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Cisco 300-610 Exam comprises of various topics that are important in designing a data center infrastructure. 300-610 exam covers topics such as data center architecture, network design, storage network design, compute network design, and automation. These topics are important in ensuring that the designed data center network infrastructure is scalable, highly available, and secure.

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Cisco 300-610 Exam Certification Details:

Exam Name	Designing Cisco Data Center Infrastructure
Passing Score	Variable (750-850 / 1000 Approx.)
Exam Code	300-610 DCID
Recommended Training	Designing Cisco Data Center Infrastructure (DCID)
Sample Questions	Cisco 300-610 Sample Questions
Number of Questions	55-65
Exam Registration	PEARSON VUE
Exam Price	\$300 USD

Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q74-Q79):

NEW QUESTION # 74

What is a design consideration when implementing FSPF?

- A. FSPF runs only on F Ports.
- B. FSPF runs on a per-chassis basis.
- C. Routes are based on the distance vector protocol.
- **D. Routes are based on the domain ID.**

Answer: D

NEW QUESTION # 75

Which feature must be configured to connect a classical Ethernet network to a data center network so that the data center network appears to be one large switch.

- **A. EVPN**
- B. UDLN
- C. VPC+
- D. OSPF

Answer: A

Explanation:

Section: Network Design

NEW QUESTION # 76

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. ip arp synchronize
- **B. delay restore**
- C. system priority
- **D. auto-recovery**

- E. peer-gateway

Answer: B,D

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 Auto-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 # 77

Drag the appropriate from the left onto the current UDLD modes of operation on the right.

Uses STP if UDLD information times out.	Normal Mode <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
Detects when a port is stuck.	
Disables a port that has a high error rate.	
Allows a port that has a high error rate.	
	Aggressive Mode <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>

Answer:

Explanation:

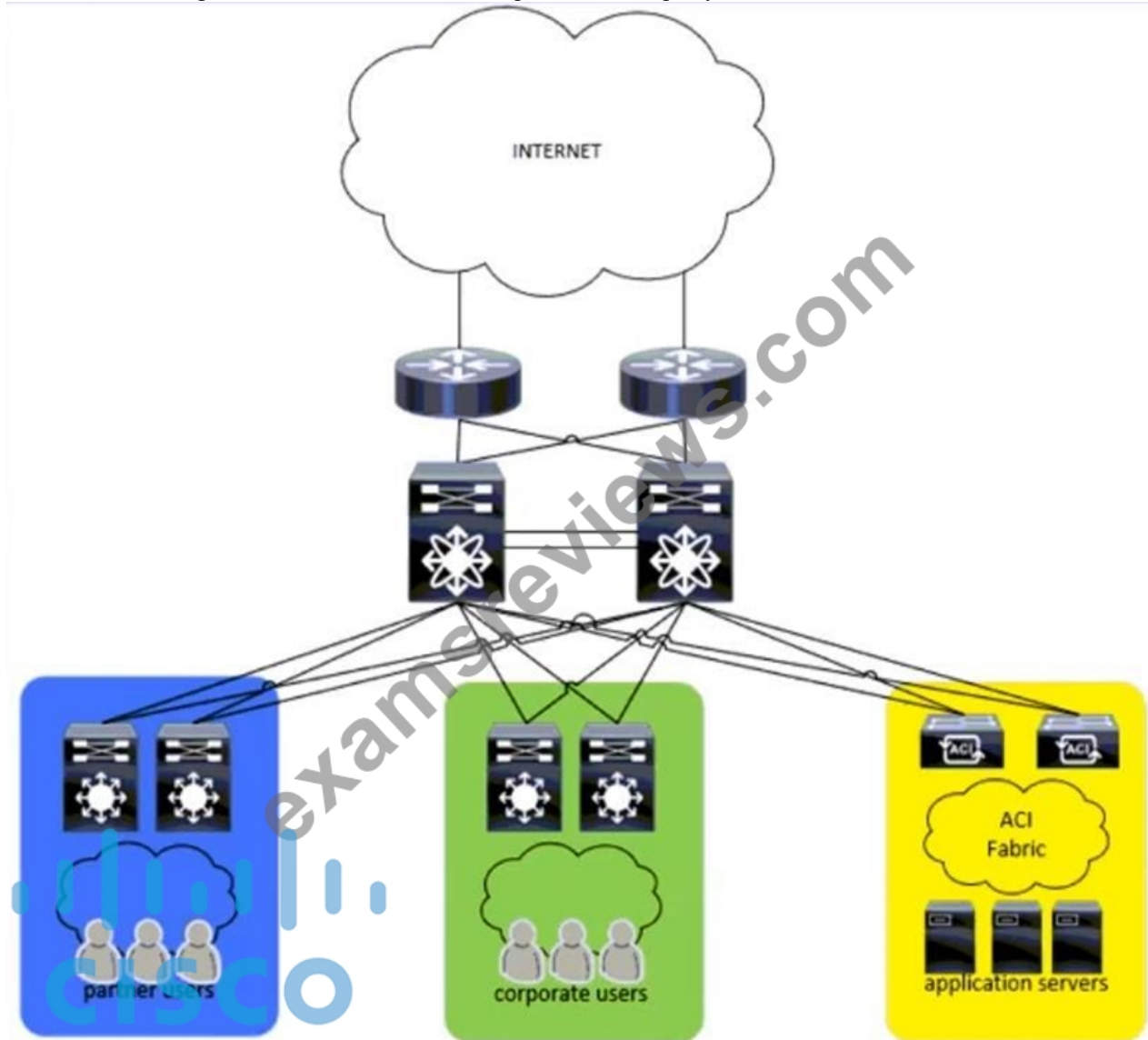
Uses STP if UDLD information times out.	Normal Mode <div style="border: 1px solid black; background-color: #e0ffff; padding: 2px; margin-bottom: 5px;">Uses STP if UDLD information times out.</div> <div style="border: 1px solid black; background-color: #e0ffff; padding: 2px;">Detects when a port is stuck.</div>
Detects when a port is stuck.	
Disables a port that has a high error rate.	Aggressive Mode <div style="border: 1px solid black; background-color: #e0ffff; padding: 2px; margin-bottom: 5px;">Disables a port that has a high error rate.</div> <div style="border: 1px solid black; background-color: #e0ffff; padding: 2px;">Allows a port that has a high error rate.</div>
Allows a port that has a high error rate.	

NEW QUESTION # 78

Refer to the exhibit. The security team created a new security policy that requires certain types of traffic to be subject to deep packet inspection. The traffic types are:

- internet traffic to application servers
- internet traffic to corporate users
- partner network traffic to application servers
- partner network traffic to corporate users

Where must the next-generation firewalls be inserted to implement the new policy?



- A. inline insertion between the user network switch cluster and the core cluster
- **B. one-armed insertion from the core switch cluster**
- C. inline insertion between the edge router duster and the core switch duster
- D. one-armed insertion from the ACI border leaf duster

Answer: B

NEW QUESTION # 79

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