



300-610^{Q&As}

Designing Cisco Data Center Infrastructure (DCID)

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QUESTION 1

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 2

A client in a commercial building installs a Cisco blade server in the multitenant Cisco UCS blade infrastructure. To cut operating costs, the client's data center is shared with other organizations. The client asks an engineer to prevent third parties from accessing their equipment and from accessing BIOS-related information when booting a server.

Which two policies must be used to meet these requirements? (Choose two.)

- A. post error pause
- B. CDN control
- C. ASPM support
- D. front panel lockout
- E. quiet boot

Correct Answer: DE

Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Server-Mgmt/3-2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_2_chapter_01110.html

QUESTION 3

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

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



Correct Answer: D

Reference: <https://netcraftsmen.com/spanning-layer-2-between-data-centers/>

QUESTION 4

Which two types of service profile templates does Cisco UCS support? (Choose two.)

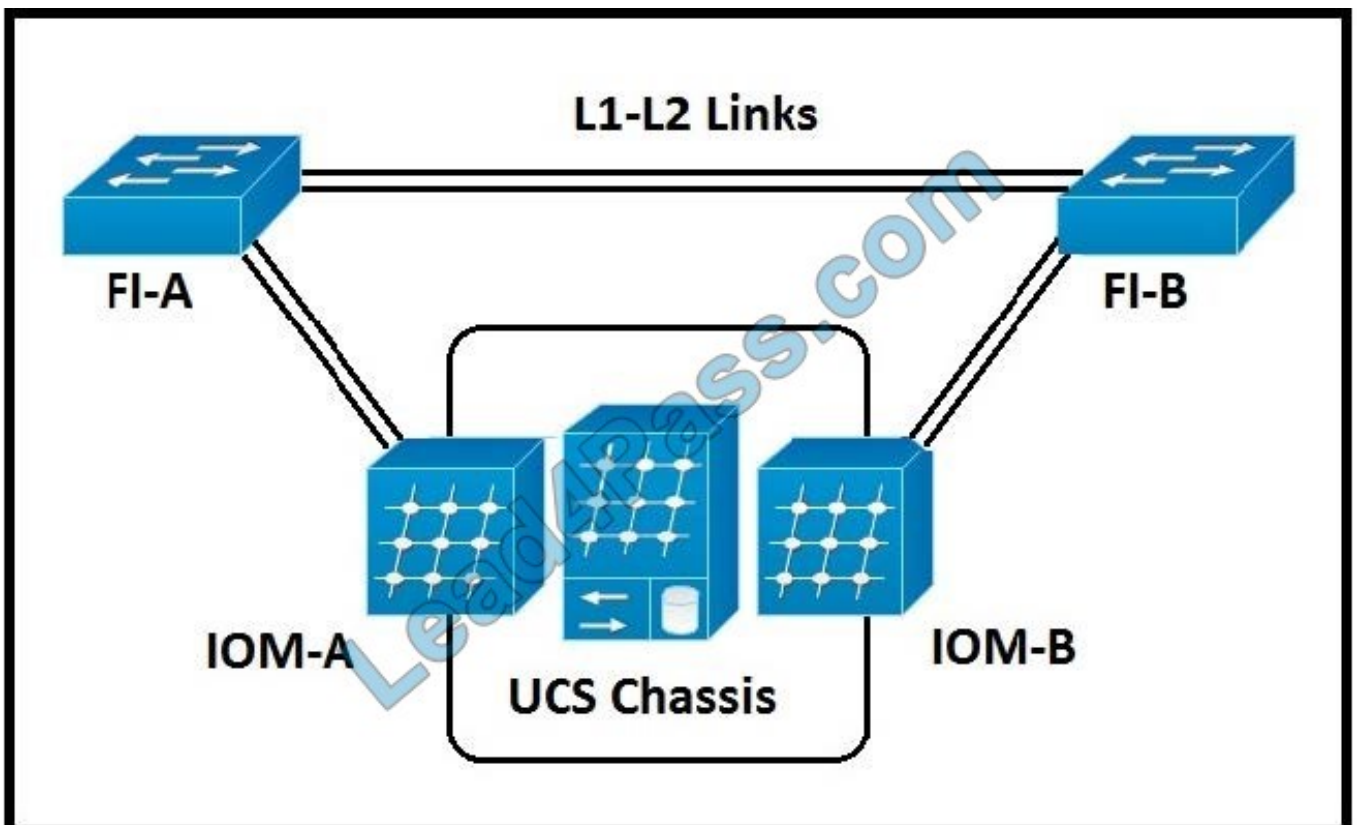
- A. initial
- B. permanent
- C. updating
- D. temporary
- E. connected

Correct Answer: AC

Reference: https://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/141/UCSM_GUI_Configuration_Guide_141_chapter28.html#concept_C9D27CE2AA1245EA976DAA79F5BC6

QUESTION 5

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.

Correct Answer: A

QUESTION 6

An engineer must interconnect two geographically separated data centers. The service provider offers a Layer 2 Metro Ethernet link. The strict security policy requires that the information that is shared between two sites must be sent encrypted. The application deployed between two sites requires a line-rate throughput regardless of the packet size and speed.

Which solution meets these requirements?

- A. L2TPv2
- B. IPsec
- C. MACsec
- D. L2TPv3

Correct Answer: C

QUESTION 7

An engineer designs a Cisco UCS solution that must provide guaranteed and deterministic bandwidth to a specific server in the environment. The solution must apply to network and storage traffic of C-Series and B-Series servers. Which solution should be included to meet these requirements?

- A. Pin the vNICs and the vHBAs of the service profile to dedicated uplink ports.
- B. Pin the IOM ports of the service profile to dedicated server ports.
- C. Pin the server ports of the service profile to dedicated uplink ports.
- D. Pin the vNICs and vHBAs of the service profile to dedicated server ports.

Correct Answer: C

Reference: https://www.cisco.com/c/dam/global/en_uk/products/servers-unified-computing/CiscoUCSSolutionOverviewUKIWeb.pdf



QUESTION 8

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.

Correct Answer: CD

Reference: https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/cgr1000/ios/software/15_4_1_cg/vrf_cgr1000.html

QUESTION 9

An engineer configured the OSPF protocol in the vPC topology. During the catastrophic failure of one of the vPC member switches, the traffic was routed to a black hole. This route was caused by the long convergence time caused by the delay of the vPC member switch reboot. After the failure, the engineer rebooted both switches, but the secondary switch powered on before the primary one. It caused all the vPCs to be shut down due to consistency-check violations.

Which two features must be used to prevent these situations from happening in the future? (Choose two.)

- A. peer-gateway
- B. ip arp synchronize
- C. delay restore
- D. auto-recovery
- E. system priority

Correct Answer: CD

QUESTION 10

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

Correct Answer: B



Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI_Best_Practices/b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_0110.html

QUESTION 11

Which pools are used when a vNIC template is created in Cisco UCS Manager?

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

Correct Answer: C

Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/3-1/b_UCSM_Network_Mgmt_Guide_3_1/b_UCSM_Network_Mgmt_Guide_3_1_chapter_0111.html

QUESTION 12

An engineer is designing a disaster recovery solution. In the event of a node failure, the solution should either direct all of the traffic to another node, or load-balance the traffic across the remaining nodes. Which solution should be implemented in the design?

- A. active/active
- B. cold standby
- C. active/passive
- D. warm standby

Correct Answer: A

QUESTION 13

An engineer is experiencing performance issues on a Cisco UCS blade server. The B-Series blade server contains four CPUs, most of which are idle. The engineer notices that the CPU is suffering from too many requests sent by the NIC. Additionally, the number of queues appears to be insufficient and only a single CPU is processing the network traffic.

Which policy must be used to alleviate these issues?

- A. LAN connectivity
- B. dynamic vNIC connection
- C. Ethernet adapter
- D. vNIC placement



Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Server-Mgmt/3-1/b_Cisco_UCS_Manager_Server_Mgmt_Guide_3_1/server_related_policies.html

QUESTION 14

An engineer must connect an existing Cisco UCS Fabric Interconnect to an IP-based storage array. The connection must be a port channel made directly between the fabric interconnect expansion module and the storage array. The engineer must also consider that the environment is running FCoE for storage and uses QoS to prioritize traffic.

Which port type should be used to meet these requirements?

- A. network
- B. uplink
- C. server
- D. appliance

Correct Answer: B

QUESTION 15

A network design must include a solution to run CLI commands remotely on Cisco Nexus 9000 Series Switches. The customer's security policy requires secure login credentials and an encrypted underlying transport. The command output will be processed using tools that support XML or JSON encoding.

Which two components should be included in the design? (Choose two.)

- A. NX-API
- B. HTTPS
- C. HTTP
- D. Bash shell
- E. SSH

Correct Answer: AB

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide/b_Cisco_Nexus_9000_Series_NXOS_Programmability_Configuration_Guide_chapter_0101.html



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