



# 300-610<sup>Q&As</sup>

Designing Cisco Data Center Infrastructure (DCID)

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**QUESTION 1**

An engineer must secure the payload traversing across the DCI. The solution must support confidentiality and integrity and it must be open standard. The solution must encrypt Ethernet frames regardless of the upper layer protocol used. Which technology must be used to support these requirements?

- A. GRE
- B. MACsec
- C. IPsec
- D. OTV

Correct Answer: B

The key to solution is "Ethernet frames". Frames are layer 2. IPsec encrypts at layer 3.

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**QUESTION 2**

What is the disadvantage of asynchronous storage replication as compared to synchronous storage replication in a disaster recovery design?

- A. reduction in application performance
- B. distance limitations
- C. specific backup requirements
- D. potential data loss

Correct Answer: D

Reference: <https://www.evidian.com/products/high-availability-software-for-application-clustering/synchronous-replication-vs-asynchronous-replication/>

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**QUESTION 3**

A data center uses Cisco Nexus 7000 Series Switch and contains two tenants, tenant A and tenant B.

1.

Tenant A uses IP addresses in the 10.2.30.41/24 to 10.2.30.64/24 range.

2.

Tenant B uses IP addresses in the 10.2.30.120/24 to 10.2.30.192/24 range. The engineer must implement a solution that:

1.



Isolates the traffic for each tenant as separate routing data and control planes.

2.

Physically partitions the Cisco Nexus device into separate multiple logical devices with separate management, failure domain isolation, and resource management. Which two technologies meet these requirements? (Choose two.)

- A. VDC
- B. vPC
- C. VXLAN
- D. VLAN
- E. VRF

Correct Answer: AE

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#### QUESTION 4

A Cisco UCS chassis with several blade servers, a pair of IOMs, and a pair of Cisco UCS Fabric Interconnects are installed in a data center. Which two high-availability architectures are recommended between the IOMs and fabric interconnects? (Choose two.)

- A. One, two, four and eight links are supported to be used between each IOM and fabric interconnect.
- B. IOM is connected to the fabric interconnect that is acting as fabric A. and IOM B is connected to the fabric interconnect that is acting as fabric B.
- C. Any combination of one to eight links are supported to be used between each IOM and fabric interconnect.
- D. The IOMs are connected with multiple straight and cross-connect links toward a pair of nonclustered fabric interconnects.
- E. Straight and cross-connect links should be used between the IOMs and fabric interconnects to offer higher availability.

Correct Answer: BC

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#### QUESTION 5

A Cisco engineer is configuring MPLS VPN BGP at a customer site that is connected to the provider site by more than one path MPLS VPN BGP Local Convergence link protection is enabled. After the engineer installs the main forwarding path and the redundant backup path within the BGP, they assign a unique route distinguisher to each VRF table on all PE devices that serve as a backup to the link.

What is a prerequisite for this local convergence to work?



- A. Interautonomous system option A (back-to-back VRF) is active.
- B. BGP must support lossless switchover between operational paths
- C. IP/GRE is enabled.
- D. The system is performing a PE-CE link protection on both ends

Correct Answer: D

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