



## Cisco 300-610 Mock Exam

Shared by Guerrero on 17-06-2026

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## Question 1

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Question Type: MultipleChoice

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An engineer must connect a Cisco UCS Fabric Interconnect to a storage array using a Fibre Channel protocol. The SAN must be directly connected to the UCS fabric interconnects using ports 1/1 and 1/2. Which fabric interconnect configuration must be used?

Options:

- A- Fibre Channel end-host mode, and ports as Fibre Channel storage port
- B- Fibre Channel switching mode, and ports as Fibre Channel storage port
- C- Fibre Channel end-host mode, and ports as Fibre Channel uplink port
- D- Fibre Channel switching mode, and ports as Fibre Channel uplink port

Answer:

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A

## Question 2

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Question Type: MultipleChoice

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What should be implemented on a Cisco Nexus 9300 Series Switch to reduce oversubscription between switches within a Fibre Channel fabric?

Options:

- A- LACP port channel
- B- vPC+
- C- SAN port channel
- D- E-Trunk

Answer:

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B

## Question 3

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Question Type: MultipleChoice

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What is a design consideration when implementing FSPF?

Options:

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

Answer:

A



## Question 4

Question Type: MultipleChoice

A network architect must design a large-scale Cisco SAN topology. The customer has a limited budget, so a design that provides use of resources is required. To support this requirement, the architect to share array ports, ISL, and line card bandwidth. The customer has also presented these additional considerations:

The customers plans to expand the network by 10% over the next two years.

The customer's policy requires physically separated infrastructure to support high availability.

Which solution should be used to meet these requirements?

Options:

- A- Collapsed-core
- B- Mesh
- C- Core-edge
- D- Edge-core-edge

Answer:

C

Explanation:

Please review this question.

## Question 5

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Question Type: MultipleChoice

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An architect must automate routine tasks within a data center. The data center exclusively uses Cisco Nexus Series Switches. The networking team lacks proper programming knowledge and prefers an automation solution that leverages NXOS commands. Any configuration change must use HTTPS for transport due to a security compliance requirement. Which solution must the architect choose?

Options:

- A- NX-API
- B- Python-API
- C- Chef
- D- Terraform

Answer:

A

## Question 6

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Question Type: MultipleChoice

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A customer is implementing a business continuity solution for the current data centers. The new location must mitigate the impact of a disaster in any existing data centers by providing an acceptable level of service. The solution must support

- \* fully segregated Layer 2 and 3 fault domains
- \* low or no human intervention for service restoration
- \* medium to high RPO/RTO for a subset of applications
- \* asynchronous storage replication for application data

Which disaster recovery solution must the customer choose to meet these requirements?

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**Options:**

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- A- identical infrastructure facility ready to provide service
- B- mirrored inactive infrastructure facility with fully stretched resources
- C- cold infrastructure facility with basic infrastructure
- D- partially equipped infrastructure facility for on-demand activation

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**Answer:**

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A

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## Question 7

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Question Type: MultipleChoice

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A network administrator must create a redundant vHBA for the mission-critical virtual machines (VMs) installed on a Cisco UCS Fabric Interconnect blade server. The VMs access multiple datastores using VSAN55 and VSAN95. The datastore on which the VMs are hosted must be accessible if any of the uplinks goes offline. Which action meets these requirements?

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**Options:**

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- A- Attach VSAN55 to vHBA1 and VSAN95 to vHBA2.
- B- Assign VSAN55 and VSAN95 to vHBA1 and vHBA2.
- C- Enable failover for the vHBA with VSAN55 and VSAN95 enabled.
- D- Configure load-balancing for vHBAs with VSAN55 and VSAN95 attached.

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**Answer:**

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B

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## Question 8

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Question Type: MultipleChoice

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An engineer must develop a Python tool to automate software upgrades of both data center and non-data center devices. All devices offer a RESTful API and require a JSON or XML payload. Vendor-specific libraries must be avoided. Which library must the engineer select?

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**Options:**

- A- requests
- B- Nornir
- C- ncciiient
- D- Netmiko

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**Answer:**

A

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## Question 9

**Question Type:** MultipleChoice

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.)

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**Options:**

- 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.

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**Answer:**

A, B

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## Question 10

**Question Type:** MultipleChoice

An engineer must design a solution to divide the workload across two different data centers and

achieve redundancy in case of the failure of either data center Which solution must the engineer choose?

Options:

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- A- single Cisco HyperFlex stretched cluster
- B- Cisco Hyperflex edge cluster
- C- Cisco Hyperflex ROBO cluster
- D- single Cisco HyperFlex standard cluster

Answer:

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A



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