



300-610^{Q&As}

Designing Cisco Data Center Infrastructure (DCID)

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QUESTION 1

The management of the Cisco Nexus switches is provided over an isolated out-of-band network. The VDC feature is configured on the Cisco Nexus core switches. How is out-of-band management access provided for each VDC?

- A. All the VDC have the same out-of-band IP address.
- B. Each VDC has a dedicated out-of-band Ethernet management port.
- C. Each VDC has a unique out-of-band IP address from the same IP subnet.
- D. Each VDC has a unique out-of-band IP address from different IP subnets among VDCs.

Correct Answer: C

Virtual Device Contexts (VDC) allow you to carve out multiple virtual switches from a single physical Nexus switch

Each VDC is logically isolated from every other VDC on a switch. Therefore just like with physical switches, in order to trunk or route traffic between them, physical interfaces and cabling is required to connect two or more VDCs together before this can happen.

A useful VDC feature is that the mgmt0 interface on the Supervisor can be assigned a different IP address by each VDC.

VDC management can be done via virtualizing the management port so that, each VDC will get logical instance of management port and where we have to provide the separate IP address to each Virtual management Port present in VDC

from the same subnet

QUESTION 2

A network consultant reviews the requirements for the Storage Area Network (SAN) design. The proposed solution must offer a very efficient port usage and eliminate the need for a separate physical layer of switches and their associated ISLs. The design is not expected to require future expansion.

Which SAN topology must be used to meet these requirements?

- A. core-edge
- B. collapsed-core
- C. core-distribution-access
- D. edge-core-edge

Correct Answer: B

**QUESTION 3**

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.

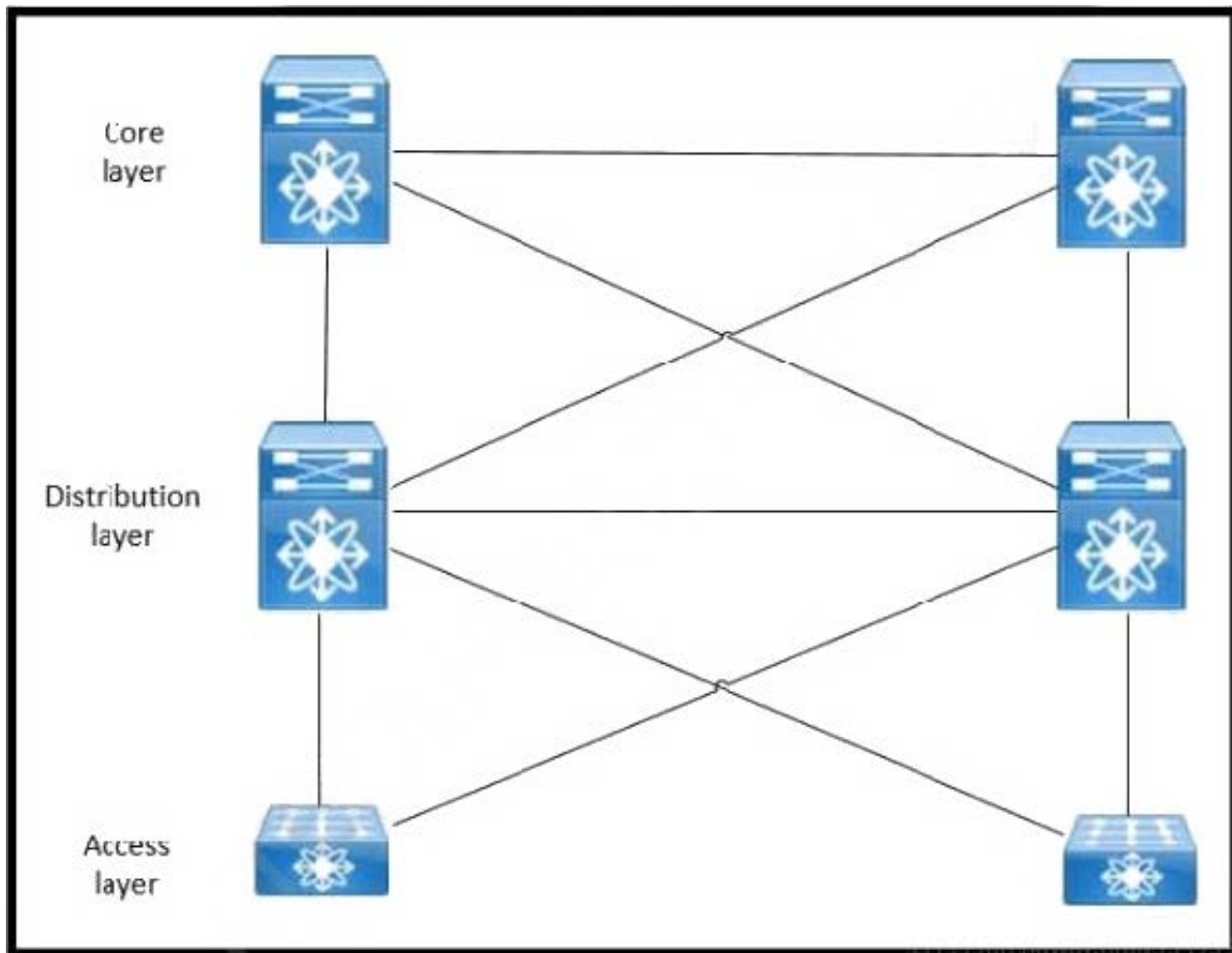
Which solution meets these requirements?

- A. 1. Create a VRF for the testing and development environments.
2. Use ACLs to control traffic between the two environments.
- 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. Assign a separate VDC for the testing and development environments.
2. Place a firewall between the VDCs.
- D. 1. Create a separate VRF for the testing and development environments.
2. Control reachability by using firewall access policies.

Correct Answer: C

QUESTION 4

Refer to the exhibit.



An engineer working for service provider with an employee ID: 4540:37:940 must migrate the current topology to one that will provide more speed, less latency, and support software-defined networks. The new topology requires:

1.
low predictable latency
 2.
loop-free
 3.
load balancing of traffic across multiple paths
 4.
ability to easily increase capacity and port density
- Which design topology must the engineer choose?
- A. spine-and-leaf
- B. three-tier



C. core-edge

D. flood-and-learn

Correct Answer: A

QUESTION 5

Which two vSphere features must be included in the design of a Cisco HyperFlex systems stretched cluster? (Choose two.)

A. HA

B. VSS

C. FT

D. VDP

E. DRS

Correct Answer: AE

Reference: https://www.cisco.com/c/en/us/td/docs/hyperconverged_systems/HyperFlex_HX_DataPlatformSoftware/HyperFlex_Stretched_Cluster/3_5/b_HyperFlex_Systems_Stretched_Cluster_Guide_3_5.pdf

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