

# 300-610<sup>Q&As</sup>

Designing Cisco Data Center Infrastructure (DCID)

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### QUESTION 1

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.

Correct Answer: A

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5\\_0/configuration/guides/fabric/nxos/cli\\_fabric/fspf.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/fabric/nxos/cli_fabric/fspf.html)

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### QUESTION 2

An engineer deploys VMware ESXi hypervisor on blade servers. The virtual networking is managed by Cisco Nexus 1000V Series Switches.

Which configuration aligns with Cisco recommended practices for providing high availability and a maximum throughput to the VMware ESXi hosts?

- A. dual vNICs with static EtherChannel link aggregation
- B. dual vNICs with hardware fabric failover on the fabric interconnects
- C. dual vNICs with MAC pinning link aggregation
- D. dual vNICs with LACP link aggregation

Correct Answer: D

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### QUESTION 3

DRAG DROP

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

Select and Place:

- 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**

Correct Answer:

**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.

Reference: <https://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/10591-77.html>

**QUESTION 4**

DRAG DROP

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.

Select and Place:

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.

Correct Answer:

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

### QUESTION 5

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

Correct Answer: C

### QUESTION 6

A network architect designs a high-availability architecture for the Cisco UCS Fabric Interconnects that are installed in a data center. The architecture must support clustering and redundancy. Which architecture meets these requirements?

- A. dual connections from port L1 to L1 and one connection from port L1 to L1 with twinax cables
- B. dual connections from port L1 to L2 and one connection from port L2 to L1 with twinax cables
- C. dual connections from port L1 to L2 and one connection from port L2 to L1 with Ethernet cables
- D. dual connections from port L1 to L1 and one connection from port L2 to L2 with Ethernet cables

Correct Answer: D

Reference: [https://subscription.packtpub.com/book/networking\\_and\\_servers/9781782170662/10/ch10l1sec92/configuring-high-availability-clustering](https://subscription.packtpub.com/book/networking_and_servers/9781782170662/10/ch10l1sec92/configuring-high-availability-clustering)

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### QUESTION 7

A network architect designs the iSCSI-based storage area network solution. The iSCSI datastore must be designed with high availability, minimal downtime, and no single point of failure. The requirement is to fail over I/O to alternate paths

based on SCSI sense codes without reliance on network failures.

Which feature must be deployed to meet these requirements?

- A. hardware-based flow control
- B. port security
- C. iSCSI multipath
- D. NIC teaming

Correct Answer: C

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### 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

Correct Answer: CE

Reference: <https://en.wikipedia.org/wiki/ISCSI>

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**QUESTION 9**

DRAG DROP

Drag and drop the SAN components from the left onto the correct design considerations on the right.

Select and Place:

fabric logins	used to logically separate a SAN fabric
ISL	must be considered for the end-to-end oversubscription ratio
VSAN	these exchanges increase as a result of server virtualization
zone	must be considered when implementing access control

Correct Answer:

	VSAN
	ISL
	fabric logins
	zone

**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

Correct Answer: C

Reference: <https://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-manager/116188-configure-fcoe-00.html#anc11>

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#### QUESTION 11

A cloud service provider is managing day-2 operations of over 200 blade servers installed in the Cisco UCS environment. This pool of network resources is providing virtual networks to their customers. To successfully operate this environment, frequent changes to vNICs and other operational policies are required across multiple UCS domains. The operations team must streamline these repetitive tasks. Which orchestration tool must be used to meet this requirement?

- A. Cisco ACI Multisite Orchestrator
- B. Cisco DNA Center
- C. Cisco UCS Director
- D. Cisco UCS Manager

Correct Answer: A

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#### QUESTION 12

An engineer is designing a Cisco Nexus 7000 Series disaster recovery site using the data center interconnect solution to provide gateway redundancy and needs to ensure that devices use gateways in their own data centers. Which design approach should be used to accomplish this goal?

- A. CFS localized to its own data center
- B. vPC localized to its own data center
- C. FHRP localized to its own data center
- D. STP localized to its own data center

Correct Answer: C

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#### QUESTION 13

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

- A. Python
- B. Ansible



- C. Puppet
- D. Chef

Correct Answer: B

**QUESTION 14**

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

Correct Answer: C

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/lisp/configuration/guide/b\\_NX-OS\\_LISP\\_Configuration\\_Guide/b\\_NX-OS\\_LISP\\_Configuration\\_Guide\\_chapter\\_010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/lisp/configuration/guide/b_NX-OS_LISP_Configuration_Guide/b_NX-OS_LISP_Configuration_Guide_chapter_010.html)

**QUESTION 15**

DRAG DROP

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.

Select and Place:

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

Correct Answer:



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

Reference: [https://www.cisco.com/c/en/us/td/docs/ios/12\\_0s/feature/guide/fs\\_bfd.html#wp1238898](https://www.cisco.com/c/en/us/td/docs/ios/12_0s/feature/guide/fs_bfd.html#wp1238898)

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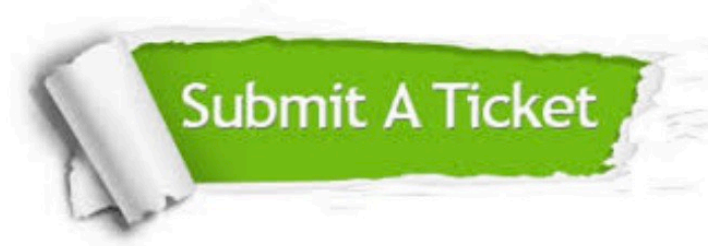
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