300-610^Q&As

Designing Cisco Data Center Infrastructure (DCID)

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QUESTION 1

An engineer finishes the initial set up of a VXLAN EVPN network. The engineer is asked to plan for connectivity that supports redundancy and extends multiple virtual routing and forwarding domains. The requirement is to use the same default gateway addressing across all leaf switches that belong to the VXLAN network.

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

A. spanning tree protocol

B. VRF-lite

C. Distributed anycast gateway

D. DC interconnect

E. Inter-site network

Correct Answer: CD

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9300/software/release/16-12/configuration_guide/vxlan/b_16 12_bgp_evpn_vxlan_9300_cg/configuring_evpn_vxlan_ anycast_gateway.html
https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/white-paper-c11-739942.html

QUESTION 2

The end users report issues with datastore reachability between the newly installed virtual machines (VMs) and the storage array. The VMs are deployed on a Cisco C-Series server, directly connected with Cisco Nexus 5672UP switches over FCoE VLAN. The data traffic on VLAN 99, which is designated as a native VLAN, reaches its default gateway, but FCoE VLAN 99 fails to access the datastore.

Which action resolves the problem?

A. Implement FCoE traffic on VLAN 10 and data traffic on VLAN 99.

B. Implement host-facing FCoE ports as spanning-tree port type edge.

C. Configure the FCoE VLAN in the VSAN database before including it in the trunk port.

D. Configure the FCoE VLAN traffic on a separate interface from any other VLANs that traverse the network.

Correct Answer: A

QUESTION 3

A company runs mission-critical infrastructure in a single data center. Due to business growth It plans to open more data center in the coming years. A network engineer is asked to recommend a network technology for data center interconnection that allows scalability and seamless VM mobility while providing maximum security and fault isolation between data center. Which technology must be used to meet these requirements?

A. Cloudsec

B. UDLD

C. Trustsec

D. OTV

Correct Answer: D

QUESTION 4

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.

Correct Answer: D

Two separate DSCP values must be configured, one for control frames another one for data frames.

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/ipsvc/nxos/ipsvc/cfcip.html

QUESTION 5

Refer to the exhibit.

It is critical that you enable the filtering of FHRP messages across the overlay because it allows the use of the same FHRP configuration in different sites. The end result is that the same default gateway is available, and it is characterized by the same virtual IP and virtual MAC addresses in each data center. Thus the outbound traffic will be able to follow the optimal and shortest path, always using the local default gateway.

The appendix has a sample configuration that can be copied into your Nexus 7000 Series in order to utilize this feature.

Server 1 fails to connect to the storage array over the Storage Area Network (SAN) of the Cisco MDS 9000 Series Switch. The requirements are to redesign the storage network and keep these considerations in mind:

1.

The traffic from each of the server must be redundant and isolated.

2.

The design must tolerate hardware and software failures and upgrades of SAN fabric devices. Which action must be taken to meet these requirements?

A. Enable NPV and F-Port-channel on ports that face Server 1 on the Fibre Channel switch to create redundant paths.

B. Create a SAN port channel that faces the storage device to sustain a link failure.

C. Add an additional supervisor to the Fibre Channel switch to support nondisruptive upgrades.

D. Place an additional Fibre Channel switch to create two physically independent storage fabrics.

Correct Answer: A

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