300-610^{Q&As}

Designing Cisco Data Center Infrastructure (DCID)

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QUESTION 1

An engineer needs to design a disaster recovery solution for a Cisco ACI multisite network that must provide seamless IP addressing across sites and support Layer 2 adjacency. Which two components should be used to meet this goal? (Choose two.)

A. a stretched bridge domain and a local subnet

B. a localized bridge domain, a subnet, and an endpoint group

C. a localized Layer 2 broadcast domain

D. localized Layer 2 broadcast flooding

E. a stretched bridge domain, a subnet, and an endpoint group

Correct Answer: AE

QUESTION 2

Which two configuration methods can be used to deploy QoS to Cisco MDS Series switches? (Choose two.)

A. zone-based QoS

B. multiple QoS policies that match individual devices

C. VSAN-based QoS

D. FCoE VLAN-based QoS

E. multiple QoS policies that match multiple devices

Correct Answer: AC

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/7_3/configuration/qos/cisco_mds90 00_qos_config_guide/configuring_qos.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

A storage administrator experiences a slow file transfer rate when archiving backup files on a tape library drive. The tape drive is connected directly to the Cisco Nexus 7009 switches. The file transfer rate gradually goes down with files that are over 100 GB in size. The requirement is for the file transfer rate to be consistent during the transfer window. Which two solutions meet this requirement? (Choose two.)

A. Compress the files to reduce the data size before copying to the tape drive.

B. Increase the tape drive disk size to increase the write speed.

C. Connect the tape drive with two 10G interfaces in vPC mode.

D. Perform a file transfer to the tape drive after business hours.

E. Split the files before copying them to the tape drive.

Correct Answer: AE

QUESTION 5

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

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/unified-computing/whitepaper_c11-701962.html

QUESTION 6

An engineer needs an orchestration and monitoring tool that should be used for managing the storage networks and VXLAN fabrics. The tool should also allow support built-in dashboard and real-time health summary for managed devices. Which tool meets these requirements?

A. Cisco Intersight

B. Ansible

C. Puppet

D. Cisco DCNM

Correct Answer: D

QUESTION 7

An engineer must interconnect two geographically separated data centers. The service provide 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 sites requires a line-rate throughput regardless of the packet size and speed. Which solution meets these requirements?

A. IPsec

B. MACsec

C. L2TPv2

D. L2TPv3

Correct Answer: B

https://www.cisco.com/c/dam/en/us/td/docs/solutions/Enterprise/Security/MACsec/WP-High-Speed-WAN-Encrypt-MACsec.pdf

QUESTION 8

Refer to the exhibit.

```
Port-Group 1
  Total bandwidth is 12.8 Gbps

  Total shared bandwidth is 0.8 Gbps

  Allocated dedicated bandwidth is 12.0 Gbps
--------------------------------------------------------------
  Interfaces in the Port-Group        B2B Credit  Bandwidth  Rate Mode
                                        Buffers     (Gbps)
--------------------------------------------------------------
  fc8/1                                   16         4.0      dedicated

  fc8/2                                   16         4.0      dedicated

  fc8/3                                   16         4.0      dedicated

  fc8/4                                   16         4.0      shared

  fc8/5                                   16         4.0      shared

  fc8/6                                   16         4.0      shared
```

A Cisco engineer is configuring a customer scenario with 2 x MDS 9000 switches 24 x UCS B200M6 blade servers. UCS 64S4 Fabric Interconnect in end-host mode and 3 x UCS 5108 server chassis with 2408 Fabric Extenders The engineer installs 6 x SQL Server 2019 on all blades and then notices that there are read and write latencies

What is the best way to balance the utilization across the shared ports?

A. Enable "Only dedicate rate mode

B. Change the assigned speed to 8 Gbps Auto.

C. Set 4 Gbps performance buffers

D. Disable restrictions on oversubscription ratios

Correct Answer: D

Reference:

https://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/rel_3_x/configuration/guides/fm_3_2/gen2.html#wp1392649

When restrictions on oversubscription ratios are disabled, the bandwidth allocation among the shared ports is proportionate to the configured speed. (If the configured speed is auto, then bandwidth is allocated assuming a speed of 4 Gbps.)

For example, if you have three shared ports configured at 1, 2, and 4 Gbps, then the allocated bandwidth ratio is 1:2:4. In Cisco SAN-OS Release 3.0 and later (or when restrictions on oversubscription ratios are enabled), port bandwidths are

allocated in equal proportions, regardless of port speed, so, the bandwidth allocation for the same three ports mentioned in the example would be 1:1:1.

QUESTION 9

A network engineer must perform a VMM integration for the VMWare vCenter platform with the Cisco ACI Fabric. The vCenter is already installed in one of the rack servers connected to ACI leaf switches in a vPC mode. Which type of management network must be used to integrate vCenter with ACI?

A. ARC infra

B. VLAN infra

C. out-of-band management

D. In-band management

Correct Answer: C

QUESTION 10

Which protocol prevents fiber failures from causing a Layer 2 loop in a dark fiber DCI?

A. BFD

B. UDLD

C. MCP

D. LLDP

Correct Answer: B

DCI: DataCenter Interconnect (not ACI - which is another Cisco product)

Dark Fiber: is the marketing term for a direct fiber cable dug in the ground between two DCs.

UDLD is Uni-directional Link Detection protocol that is used to detect if there is a problem with rx/tx in the fiber strands that may cause switching loop.

QUESTION 11

Refer to the exhibit.

```
class-map class_af11
 match dscp af11
 exit
policy-map type qos policy_af11
 class class_af11
 set dscp 14
 police cir 10 ms bc 1 mbs conform transmit violate drop
```

An engineer is configuring a QoS policy with these requirements

1.

Match-all AF11 traffic and set it to a DSCP value of 14.

2.

The committed rate must be 10 Mbps with a committed burst rate of 1000 ms

3.

Drop any AF11 traffic that violates these settings.

4.

Any traffic other than af11 must have a DSCP value of 0

The given class-map configuration already exists.

Which solution must the engineer use to meet the requirements?

A. policy-map type qos policy_af11 class class-other match dscp 0

B. policy-map type qos policy_af11 class class-af11 match other set dscp 0

C. policy-map type qos policy_af11 class class-default set dscp 0

D. policy-map type qos policy_af11 class class_af11 set dscp 0

Correct Answer: C

QUESTION 12

An engineer is designing a Cisco 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. FHRP localized to its own data center.

B. STP localized to Its own data center

C. CFS localized to Its own data center

D. vPC localized to Its own data center

Correct Answer: A

QUESTION 13

An engineer must interconnect customer data centers by using a 10-Gbps, unicast-only, Layer 3 circuit. The requirement is to stretch the Layer 2 connection over the tunnel, isolate STP traffic, and create more than two million logical network segments.

Which solution meets these requirements?

A. IPsec over GRE

B. OTV

C. dark fiber

D. VXLANEVPN

Correct Answer: B

QUESTION 14

A customer needs to deploy a three-tier network architecture that will consist of web, and other business-critical applications. The solution will include Cisco UCS 6324 Fabric interconnects managing B and C Series servers The Fabric interconnects will be connected to the cisco nexus 7706 series switch for network access. A storage array will be directly connected to the UCS deployment.

Which type must be used to meet these requirements?

A. UCS Interconnect in Ethernet end-host mode UCS Interconnect in Fibre Channel switching mode Fabric Interconnects uplinked to the Nexus device using an LACP port-channel in active mode

B. UCS Interconnect in Ethernet switching mode UCS interconnect to Fibre Channel switching mode Fabric Interconnect uplinked to the Nexus device using an LACP port-channel in passive mode

C. UCS Interconnect in Ethernet end-host mode UCS Interconnect in Fibre Channel end-host mode Fabric Interconnect uplinked to me Nexus device using an LACP port-channel in passive mode

D. UCS interconnect in Ethernet switching mode UCS interconnect in Fibre Channel end-host mode Fabric Interconnects uplinked to the Nexus device using an LACP port-channel in active mode

Correct Answer: D

FC must be in switching mode for Direct Attached Storage.

QUESTION 15

An engineer must configure an interface for managing and orchestrating a Cisco Nexus device. The interface must be operational if the data and control planes crash, support IPv4 and IPv6 addressing, and have been access to its own VRF instance.

Which interface should be used to meet these requirements?

A. management interface

B. lookup

C. interface VLAN

D. Physical interface

Correct Answer: A

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