

# 100% Pass Quiz High Pass-Rate 300-610 - Designing Cisco Data Center Infrastructure New Braindumps Pdf



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## Cisco 300-610 Exam certification requirements

- Implement Cisco Unified Computing System (Cisco UCS)
- Describe products in the Cisco Data Center Nexus and Multilayer Director Switch (MDS) families
- Implement data center automation and orchestration with the focus on Cisco Application Centric Infrastructure (ACI) and Cisco UCS Director
- Describe the data center storage

Cisco 300-610 exam is an essential certification exam for professionals who want to validate their skills in designing Cisco data center infrastructure. 300-610 Exam covers a range of topics related to data center infrastructure design, including networking, storage, compute, automation, and security. Passing 300-610 exam is a crucial step for professionals who want to advance their career in the field of data center infrastructure design and management.

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## Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q137-Q142):

### NEW QUESTION # 137

Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.

fabric interconnect	The Fibre Channel fabric fails for all of the connected Cisco UCS chassis.
FEX	The Fibre Channel fabric fails for one Cisco UCS chassis.
FEX link of the fabric interconnect	The Fibre Channel fabric fails for some of the servers within a Cisco UCS chassis.
converged network adapter	The Fibre Channel fabric fails for one server.

Answer:

Explanation:

fabric interconnect	converged network adapter
FEX	FEX link of the fabric interconnect
FEX link of the fabric interconnect	fabric interconnect
converged network adapter	FEX

### NEW QUESTION # 138

#### DRAG DROP

Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.  
Select and Place:

fabric interconnect	The Fibre Channel fabric fails for all of the connected Cisco UCS chassis.
FEX	The Fibre Channel fabric fails for one Cisco UCS chassis.
FEX link of the fabric interconnect	The Fibre Channel fabric fails for some of the servers within a Cisco UCS chassis.
converged network adapter	The Fibre Channel fabric fails for one server.

Answer:

Explanation:

fabric interconnect	converged network adapter
FEX	FEX link of the fabric interconnect
FEX link of the fabric interconnect	fabric interconnect
converged network adapter	FEX

Section: Compute Design

**NEW QUESTION # 139**

Drag and drop the components from the left onto the descriptions on the right that indicate what occurs to Fibre Channel fabric when that component fails.

fabric interconnect	The Fibre Channel fabric fails for all of the connected Cisco UCS chassis.
FEX	The Fibre Channel fabric fails for one Cisco UCS chassis.
FEX link of the fabric interconnect	The Fibre Channel fabric fails for some of the servers within a Cisco UCS chassis.
converged network adapter	The Fibre Channel fabric fails for one server.

**Answer:**

Explanation:

fabric interconnect	converged network adapter
FEX	FEX link of the fabric interconnect
FEX link of the fabric interconnect	fabric interconnect
converged network adapter	FEX

**NEW QUESTION # 140**

An engineer designs a Cisco UCS solution that must provide guaranteed and deterministic bandwidth to a specific server in the environment. The solution must apply to network and storage traffic of C-Series and B-Series servers. Which solution should be included to meet these requirements?

- A. Pin the server ports of the service profile to dedicated uplink ports.
- B. Pin the IOM ports of the service profile to dedicated server ports.
- **C. Pin the vNICs and the vHBAs of the service profile to dedicated uplink ports.**
- D. Pin the vNICs and vHBAs of the service profile to dedicated server ports

**Answer: C**

Explanation:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/sw/gui/config/guide/2-2/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_2\\_2/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_2\\_2\\_chapter\\_010.html#concept\\_7DE33CE2E37A47C6992C012D51CA37D4](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-2/b_UCSM_GUI_Configuration_Guide_2_2/b_UCSM_GUI_Configuration_Guide_2_2_chapter_010.html#concept_7DE33CE2E37A47C6992C012D51CA37D4)

## Pinning

Pinning in Cisco UCS is only relevant to uplink ports. You can pin Ethernet or FCoE traffic from a given server to a specific uplink Ethernet port or uplink FC port.

When you pin the NIC and HBA of both physical and virtual servers to uplink ports, you give the fabric interconnect greater control over the unified fabric. This control ensures more optimal utilization of uplink port bandwidth.

Cisco UCS uses pin groups to manage which NICs, vNICs, HBAs, and vHBAs are pinned to an uplink port. To configure pinning for a server, you can either assign a pin group directly, or include a pin group in a vNIC policy and then add that vNIC policy to the service profile assigned to that server. All traffic from the vNIC or vHBA on the server travels through the I/O module to the same uplink port.

- Guidelines for Pinning

## Guidelines for Pinning

When you determine the optimal configuration for pin groups and pinning for an uplink port, consider the estimated bandwidth usage for the servers. If you know that some servers in the system will use a lot of bandwidth, ensure that you pin these servers to different uplink ports.



### NEW QUESTION # 141

An engineer is designing a Multichassis EtherChannel topology in which two switches must appear as a single device to a third downstream switch? Which two technologies meet this requirement? (Choose two.)

- A. HSRP
- B. VSS
- C. 802.1q
- D. FEX
- E. vPC

**Answer: B,E**

### Explanation:

## Section: Compute Design

Explanation/Reference:  
Reference: <https://www.cisco.com/c/dam/en/us/products/collateral/switches/nexus-7000-series-switches/C07-4862-01.pdf>

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