

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

Designing Cisco Data Center Infrastructure (DCID)

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## QUESTION 1

### DRAG DROP

Drag and drop the data center technologies from the left onto the correct descriptions on the right. Not all technologies are used.

Select and Place:

cut-through switching	connects a classical Ethernet vPC domain and a Cisco FabricPath cloud to interoperate
OTV	extends Layer 2 domains across distributed data centers
store-and-forward switching	performs Layer 2 lookup as soon as the destination MAC is received
VPC	two separate control planes, performs device aggregation
VPC+	

Correct Answer:

	VPC+
	OTV
store-and-forward switching	cut-through switching
	VPC

## QUESTION 2

Refer to the exhibit.

**Cisco Integrated Management Controller**

Home / ... / Adapter Card 5 / General

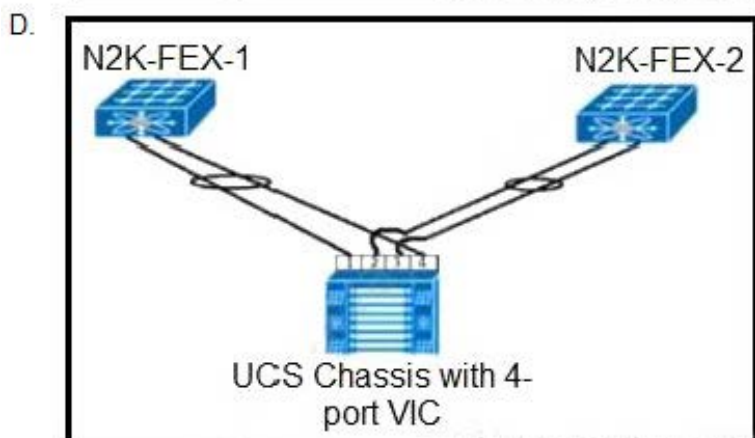
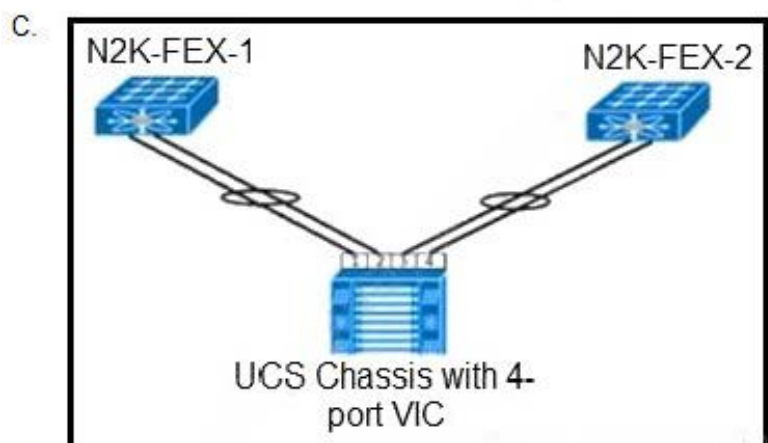
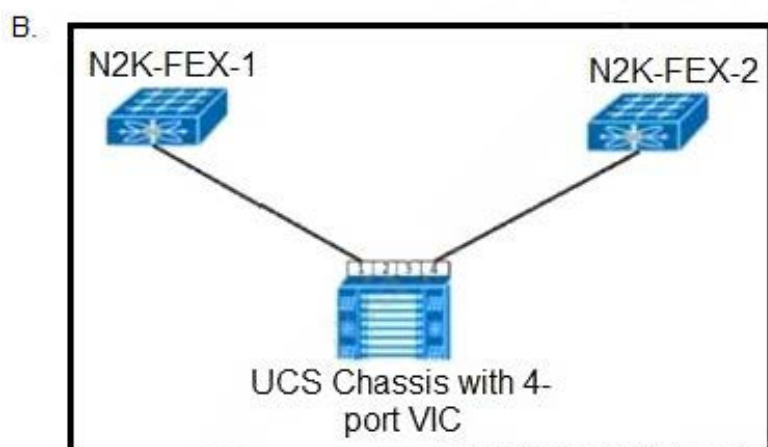
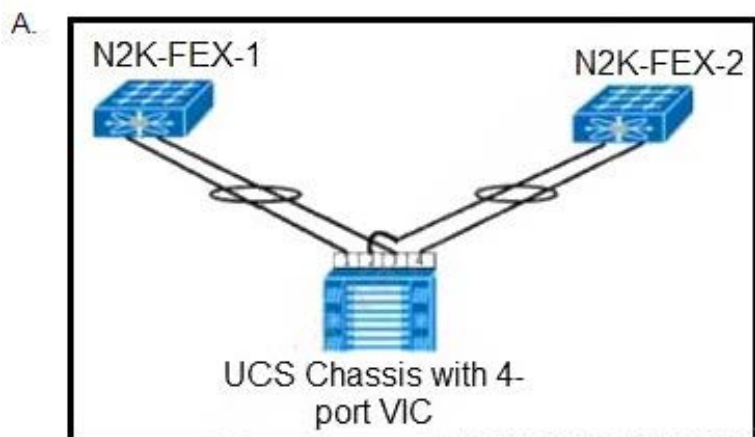
General | vNICs | vHBAs

Export vNIC | Import vNIC | Reset | Reset To Defaults

**Adapter Card Properties**

PCI-Slot:	5	ISCSI Boot Capable:	True
Vendor:	Cisco Systems Inc	CDN Capable:	True
Product Name:	UCS VIC	usNIC Capable:	True
Product ID:	UCSC-PCE	Port Channel Capable:	True
Serial Number:	FC	Description:	
Version ID:	V00	Enable FIP Mode:	<input checked="" type="checkbox"/>
Hardware Revision:	4	Enable LLDP:	<input checked="" type="checkbox"/>
Cisco IMC Management Enabled:	no	Enable VNTAG Mode:	<input checked="" type="checkbox"/>
Configuration Pending:	no	Port-0:	
		Port-1:	
		Port Channel:	<input checked="" type="checkbox"/>

An engineer must connect the four-port Cisco UCS VIC adapter to the fabric extenders. Which connectivity implements a port-channel standalone mode?



A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

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### QUESTION 3

A network architect designs the iSCSI-based storage area network solution. The iSCSI datastore must be designed with high availability, minimal downtime, and no single point of failure. The requirement is to fail over I/O to alternate paths based on SCSI sense codes without reliance on network failures.

Which feature must be deployed to meet these requirements?

A. hardware-based flow control

B. port security

C. iSCSI multipath

D. NIC teaming

Correct Answer: C

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### QUESTION 4

An engineer must deploy a Cisco HyperFlex system at two data centers. For redundancy reasons, the setup must achieve data protection in case of an entire site failure. The data must be available on both sites at all times to keep the recovery time objective to a minimum.

Which Cisco HyperFlex deployment model meets these requirements?

A. ROBO cluster

B. stretched cluster

C. edge with four nodes or more

D. standard with eight nodes

Correct Answer: B

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### QUESTION 5

What are two advantages of using Cisco vPC over traditional access layer designs? (Choose two.)

- A. supports Layer 3 port channels
- B. disables spanning-tree
- C. no spanning-tree blocked ports
- D. uses all available uplink bandwidth
- E. maintains single control plane

Correct Answer: CD

vPC provides the following technical benefits:

1.  
Eliminates Spanning Tree Protocol (STP) blocked ports
2.  
Uses all available uplink bandwidth
3.  
Allows dual-homed servers to operate in active-active mode
4.  
Provides fast convergence upon link or device failure
5.  
Offers dual active/active default gateways for servers vPC also leverages native split horizon/loop management provided by port-channeling technology: a packet entering a port-channel cannot immediately exit that same port-channel.

Reference: [https://www.cisco.com/c/dam/en/us/td/docs/switches/datacenter/sw/design/vpc\\_design/vpc\\_best\\_practices\\_design\\_guide.pdf](https://www.cisco.com/c/dam/en/us/td/docs/switches/datacenter/sw/design/vpc_design/vpc_best_practices_design_guide.pdf)

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## QUESTION 6

Which mode must be enabled on a Cisco UCS Fabric Interconnect to connect directly to a storage array?

- A. NPIV mode
- B. FC end-host mode
- C. NPV mode
- D. FC switching mode

Correct Answer: D

Reference: [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-manager/GUI-User-Guides/Storage-Mgmt/3-1/b\\_UCSM\\_GUI\\_Storage\\_Management\\_Guide\\_3\\_1/](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Storage-Mgmt/3-1/b_UCSM_GUI_Storage_Management_Guide_3_1/)

b\_UCSM\_GUI\_Storage\_Management\_Guide\_3\_1\_chapter\_01110.html

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## QUESTION 7

An engineer manages a multi-organization Cisco UCS fabric and requires a solution to streamline the daily operational tasks of creating service profile templates. The operations team is unfamiliar with programming languages and must have a solution that is written in an easy-to-read and declarative manner. The operations team also requires the tool to be flexible enough to support the creation of custom modules. The development team is familiar with the Python programming language and can develop these custom modules for the operations team.

Which tool meets these requirements?

- A. Ansible
- B. Puppet
- C. CFEngine
- D. Chef

Correct Answer: A

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## QUESTION 8

A network engineer must design a Cisco HyperFlex solution based on these requirements:

1.  
two clusters in the main data center consisting of five HyperFlex nodes
2.  
one edge node for the remote branch
3.  
cluster nodes that use one rack unit of space

Which two devices should be used in the remote branch cluster for this design? (Choose two.)

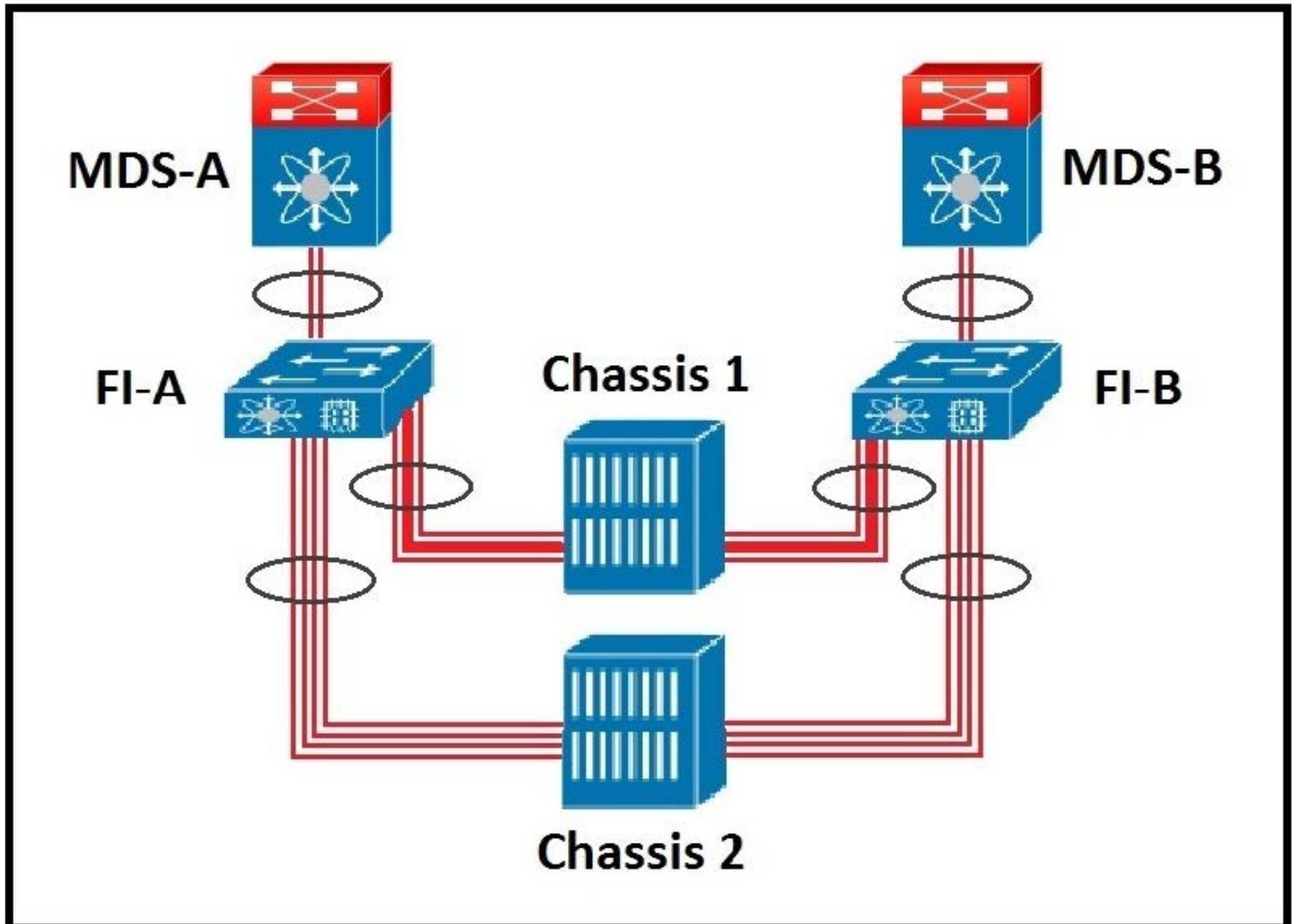
- A. Gigabit Ethernet Switch
- B. HX240C
- C. HX220C
- D. Fabric Interconnect 6300
- E. UCSB B200

Correct Answer: BE

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**QUESTION 9**

Refer to the exhibit.



An engineer must assign multiple Fibre Channel IDs to a single port channel. Which two features must be enabled this goal? (Choose two.)

- A. SAN Pin Groups on the Cisco UCS Fabric Interconnects.
- B. NPV feature on the Cisco MDS Series.
- C. end-host mode feature on the Cisco UCS Fabric Interconnects
- D. NPIV feature on the Cisco MDS Series
- E. Smart Zoning feature on the Cisco UCS Fabric Interconnects

Correct Answer: CD

end-host on Fabric Interconnect to enabled NPV NPIV enabled on SAN fabric



## QUESTION 10

Which address pool is used when a vHBA template is created?

- A. MAC
- B. WWPN
- C. IP
- D. UUID

Correct Answer: B

Reference:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/sw/gui/config/guide/2-1/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_2\\_1/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_2\\_1\\_chapter\\_011010.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-1/b_UCSM_GUI_Configuration_Guide_2_1/b_UCSM_GUI_Configuration_Guide_2_1_chapter_011010.html)

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## QUESTION 11

An engineer must design a secondary site to prevent a catastrophic primary site failure. The applications must communicate across sites via the data link layer of the OSI model. The Layer 3 transport that is available for this solution consists of 10-Gb connections over Layer 3.

Which two solutions meet these requirements? (Choose two.)

- A. OTV
- B. vPC
- C. OSPF
- D. ISIS
- E. VXLAN EVPN

Correct Answer: AE

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## QUESTION 12

An end user is experiencing network latency when accessing a database in a disaster recovery site. The monitoring team concluded that the database was writing simultaneously to the storage arrays on the primary and disaster recovery sites.

Which design resolves this issue?

- A. asynchronous replication between data centers

- B. synchronous replication between data centers
- C. FCoE tunnel between data center
- D. FCIP tunneling between data center

Correct Answer: A

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## QUESTION 13

A network architect designs a high-availability architecture for the Cisco UCS Fabric interconnects that installed in a data center. The architecture must support clustering and redundancy. Which architecture meets these requirements?

- A. dual connections from port L1 to L1 and one connection from port L1 to L1 with twinax cables
- B. dual connections from port L1 to L1 and one connection from port L2 to L2 with Ethernet cables
- C. dual connections from port L1 to L2 and one connection from port L2 to L1 with Ethernet cables dual
- D. dual connections from port L1 to L2 and one connection from port L2 to L1 with twinax cables

Correct Answer: B

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/sw/gui/config/guide/1-0-2/b\\_GUI\\_Config\\_Guide/GUI\\_Config\\_Guide\\_chapter4.pdf](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/1-0-2/b_GUI_Config_Guide/GUI_Config_Guide_chapter4.pdf)

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## QUESTION 14

An engineer must configure an interface for managing and orchestrating a Cisco Nexus device. The interface must be operational if the data and control planes crash, support IPv4 and IPv6 addressing, and have been access to its own VRF instance.

Which interface should be used to meet these requirements?

- A. management interface
- B. lookup
- C. interface VLAN
- D. Physical interface

Correct Answer: A

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## QUESTION 15

An engineer must build a VXLAN flood-and-learned network. The customer requires the solution to be based on the IETF documented practice in RFC 7348. The solution must use broadcast, unknown unicast, and multicast (BUM) and include the efficient BUM and short BUM replication modes that use only shared trees.

Which technology meets these requirements?

- A. MVPN
- B. Bidirectional PIM
- C. PIM SSM
- D. PIM sparse mode

Correct Answer: D

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