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To prepare for the Cisco 300-610 certification exam, candidates can take advantage of a range of study materials and resources, including online courses, books, and practice exams. Cisco offers a range of training and certification programs to help candidates prepare for the exam and enhance their knowledge and skills in data center infrastructure design.

Cisco 300-610 exam covers various topics that are essential for designing Cisco Data Center Infrastructure. These topics include the design of network infrastructure, computing infrastructure, storage infrastructure, automation, security, and application infrastructure. Therefore, passing 300-610 Exam requires a broad understanding of all these topics, and it is essential to prepare adequately before taking the exam.

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The 300-610 Exam covers a wide range of topics related to data center infrastructure design, such as data center architecture, storage networking, compute networking, and network services. 300-610 exam is designed to test the candidate's knowledge and skills in designing data center infrastructure that meets business and technical requirements, while also taking into account industry best practices and emerging technologies.

Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q325-Q330):

NEW QUESTION # 325
Which mode must be enabled on a Cisco UCS Fabric Interconnect to connect directly to a storage array?

- A. FC end-host mode
- B. NPV mode
- C. NPIV mode
- D. FC switching mode

Answer: D

Explanation:
Section: Storage Network Design

NEW QUESTION # 326
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. auto-recovery
- C. system priority
- D. ip arp synchronize
- E. delay restore

Answer: B,E

Explanation:
https://www.cisco.com/c/en/us/support/docs/switches/nexus-7000-series-switches/116187- configure-vpc-00.html
https://www.cisco.com/c/en/us/support/docs/ios-nx-os-software/nx-os-software/212589- understanding-vpc-election-process.html

Why do we need vPC Auo-Recovery?
There are two main reasons for this vPC enhancement:

- In a data center outage or power outage, both vPC peers that are comprised of Nexus 7000 switches are off. Occasionally, only one of the peers can be restored. Since the other Nexus 7000 is still off, the vPC peer-link and the vPC peer-keepalive link are also off. In this scenario, the vPC does not come on even for the Nexus 7000 which is already on. All vPC configurations have to be removed from the port-channel on that Nexus 7000 to cause the port-channel to work. When the other Nexus 7000 comes on, you have to again make configuration changes to include the vPC configuration for all the vPCs. In Release 5.0(2) and later, you can configure the **reload restore** command under the vPC domain configuration to address this problem.
- For some reason, the vPC peer-link goes off. Since the vPC peer-keepalive is still on, the vPC secondary peer device turns all its vPC member ports off due to dual-active detection. Hence all the traffic goes through the vPC primary switch. For some reason, the vPC primary switch also goes off. This switch problem black holes the traffic since the vPCs on the secondary peer device are still off because it detected dual-active detection before the vPC primary switch went off.

In Release 5.2(1) and later, the vPC auto-recovery feature merges these two enhancements.

vPC Delay Restore
After a vPC peer device reloads and comes back up, the routing protocol needs time to reconverge. The recovering vPCs leg may black-hole routed traffic from access to aggregation/core until uplink Layer 3 connectivity is reestablished.

vPC Delay Restore feature delays vPCs leg bring-up on the recovering vPC peer device. vPC Delay Restore allows for Layer 3 routing protocols to converge before allowing any traffic on vPC leg. This results in a more graceful restoration and zero packet loss during the recovery phase (traffic still get diverted on the alive vPC peer device). This feature is enabled by default with a vPC restoration default timer of 30 seconds. The timer can be tuned according to a specific Layer 3 convergence baseline from 1 to 3600 seconds.

NEW QUESTION # 327

A network engineer needs to design Layer 2 connectivity for a subnet between two data centers using VXLAN with Cisco Nexus switches. The engineer must ensure seamless host mobility and optimal first-hop routing. Which gateway MAC attribute must be synchronized across both data centers?

- A. VRRP
- B. multicast
- C. HSRP
- D. anycast

Answer: D

Explanation:
Cisco's VXLAN Anycast Gateway uses the same virtual MAC address on the IRB interfaces in both data centers. Synchronizing that Anycast MAC ensures that hosts in either site always see the same default-gateway MAC - preserving ARP entries during VM moves and providing optimal, local first-hop routing.

NEW QUESTION # 328

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

Answer:

Explanation:

Links are active-active.

MAC address learning occurs on the uplink ports.

STP runs on the uplink ports.

This is the default mode of operation.
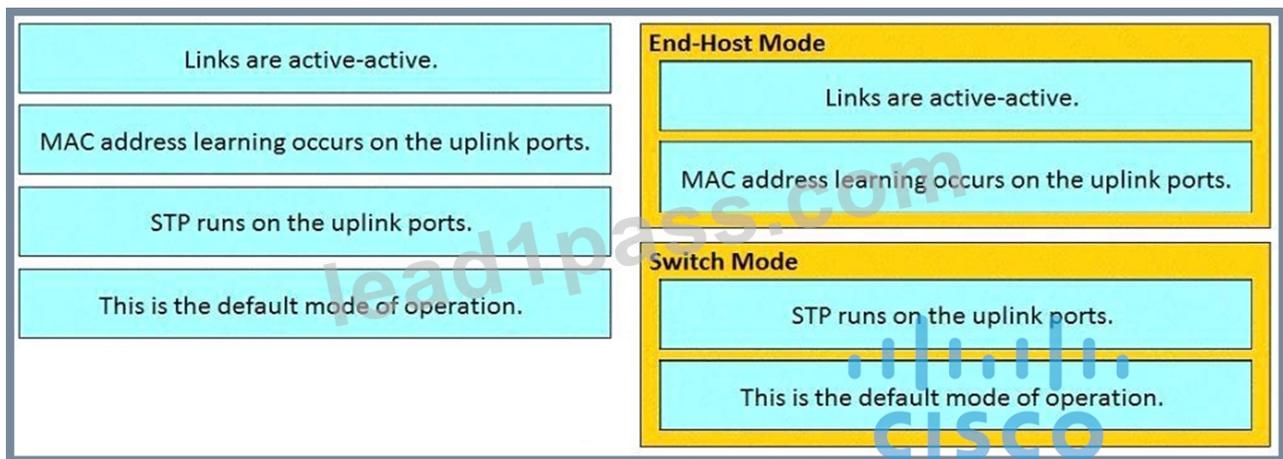
End-Host Mode

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

NEW QUESTION # 329

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. Inter-site network
- B. VRF-lite
- C. Distributed anycast gateway
- D. DC interconnect
- E. spanning tree protocol

Answer: C,D

Explanation:
Reference:
https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/white-paper-c11-739942.html

NEW QUESTION # 330

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