

300-610^{Q&As}

Designing Cisco Data Center Infrastructure (DCID)

Pass Cisco 300-610 Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

<https://www.pass2lead.com/300-610.html>

100% Passing Guarantee
100% Money Back Assurance

Following Questions and Answers are all new published by Cisco
Official Exam Center

-  **Instant Download** After Purchase
-  **100% Money Back** Guarantee
-  **365 Days** Free Update
-  **800,000+** Satisfied Customers



QUESTION 1

A company plans to implement high availability between the iSCSI host and the Fibre Channel target. Which solution must the company implement to recover from a failure of a host NIC. MDS IP storage port or Fibre Channel target port?

- A. Implement HSRP on the MDS IP storage ports
- B. Set up IP storage ports to export the two Fibre Channel target ports
- C. Map the Fibre Channel target ports to one IP storage port
- D. Configure FCoE between the host NICs and MDS ports

Correct Answer: C

QUESTION 2

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

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/7-x/programmability/guide/b_Cisco_Nexus_9000_Series_NX-OS_Programmability_Guide_7x/b_Cisco_Nexus_9000_Series_NXOS_Programmability_Guide_7x_chapter_010010.html

QUESTION 3

A engineer wants to eliminate the manual process of checking the system hardware and firmware against a specified hardware compatibility tool. The tool must be able to manage an extensive list of devices including cisco HyperFlex, MDS, and Nexus switches. The tool must manage hardware in multiple data centers so it should be deployed on public cloud infrastructure.

Which tool meets these requirements?

- A. Cisco Intersight
- B. Cisco UCS Director
- C. Cisco Data Center Network Manager

D. Cisco tetration

Correct Answer: A

QUESTION 4

An engineer must integrate Layer 4 to Layer 7 services within Cisco ACI Fabric. The main requirement is to have a single point of configuration for network elements and firewall policies. Which action meets these requirements?

- A. Define the service graph model as network policy mode.
- B. Deploy the firewalls in routed mode with PBR.
- C. Deploy the firewalls in transparent mode.
- D. Define the service graph model as service policy mode.

Correct Answer: D

QUESTION 5

A company purchased a Cisco UCS system with four 5108 Chassis populated with UCS B-Series servers. The environment consists of nine Cisco HyperFlex rack servers. An engineer must provision virtual machines using an orchestration tool to optimize overall deployment time.

Which orchestration must be used to meet this requirement?

- A. Cisco Intersight
- B. Cisco DNA Center
- C. Cisco AppDynamic
- D. Cisco Network Assurance

Correct Answer: A

QUESTION 6

An engineer must connect a Cisco UCS B-Series based system to an existing large storage area network fabric. The deployment must support hardware-based load balancing, prevent Fibre Channel domain ID exhaustion, and enable all blade servers to be in the same VSAN.

Which set of actions meets the requirements?

- A. Enable Fibre Channel end-host mode on the fabric interconnect and NPIV mode on the SAN switch. Create an F Port channel that faces the fabric interconnect.

- B. Connect the fabric interconnect to the E Ports on the SAN switch. Create a SAN port channel.
- C. Configure Ethernet end-host automatic load balancing on the fabric interconnect. Set NL port mode on the SAN switch.
- D. Place all interfaces that face the fabric interconnects in the same VSAN. Disable zoning for the VSAN.

Correct Answer: A

QUESTION 7

An engineer manages a multi-organization Cisco UCS fabric and requires a solution to streamline the daily operational tasks of creating service profile templates. The operations team is unfamiliar with programming languages and must have a solution that is written in an easy-to-read and declarative manner. The operations team also requires the tool to be flexible enough to support the creation of custom modules. The development team is familiar with the Python programming language and can develop these custom modules for the operations team.

Which tool meets these requirements?

- A. Ansible
- B. Puppet
- C. CFEngine
- D. Chef

Correct Answer: A

QUESTION 8

A customer is implementing a business continuity solution for the current data centers. The new location must mitigate the impact of a disaster in any existing data centers by providing an acceptable level of service. The solution must support:

1. fully segregated Layer 2 and 3 fault domains
2. low or no human intervention for service restoration
3. medium to high RPO/RTO for a subset of applications
- 4.

synchronous storage replication for application data

Which disaster recovery solution must the customer select to meet these requirements?

- A. identical infrastructure facility ready to provide service
- B. mirrored inactive infrastructure facility with fully stretched resources
- C. cold infrastructure facility with basic infrastructure
- D. partially equipped infrastructure facility for on-demand activation

Correct Answer: D

QUESTION 9

A network consultant reviews the requirements for the Storage Area Network (SAN) design. The proposed solution must offer a very efficient port usage and eliminate the need for a separate physical layer of switches and their associated ISLs. The design is not expected to require future expansion.

Which SAN topology must be used to meet these requirements?

- A. core-edge
- B. collapsed-core
- C. core-distribution-access
- D. edge-core-edge

Correct Answer: B

QUESTION 10

An engineer must build a VXLAN flood-and-learned network. The customer requires the solution to be based on the IETF documented practice in RFC 7348. The solution must use broadcast, unknown unicast, and multicast (BUM) and include the efficient BUM and short BUM replication modes that use only shared trees.

Which technology meets these requirements?

- A. MVPN
- B. Bidirectional PIM
- C. PIM SSM
- D. PIM sparse mode

Correct Answer: D

QUESTION 11

A network engineer designs a Cisco Nexus data center network for a client-server farm using a pair of Nexus 9000 Series. Switches in a vPC setup. Each server connects with two interfaces to both Nexus switches. The Nexus switches must always initiate the negotiation with the server.

Which feature should be used in this design to ensure traffic is forwarded from the server to the data center network?

- A. LACP mode auto
- B. LACP mode active
- C. PAgP mode desirable
- D. PAgp mode auto

Correct Answer: B

Servers cannot support PAgP

QUESTION 12

A company must integrate an iSCSI storage solution into its existing production environment. The new iSCSI network must be accessible from a limited set of network segments. The client devices follow a strict network security policy to access critical data from the storage array.

Which design steps must be used to meet these requirements?

- A. Place the iSCSI storage appliance on the core switch to isolate it in a private VLAN. Configure a token-based authentication between the storage array and the clients.
- B. Deploy the iSCSI storage appliance on the core switch in a separate VRF. Apply the session mutual authentication (CHAP) method between the targets and initiators.
- C. Connect the iSCSI storage appliance on the core switch using a dedicated port. Apply the session mutual authentication (CHAP) method between the targets and initiators.
- D. Connect the iSCSI storage appliance on the core switch in vPC mode. Configure a token-based authentication between the storage array and the clients.

Correct Answer: B

QUESTION 13

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

Correct Answer: B

Reference:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/DCNM_OLH/SAN_Client/fm_help/fmc.html#34479

QUESTION 14

An engineer must use OTV for layer 2 connectivity between data centers to support virtual machine between the customer sites. To support this requirement, the engineer must ensure the existence of the same default gateway on both sites. Additionally, the operations team report high bandwidth utilization on site A and wants to optimize the outbound traffic flows to use a DC exit point.

Which feature must be used to meet these requirement?

- A. FHRP filter
- B. Control group
- C. Data group
- D. ARP filter

Correct Answer: A

https://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/guide_c07-728315.pdf

Another capability introduced by OTV is to filter First Hop Redundancy Protocol (FHRP - Hot Standby Router Protocol [HSRP], Virtual Router Redundancy Protocol [VRRP], and so on) messages across the logical overlay. This filtering is required to allow for the existence of the same default gateway in different locations and optimize the outbound traffic flows

QUESTION 15

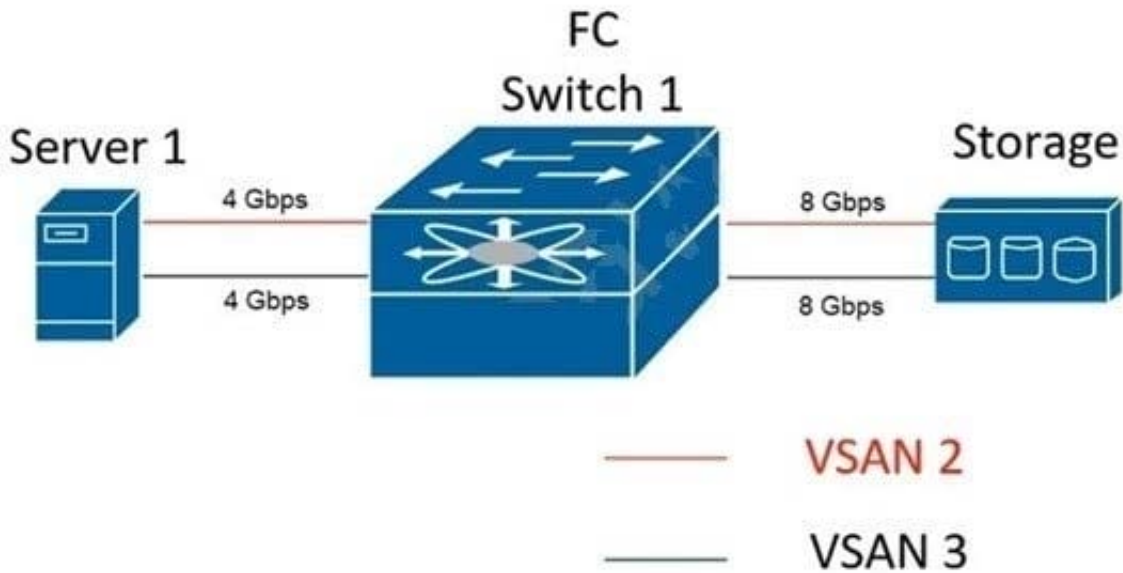
A company has several data centers with hundreds of Cisco UCS blade chassis. A network consultant plans to active Cisco Discovery Protocol to the servers to facilitate Layer 1 troubleshooting. For security reasons, the company wants to restrict the servers from sending different MAC addresses to the fabric interconnect after the MAC address from the first packet is learned. Which two policies be modified to support this design? (Choose two.)

- A. Pin Group Policy
- B. Network Control Policy
- C. vNIC Policy
- D. vNIC Template Policy

E. Ethernet Adapter

Correct Answer: BD

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Network-Mgmt/4-0/b_UCSM_Network_Mgmt_Guide_4_0/b_UCSM_Network_Mgmt_Guide_4_0_chapter_01_010.html
<https://jeremywaldrop.wordpress.com/2010/05/03/how-to-enable-cdp-on-cisco-ucs-vnics/>



[300-610 Practice Test](#)

[300-610 Study Guide](#)

[300-610 Braindumps](#)