESTION 44

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 48

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 49

When planning to deploy a load-balancing service as a managed node, which ACI configuration must be included?

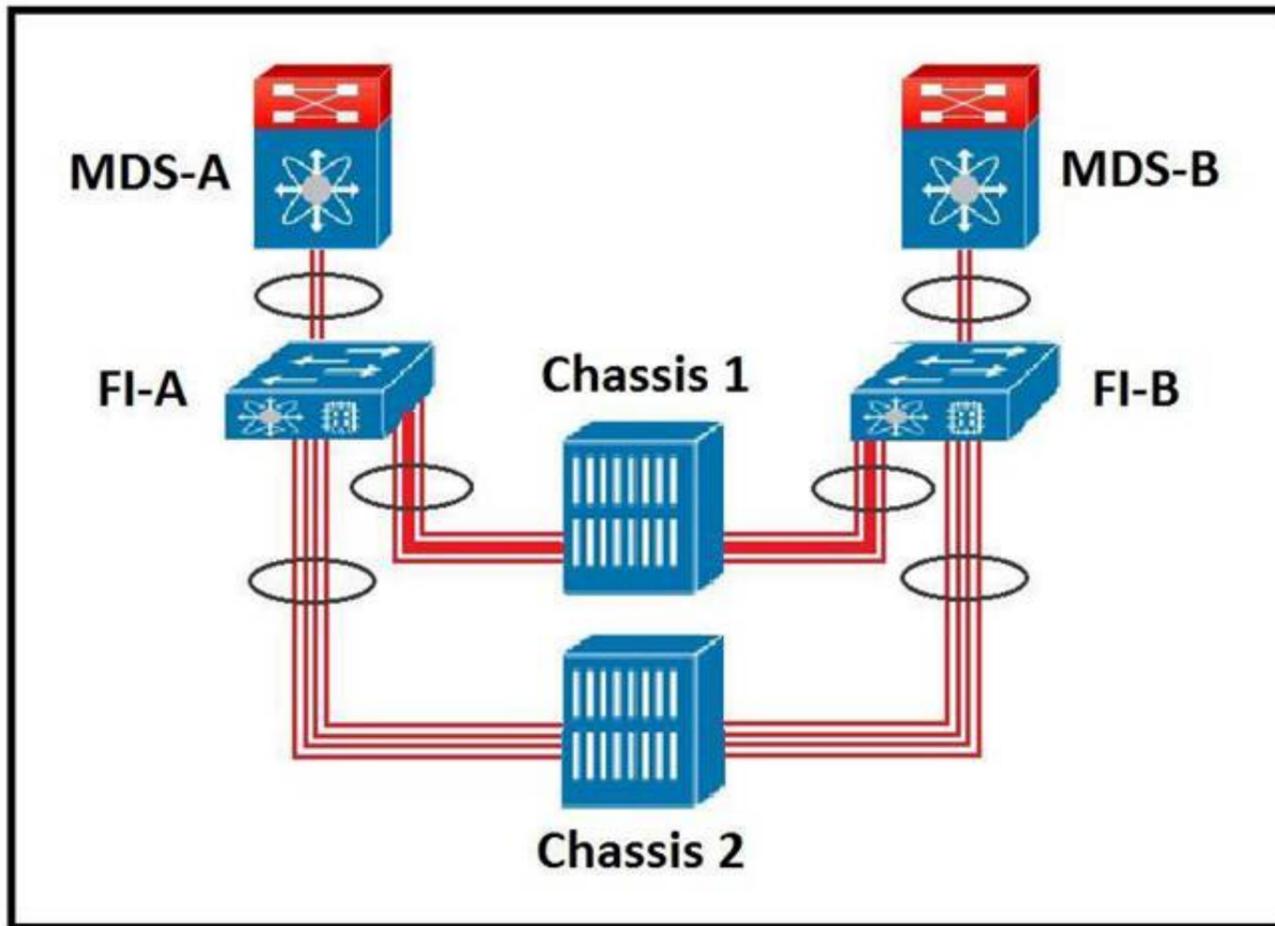
- A. BGP ECMP

- B. Layer 4 to Layer 7 device package
- C. inline load-balancing device
- D. ITD

Answer: B

NEW QUESTION 53

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 57

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 59

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 61

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 64

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