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**Cisco**

# 300-610

*Designing Cisco Data Center Infrastructure (DCID)*



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**Question: 154**

Which feature must be configured to connect a classical Ethernet network to a data center network so that the data center network appears to be one large switch.

- A . VPC+
- B . UDLD
- C . EVPN
- D . OSPF

**Answer: C**

**Question: 155**

What are two characteristics of VRF-Lite on the Cisco NX-OS platform? (Choose two.)

- A . Layer 3 interfaces can belong to multiple VRFs.
- B . VRF-Lite interfaces can be Layer 2.
- C . Overlapping IP addresses are permitted on different VRFs.
- D . Interfaces that belong to VRFs can be physical or logical.
- E . VRF-Lite interfaces support MPL

**Answer: CD**

Explanation:

Reference: [https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/cgr1000/ios/software/15\\_4\\_1\\_cg/vrf\\_cgr1000.html](https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/cgr1000/ios/software/15_4_1_cg/vrf_cgr1000.html)

**Question: 156**

What is an advantage of using OTV as compared to VPLS for data center redundancy?

- A . prevents loops on point-to-point links
- B . provides head-end replication
- C . uses a proactive MAC advertisement
- D . provides full-mesh connectivity

**Answer: A**

Explanation:

Reference: <https://community.cisco.com/t5/data-center-documents/understanding-overlay-transportvirtualization-otv/ta-p/3151502#toc-hId-1043251551>

**Question: 157**

What characteristic of IP addressing creates a hierarchical network?

- A . All hosts on all networks must have unique host numbers.
- B . IP addresses identify a host and the network on which it resides.
- C . Clients are assigned 32-bit addresses and servers 64-bit addresses.
- D . Router, switch and host addresses are drawn from unique address classes.

**Answer:** B

**Question:** 158

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

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

**Answer:** D

Explanation:

Reference: [https://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/ip-multicast/whitepaper\\_c11-508498.html](https://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/ip-multicast/whitepaper_c11-508498.html)

**Question:** 159

Which protocol prevents fiber failures from causing a Layer 2 loop in a dark fiber DCI?

- A . BFD
- B . UDLD
- C . MCP
- D . LLDP

**Answer:** B

**Question:** 160

An engineer deploys LISP VM mobility.

Which feature is configured on the interfaces that have VM mobility enabled?

- A . IP redirects
- B . flow control
- C . proxy ARP
- D . HSRP

**Answer:** C

Explanation:

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/lisp/configuration/guide/b\\_NX-OS\\_LISP\\_Configuration\\_Guide/b\\_NX-OS\\_LISP\\_Configuration\\_Guide\\_chapter\\_010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/lisp/configuration/guide/b_NX-OS_LISP_Configuration_Guide/b_NX-OS_LISP_Configuration_Guide_chapter_010.html)

**Question:** 161

The management of the Cisco Nexus switches is provided over an isolated out-of-band network. The VDC feature is configured on the Cisco Nexus core switches.

How is out-of-band management access provided for each VDC?

- A . All the VDC have the same out-of-band IP address.
- B . Each VDC has a dedicated out-of-band Ethernet management port.

- C . Each VDC has a unique out-of-band IP address from the same IP subnet.
- D . Each VDC has a unique out-of-band IP address from different IP subnets among VDCs.

**Answer: C**

**Question: 162**

Tom has asked you why the numbers returned by his searches are not right.

He shows you three JQL queries:

JQL	Number of Results
✓ project = "Cake baking"	42
✓ project = "Cake baking" and fixVersion = 1.1.0	6
✓ project = "Cake baking" and fixVersion != 1.1.0	22

How can you fix this?

- A . Change the query to project = "Cake Baking" and fixVersion ~ 1.1.0.
- B . Change the query to project = "Cake Baking" and ( fixVersion is empty or fixVersion != 1.1.0 ).
- C . Rename the versions so they do not contain periods.
- D . Identify the missing issues and change the permissions so that everyone can see them.
- E . Change the query to project = "Cake Baking" and fixVersion not in (1.1.0).

**Answer: D**

**Question: 163**

DRAG DROP

A failure occurs on the network between two BFD and OSPF neighbors.

Drag and drop the protocol actions from the left into the correct order on the right.

BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	step 1
If an alternate path is available, routers immediately start converging on it.	Step 2
The BFD neighboring session with the OSPF peer is terminated.	Step 3
The local OSPF process tears down the OSPF neighbor relationship.	Step 4

**Answer:**

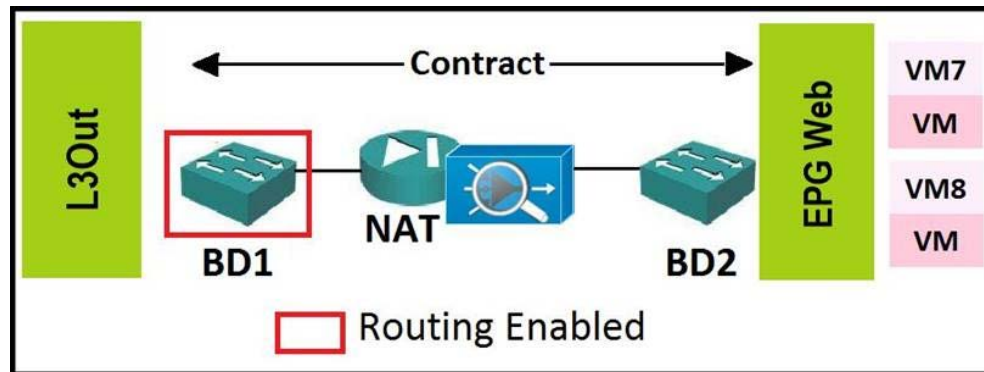
BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.	The BFD neighboring session with the OSPF peer is terminated.
If an alternate path is available, routers immediately start converging on it.	BFD notifies the local OSPF process that the BFD neighbor is no longer reachable.
The BFD neighboring session with the OSPF peer is terminated.	The local OSPF process tears down the OSPF neighbor relationship.
The local OSPF process tears down the OSPF neighbor relationship.	If an alternate path is available, routers immediately start converging on it.

Explanation:

Reference: [https://www.cisco.com/c/en/us/td/docs/ios/12\\_0s/feature/guide/fs\\_bfd.html#wp1238898](https://www.cisco.com/c/en/us/td/docs/ios/12_0s/feature/guide/fs_bfd.html#wp1238898)

**Question: 164**

Refer to the exhibit.



What must be the default gateway of the servers in EPG Web?

- A . subnet address of BD1
- B . subnet address of L3Out
- C . subnet address of BD2
- D . NAT appliance

**Answer: D**

**Question: 165**

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

**Answer:** CD

Explanation:

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)

**Question:** 166

Which two configurations allow for routing traffic between two VDCs? (Choose two.)

- A . Connect the VDCs to an external Layer 3 device.
- B . Cross-connect the ports between the VDCs.
- C . Create VRF-aware software infrastructure interfaces.
- D . Create a policy map in the default VDC that routes traffic between the VDCs.
- E . Create interfaces in the VDC that can be accessed by another VDC

**Answer:** AD

**Question:** 167

DRAG DROP

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

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+	

**Answer:**

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

#### Question: 168

What is a design consideration when implementing FSPF?

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

**Answer:** A

Explanation:

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5\\_0/configuration/guides/fabric/nxos/cli\\_fabric/fspf.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/fabric/nxos/cli_fabric/fspf.html)

#### Question: 169

Which element is the main functional component of the architecture that separates the internal fabric and the external network that connects sites when VXLAN EVPN is deployed multisite?

- A . border leaf
- B . service leaf
- C . border gateway
- D . service gateway

**Answer:** C

Explanation:

Reference: [https://dcloud-cms.cisco.com/demo\\_news/cisco-dcnm-11-3-for-vxlan-evpn-multi-sitedeployments-lab-v1](https://dcloud-cms.cisco.com/demo_news/cisco-dcnm-11-3-for-vxlan-evpn-multi-sitedeployments-lab-v1)





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