300-610^{Q&As}

Designing Cisco Data Center Infrastructure (DCID)

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QUESTION 1

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 2

A Cisco engineer is configuring a customer design scenario that consists of Cisco Nexus 7000 series switches. The remote management access of all the Layer 2 switches is configured on a specific VLAN 12, with subnet 10.0.12.0/24. The route goes through a firewall that has rules to restrict traffic to/from VLAN 12. The engineer is adding a Nexus 3064 with the primary use as a core router for the VLANs. How must the engineer specify the management VRF to use VLAN 12 for management so it is on the same subnet as the rest of the LAN switches?

A. The L3 SVI on the switch must not accept management traffic.

B. Configure VLAN 12 on the switch, and add it to the mgmt VRF.

C. Plug the physical management interface into an access port on VLAN 12.

D. Create SVI, add management to a new VRF, and keep it in global
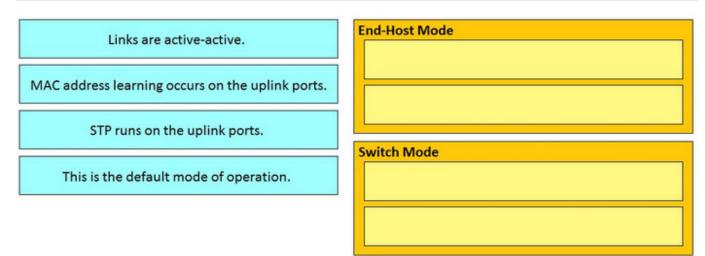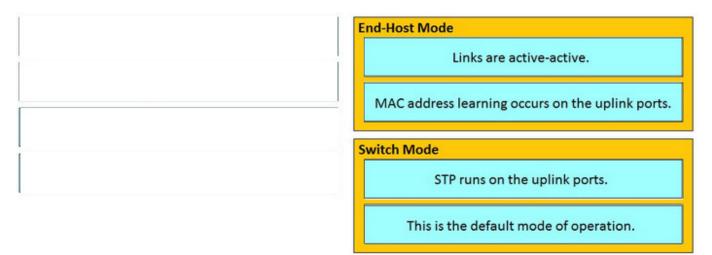
Correct Answer: B

QUESTION 3

DRAG DROP

Drag and drop the feature descriptions from the left onto the correct UCS Fabric Interconnect modes on the right.

Select and Place:

Links are active-active.	**End-Host Mode**
MAC address learning occurs on the uplink ports.	
STP runs on the uplink ports.	**Switch Mode**
This is the default mode of operation.	

Correct Answer:

	End-Host Mode
	Links are active-active.
	MAC address learning occurs on the uplink ports.
	Switch Mode
	STP runs on the uplink ports.
	This is the default mode of operation.

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

QUESTION 4

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.

ow or no human intervention for service restoration

3.

edium to high RPCVRTO 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 faculty for on-demand activation

Correct Answer: D

QUESTION 5

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 6

An engineer requires a solution that achieves Ethernet traffic forwarding on all available paths from the hosts to the Cisco Nexus Fabric Extender and from the Fabric Extenders to the Cisco Nexus 5000 Series Switches. The NIC teaming from the Fabric Extender to a server should use an LACP EtherChannel. Which solution should be implemented to meet these requirements?

A. Virtual Port Channel

B. Enhanced Virtual Port Channel

C. Virtual Port Channel Plus (vPC+)

D. Back-to-Back Virtual Port Channel

Correct Answer: B

QUESTION 7

A Cisco engineer is configuring MPLS VPN BGP at a customer site that is connected to the provider site by more than one path MPLS VPN BGP Local Convergence link protection is enabled. After the engineer installs the main forwarding path and the redundant backup path within the BGP, they assign a unique route distinguisher to each VRF table on all PE devices that serve as a backup to the link.

What is a prerequisite for this local convergence to work?

A. Interautonomous system option A (back-to-back VRF) is active.

B. BGP must support lossless switchover between operational paths

C. IP/GRE is enabled.

D. The system is performing a PE-CE link protection on both ends

Correct Answer: D

QUESTION 8

Which approach splits a pair of clustered fabric interconnects into two standalone devices?

A. Run the disable fips-mode command on each fabric interconnect.

B. Run the connect local-management command on each fabric interconnect.

C. Erase the configuration of both fabric interconnects.

D. Unplug the Layer 1 and Layer 2 interfaces between the devices.

Correct Answer: C

https://community.cisco.com/t5/unified-computing-system/break-fabric-interconnect-cluster-into-2-standalone-fabric/td-p/4123885

QUESTION 9

Which type of port should be used on a Cisco Nexus 7700 Switch for OOB management that uses Layer 3 and supports authentication and encryption?

A. management

B. console

C. Ethernet

D. CMP

Correct Answer: A

QUESTION 10

An engineer needs to configure multiple network devices using Ansible Device passwords must meet these requirements:

1.

be stored securely

2.

not be visible as plaintext

3.

be available to Ansible playbooks for executing scripts Which solution must the engineer choose?

A. Encrypt a password variable file using Ansible Vault.

B. Store the passwords within a Git repository Secrets Manager

C. Encrypt passwords as Ansible environment variables

D. Encrypt the passwords within the Ansible inventory file.

Correct Answer: A

QUESTION 11

A network engineer designs a virtual network in a Cisco UCS Manager. The traffic must be explicitly forwarded from the vNIC on the server to a specific uplink Ethernet port on the Cisco fabric interconnect. Also, the server vNIC must use the same uplink Ethernet port after reboot. Finally, the design requires a QoS policy for remote direct memory access over converged Ethernet (RoCE v2). Which set of design features meets these requirements?

A. vNIC pool and Silver priority

B. vNIC template and Gold priority

C. server VLAN pool and Gold priority

D. LAN pin group and Platinum priority

Correct Answer: D

QUESTION 12

What influences the number of ISLs that are required between Cisco MDS Series switches?

A. FCoE protocol

B. type of storage

C. end-to-end oversubscription ratio

D. N Port virtualization

Correct Answer: C

The number of ISLs required between Cisco MDS switches will depend on the desired end-to-end oversubscription ratio. The storage port oversubscription ratio from a single storage port to multiple servers can be used to help determine the number of ISLs needed for each edge-to-core connection.

Reference: https://www.cisco.com/c/en/us/products/collateral/storage-networking/mds-9700-series-multilayer-directors/white-paper-c11-729697.html

QUESTION 13

A company needs a solution to virtualize their legacy desktop computers. The solution must be highly resilient and able to withstand the loss of a data center site. Each compute node requires a minimum of 20 disk drives.

Which solution meets these requirements?

A. 1. thin client installed at each user\'s end station with a separate profile to retrieve sensitive data using the RDP protocol

2. solution based on Cisco HX220 compute nodes

B. 1. data center site with a strict security policy that provides access to users using a bespoke software client

2. solution based on Cisco HX240 compute nodes

C. 1. virtual desktop infrastructure solution installed in multiple data centers that are close to the end users

2. solution based on Cisco HX240 compute nodes

D. 1. dedicated virtual machine per hypervisors for each user in a centralized data center

2. solution based on Cisco HX220 compute nodes

Correct Answer: C

QUESTION 14

A customer needs a design for a new data center network that meets these requirements:

1.

Logically partition the environment into separate security domains.

2.

Cut costs related to purchasing additional equipment.

3.

Separate routing processes, TCAM, QoS tables, and data planes.

Which technology must be used?

A. VLAN

B. vPC

C. VDC

D. VRF

Correct Answer: C

for item 3 "Separate routing processes, TCAM, QoS tables, and data planes."

QUESTION 15

An engineer manages hundreds of Cisco Nexus Series and 9000 Series Switches that are installed at several data centers and wants to use one of the built-in automation tools of the Cisco NX-OS Guest Shell to automate daily activities. The engineer requires a tool that uses imperative language, has extensive support, and is object-oriented.

Which automation tool should be used to meet these requirements?

A. Phython

B. Bash

C. YAML

D. Perl

Correct Answer: A

Python is object-oriented and imperative language. YAML is declarative.

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