



300-610^{Q&As}

Designing Cisco Data Center Infrastructure (DCID)

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**QUESTION 1**

A network engineer must design a data center network with four Cisco Nexus 7706 switches. The switches will be installed in primary and secondary data centers in vPC domains. The two data centers must be connected via Layer 2 links and provide the maximum throughput, redundancy, and avoid port-blocking spanning-tree design.

Which deployment model meets these requirements?

- A. dual-sided single vPC
- B. single-sided dual vPC
- C. dual-sided dual vPC
- D. single-sided single vPC

Correct Answer: C

QUESTION 2

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 3

An engineer must interconnect two data centers to support the dynamic virtual machine migration. The data centers are



currently interconnected using an IPv4 network. However, the data plane encapsulation of the underlay network is expected to change next year. To meet the VM migration requirement, the solution must track MAC route changes, update all other remote devices simultaneously and prevent excessive MAC flapping with broadcast and unicast traffic loops. The company must also use networking equipment from different manufacturers to prevent vendor-locking. Which solution meets these requirements?

- A. EoMPLS
- B. OTV
- C. EVPN
- D. VXLAN

Correct Answer: C

QUESTION 4

An engineer must design a DNS service available to multiple network zones as a shared service. The network zones are deployed as VRFs within the data center network and no firewall is available for communication between VRFs. Which protocol is needed to implement the shared services?

- A. BGP
- B. OSPF
- C. ISIS
- D. VXLAN

Correct Answer: D

QUESTION 5

Which multicast rendezvous point redundancy mode is valid for Bidirectional PIM?

- A. Embedded RP
- B. Phantom RP
- C. MSDP
- D. PIM anycast RP

Correct Answer: B

Check the Phantom RP section in: https://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/ip-multicast/whitepaper_c11-508498.html



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