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Cisco 300-610 certification exam is a challenging exam that requires a thorough understanding of data center infrastructure design and implementation. Candidates are required to have a solid understanding of networking technologies, virtualization, storage, and compute solutions. 300-610 Exam is designed to test the candidate's ability to design complex data center infrastructure solutions using Cisco technologies. Designing Cisco Data Center Infrastructure certification is recognized globally and is a valuable asset for professionals who are looking to advance their careers in the data center industry.

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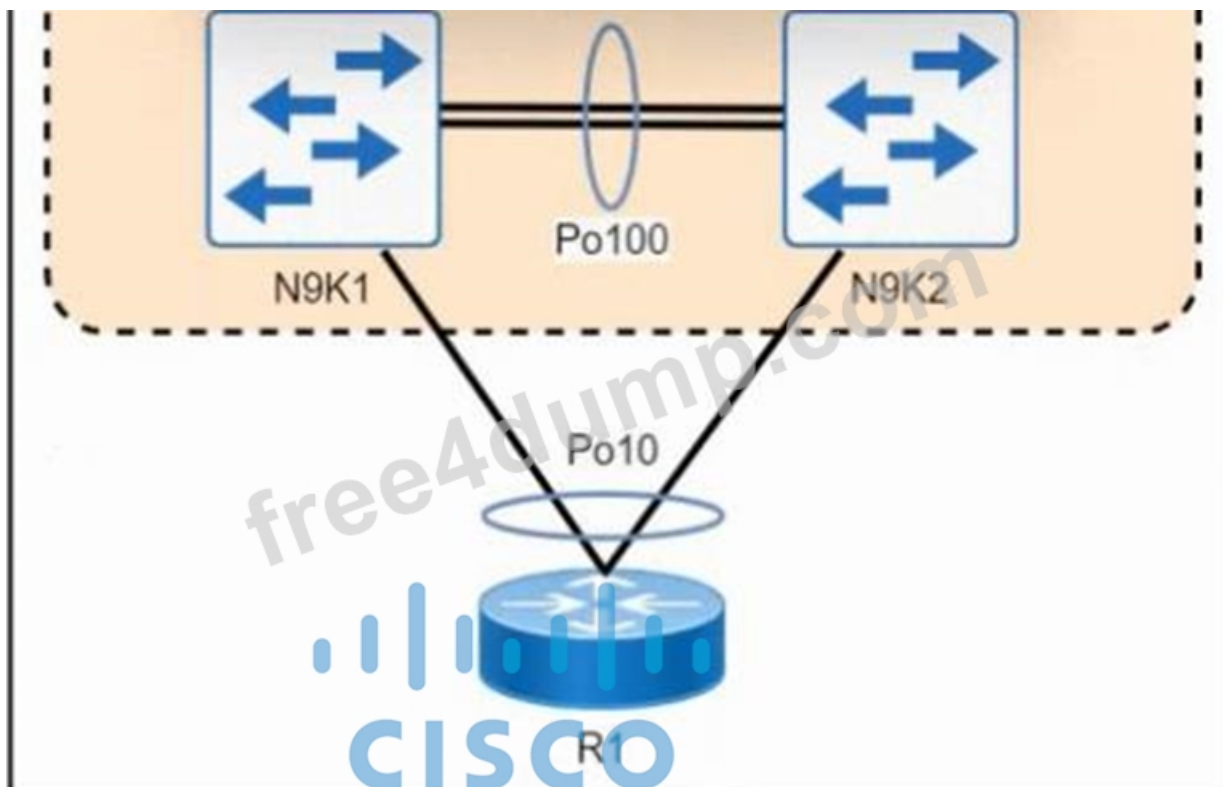
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Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q141-Q146):

NEW QUESTION # 141

Refer to the exhibit.



Refer to the exhibit. Two Cisco Nexus 9000 Series Switches exchange OSPF routing information with R1. Which action accomplishes this goal?

- A. Add peer-gateway under vPC interface link.
- **B. Add layer3 peer-router under vPC domain.**
- C. Add layer3 peer-router under vPC interface link.
- D. Add peer-gateway under vPC domain.

Answer: B

NEW QUESTION # 142

What are two advantages of using Cisco vPC over traditional access layer designs? (Choose two.)

- A. maintains single control plane
- B. supports Layer 3 port channels
- **C. uses all available uplink bandwidth**
- D. disables spanning-tree
- **E. no spanning-tree blocked ports**

Answer: C,E

Explanation:

vPC provides the following technical benefits:

- Eliminates Spanning Tree Protocol (STP) blocked ports
- Uses all available uplink bandwidth
- Allows dual-homed servers to operate in active-active mode
- Provides fast convergence upon link or device failure
- Offers dual active/active default gateways for servers vPC also leverages native split horizon/loop management provided by port-channeling technology: a packet entering a port-channel cannot immediately exit that same port-channel.

https://www.cisco.com/c/dam/en/us/td/docs/switches/datacenter/sw/design/vpc_design/vpc_best_practices_design_guide.pdf

NEW QUESTION # 143

Which two methods mitigate congestion in a SAN network? (Choose two.)

- A. Configure the port channel to enable individual buffer-to-buffer credits.
- B. Configure the flow control for the FC to use R_RDY.
- C. Configure ER_RDY to allow splitting of each ISL between switches into separate virtual links.
- **D. Configure the port monitor to allow categorization of a specific device as slow.**
- **E. Use the port-monitor command to detect slow drain devices.**

Answer: D,E

Explanation:

Reference:

[cisco_mds9000_interfaces_config_guide_8x/congestion_avoidance_isolation.html](https://www.cisco.com/c/en/us/td/docs/switches/9000/9000_interfaces_config_guide/8x/congestion_avoidance_isolation.html)

NEW QUESTION # 144

An engineer must design a solution based on Cisco Nexus 7709 Switches. The solution must connect test and development network segments and separate the enterprise applications from the production network. The network security team requires routing instances and the IP stack to be completely separated from each other and for traffic between the environments to undergo a deep packet inspection. The development team also requests the ability to allocate additional physical interfaces from the Cisco Nexus 7709 device in each environment.

Which solution meets these requirements?

- A. 1) Assign a separate VDC for the testing and development environments.
2. Place a firewall between the VDCs.
- B. 1) Enable new routing instances for the testing and development environments in the same VDC.
2) Control reachability by using firewall access policies.
- C. 1) Create a VRF for the testing and development environments.
2) Use ACLs to control traffic between the two environments.
- **D. 1) Create a separate VRF for the testing and development environments.**
2) Control reachability by using firewall access policies.

Answer: D

NEW QUESTION # 145

An engineer is implementing a storage area network where an NPV is used. The engineer notices that the servers in a storage farm are experiencing heavy traffic contention. The engineer needs to migrate traffic from heavily loaded server interfaces to interfaces with less load. When the new links are deployed, the existing traffic is not rebalanced as expected. Which feature must be used to meet these requirements?

- A. DVM
- B. disruptive load balancing
- C. multiple VSAN support
- **D. NPIV**

Answer: D

NEW QUESTION # 146

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