

## Cisco CCNP Certification 300-160 Exam



- Vendor: Cisco
- Exam Code: 300-160
- Exam Name: Designing Cisco Data Center Infrastructure (DCID)

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**QUESTION 1**

You have a Cisco UCS B-Series chassis. To connect to a blade server by using a remote KVM console, you should connect to the IP address of which component?

- A. mgmt0
- B. CIMC
- C. IPMI
- D. CMP

**Answer: B**

**QUESTION 2**

If you are connecting a Cisco UCS Fabric Interconnect in its default mode to a SAN, what is the operating mode?

- A. trunk
- B. NPIV mode
- C. switching
- D. NPV mode

**Answer: D**

**QUESTION 3**

Which item represents a method of increasing storage utilization efficiency?

- A. thick provisioning
- B. thin provisioning
- C. transparent provisioning
- D. weighted provisioning

**Answer: B**

**QUESTION 4**

Which two characteristics are associated with the access layer of a Data Center Unified Fabric network? (Choose two.)

- A. Voice, data, and wireless convergence.
- B. No packet manipulation.
- C. QoS-policing.
- D. Routing manipulation and filtering.
- E. QoS-classification and queuing.

**Answer: AE**

**QUESTION 5**

You must use one logical uplink for Fibre Channel traffic and Ethernet traffic on a Cisco UCS system. Which type of port should you use to accomplish this task?

- A. FCoE storage
- B. server
- C. FCoE uplink

D. uplink

**Answer: C**

**Explanation:**

Each fabric interconnect has a set of ports in a fixed port module that you can configure as either server ports or uplink Ethernet ports. These ports are not reserved. They cannot be used by a Cisco UCS instance until you configure them. You can add expansion modules to increase the number of uplink ports on the fabric interconnect or to add uplink Fibre Channel ports to the fabric interconnect. You need to create LAN pin groups and SAN pin groups to pin traffic from servers to an uplink port.

[https://www.cisco.com/en/US/docs/unified\\_computing/ucs/sw/gui/config/guide/141/UCSM\\_GUI\\_Configuration\\_Guide\\_141\\_chapter5.html](https://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/141/UCSM_GUI_Configuration_Guide_141_chapter5.html)

**QUESTION 6**

Spanning Tree Protocol runs at which functional layer of the data center?

- A. core layer
- B. access layer
- C. application layer
- D. network layer

**Answer: B**

**QUESTION 7**

Which two platforms support the FCoE protocol? (Choose two.)

- A. Cisco Nexus 2332TQ Series
- B. Cisco MDS 9148S Series
- C. Cisco Nexus 7010 Series
- D. Cisco MDS 9222i Series
- E. Cisco Nexus 2248TP Series

**Answer: CD**

**QUESTION 8**

Which two items represent data center virtualization technologies? (Choose two.)

- A. ECMP
- B. GLBP
- C. LUN
- D. VSAN
- E. L2 firewall

**Answer: CD**

**QUESTION 9**

Which technology does Cisco recommend for connecting a main data center to a remote data center?

- A. LISP
- B. OTV
- C. FabricPath

D. vPC

**Answer: B**

**QUESTION 10**

Which two options are advantages when using NPIV? (Choose two.)

- A. Allows a single physical N-Port to have single WWPNs, and therefore single N-Port IDs, associated with it.
- B. NPIV-enabled physical N-Port can subsequently issue additional commands to register more WWPNs and receive more N-Port IDs (one for each WWPN).
- C. Allows a 'single' physical N-Port to have multiple WWPNs, and therefore multiple N-Port IDs, associated with it.
- D. NPV-enabled physical N-Port can subsequently issue additional commands to register more WWPNs and receive more N-Port IDs (one for each WWPN).
- E. Allows 'multiple' single physical N-Port to have multiple WWPNs, and therefore multiple N-Port IDs, associated with it.
- F. N-Port on the physical host would have only a single WWPN (and N-Port ID).

**Answer: BC**

**QUESTION 11**

You have a Cisco UCS B-Series Blade Server chassis connected, which has four 10-Gbps connections to Cisco UCS Fabric Interconnect. You plan to deploy a blade that has ESXi installed. You must provide a dedicated 10-Gbps uplink to the blade. Which two actions should you perform? (Choose two.)

- A. Configure a port channel between the Fabric Interconnect and the IOM.
- B. Implement a QoS policy that has a policy bandwidth and assign the policy to a server profile.
- C. Configure static pinning to the uplink port in the server profile.
- D. Configure dynamic pinning to the uplink port in the server profile.
- E. Configure a vPC between the Fabric interconnect and the IOM.

**Answer: BD**

**QUESTION 12**

What are two benefits of a service insertion that is mediated through the Cisco APIC instead of the classical Ethernet model? (Choose two.)

- A. provides Layer 5 service insertion capability
- B. provides Layer 7 service insertion capability
- C. provides policies that can manage the network and service appliances
- D. can automate the service insertion
- E. provides built-in services, such as Cisco ACE Web Application Firewall and ADC

**Answer: BC**

**QUESTION 13**

Which option accurately describes the OSPF Graceful Restart feature in Cisco NX-OS?

- A. keeps the control plane state active during an OSPF process restart
- B. shuts down the OSPF process gracefully to replace the router
- C. prevents the OSPF process from restarting when the process crashes

D. allows a router to remain in the data forwarding path during an OSPF process restart

**Answer: D**

**Explanation:**

A graceful restart, or nonstop forwarding (NSF), allows OSPFv2 to remain in the data forwarding path through a process restart. When OSPFv2 needs to perform a graceful restart, it sends a link-local opaque (type 9) LSA, called a grace LSA.

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/4\\_2/nx-os/unicast/configuration/guide/l3\\_cli\\_nxos/l3\\_ospf.html#52215](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/4_2/nx-os/unicast/configuration/guide/l3_cli_nxos/l3_ospf.html#52215)

**QUESTION 14**

The classical access layer has its limitations due to a high value in which of the following items?

- A. oversubscription
- B. jitter
- C. cost
- D. 10 Gigabit Ethernet links

**Answer: A**

**QUESTION 15**

Which option can be used to provide a nonproprietary method of load balancing and redundancy between the access and aggregation layers in the data center?

- A. vPC
- B. PAgP
- C. LACP
- D. host vPC

**Answer: C**

**QUESTION 16**

Which access layer technology will provide redundancy if there is a link failure on a server link?

- A. VDC
- B. MPLS
- C. vPC
- D. Cisco OTV

**Answer: C**

**QUESTION 17**

What two options are common switching protocols that are used in the data center? (Choose two.)

- A. MPLS
- B. Frame Relay
- C. FDDI
- D. STP
- E. APPN/APPI

**Answer: AD**

**QUESTION 18**

Which statement accurately describes VSAN-based QoS when the same flow is present in two class maps that are associated to a policy map?

- A. The highest QoS value is used.
- B. The lowest QoS value is used.
- C. The QoS value of the class map that is attached first takes effect.
- D. The QoS value of the class map that is attached last takes effect.

**Answer: C**

**Explanation:**

[http://www.cisco.com/en/US/products/ps5989/products\\_configuration\\_guide\\_chapter09186a0080663141.html](http://www.cisco.com/en/US/products/ps5989/products_configuration_guide_chapter09186a0080663141.html)

**QUESTION 19**

Which statement describes an interconnect link between an FCoE NPV switch and an FCF switch?

- A. The interconnect must use port type NP on the FCoE switch.
- B. The interconnect must use port type VNP on the FCoE switch.
- C. The interconnect must use port type E on the FCoE switch.
- D. The FCoE switch must create the tunnel interface and bind to the physical interconnect.

**Answer: B**

**QUESTION 20**

Which statement accurately describes Ethernet switching mode on a Cisco UCS Fabric Interconnect?

- A. VTP is enabled on the Fabric Interconnect.
- B. PVST+ runs on the Fabric Interconnect.
- C. The uplink ports are placed in a Rapid PVST+ edge trunk state.
- D. The vNICs can be configured for failover.

**Answer: B**

**QUESTION 21**

Which two features are supported by VXLAN on the Cisco NX-OS platform? (Choose two.)

- A. MP-BGP EVPN
- B. DHCP snooping
- C. PIM-SM
- D. OTV
- E. L2TP

**Answer: AC**

**QUESTION 22**

How is oversubscription between disk arrays and hosts calculated when you use only line-rate capable line cards?

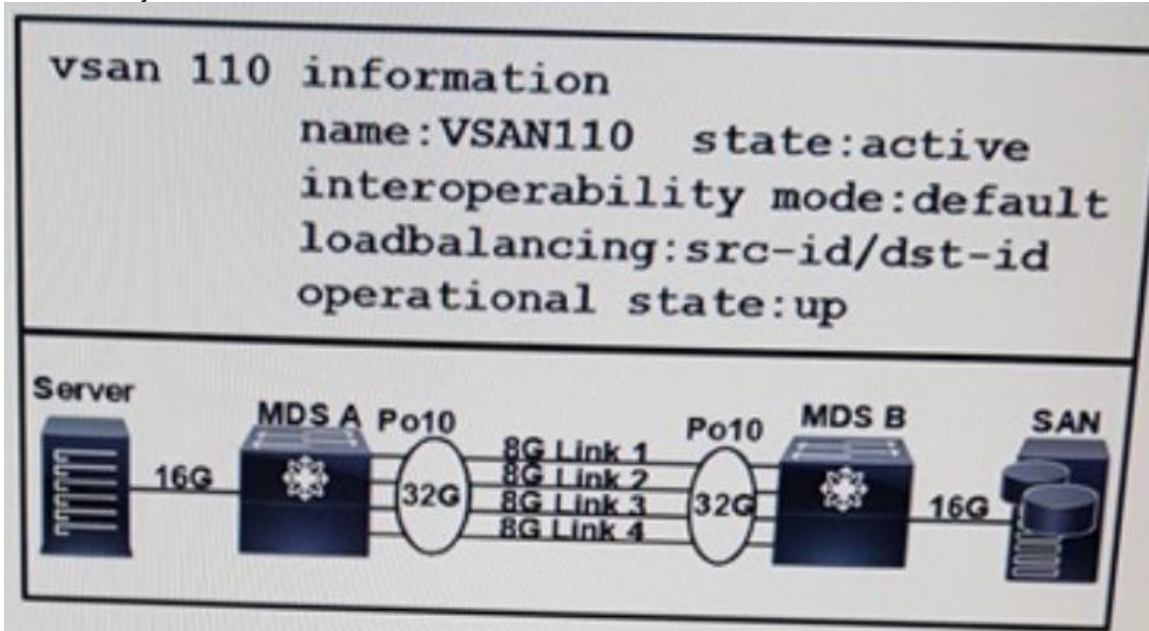
- A. By dividing the total bandwidth of the disk array ports by the total bandwidth of the Inter-Switch Links.
- B. Dividing the total bandwidth of the host ports by the total bandwidth of the disk array ports.

- C. By dividing the total bandwidth of the host ports by the total bandwidth of the Inter-Switch Links.
- D. By dividing the total bandwidth of the disk array ports by the total bandwidth of the host ports.

**Answer: B**

**QUESTION 23**

Refer to the Exhibit. Link 1 handles most of the traffic. Which action do you take to load balance traffic evenly between the server and the SAN?



- A. Enable src-dst-ox0id load balancing on the MDS switches.
- B. Enable src-dst-id load balancing on the MDS switches.
- C. Change the MDS port changgel configuration to source dest port.
- D. Upgrade the bandwidth for the devices connected to the MDS.

**Answer: A**

**QUESTION 24**

When deploying VMWare ESXi on Cisco UCS B Series Servers, what should the iSCSI boot-from-SAN use in the service profile to provide redundancy?

- A. two VMKs to connect to the storage
- B. two vHBAs to connect to the storage
- C. two vnmics to connect to the storage
- D. two vNICs to connect to the storage

**Answer: B**

**QUESTION 25**

Refer to the Exhibit. Which action does Cisco ITD perform when a node fails?

```
node ip 192.168.200.10
node ip 192.168.200.20
node ip 192.168.200.30

itd test
device-group waf-dg
ingress interface Eth1/1
failaction node least-bucket
no shut

switch# sh run rpm

route-map waf_itd_pool permit 10
description auto generated route-map for ITD service waf-itd
match ip address waf_itd_bucket_1
set ip next-hop verify-availability 192.168.200.10 track 2
route-map waf_itd_pool permit 11
description auto generated route-map for ITD service waf-itd
match ip address waf_itd_bucket_2
set ip next-hop verify-availability 192.168.200.20 track 3
route-map waf_itd_pool permit 12
description auto generated route-map for ITD service waf-itd
match ip address waf_itd_bucket_3
set ip next-hop verify-availability 192.168.200.20 track 3
route-map waf_itd_pool permit 13
description auto generated route-map for ITD service waf-itd
match ip address waf_itd_bucket_4
set ip next-hop verify-availability 192.168.200.10 track 2
```

- A. evenly distribute traffic across all the remaining nodes
- B. transparently adds nodes to the waf-dg
- C. assigns failed node buckets to another active node
- D. removes the failed node from the waf-dg

**Answer: C**

**QUESTION 26**

You must provide dedicated bandwidth to a blade server on a Cisco UCS chassis. To which type of ports should you pin the blade server vNICs and vHBAs?

- A. dedicated server
- B. dedicated switch
- C. dedicated uplink
- D. dedicated IOM

**Answer: C**

**QUESTION 27**

Which two options are included in a dynamic vNIC connection policy? (Choose two.)

- A. network control policy



- B. chassis connectivity policy
- C. adapter policy
- D. LAN connectivity policy
- E. number of dynamic vNICs

**Answer: CE**

**QUESTION 28**

Which option must be enabled to allow line-rate forwarding on a Fibre Channel port?

- A. F port
- B. TEport
- C. Dedicated mode
- D. Shared mode
- E. E port

**Answer: E**

**QUESTION 29**

Which SAN port type should you use on an NPIV core switch that connects to an NPV edge switch?

- A. FL
- B. F
- C. N
- D. TE
- E. E

**Answer: C**

**QUESTION 30**

Which type of device can be deployed to add multi-homing capability to an OTV implementation?

- A. vPC
- B. IS-IS
- C. Edge
- D. Layer 2 gateway

**Answer: C**

**QUESTION 31**

Which two options are valid for enabling Layer 3 control between Cisco Nexus 1000V Series VSM and VEM? (Choose two.)

- A. a dedicated packet interface
- B. a virtual Ethernet interface
- C. an out-of-band management interface
- D. a VMware vCenter machine virtual interface
- E. a dedicated control interface

**Answer: CE**

**QUESTION 32**

You are configuring a switch as a LISP xTR. You plan to use the LISP xTR when deploying redundant map servers. Which action do you take?

- A. Register the LISP xTR to the anycast IP address of the map resolver.
- B. Register the LISP xTR to the IP address of each map server.
- C. Configure the map notify group command by using the anycast IP address of the map resolver.
- D. Configure the map-notify group command by using the IP address of each map server.

**Answer: B**

**QUESTION 33**

Which two options can be performed only from the Admin VDCs on the Cisco Nexus 7000 Series platform? (Choose two.)

- A. Create SPAN ports on other VDCs.
- B. Access the CLI of other VDCs.
- C. Configure Cisco FabricPatch in other VDCs.
- D. Create, modify and delete VDCs.
- E. Process data plane traffic.

**Answer: CD**

**QUESTION 34**

Which two statements about OTV are true? (Choose two.)

- A. OTV forwards and processes spanning-tree BPDUs between sites to ensure a loop-free topology.
- B. All OTV overlay interfaces must use the same join interface.
- C. OTV provides STP isolation because it does not transmit BPDUs across the overlay.
- D. OTV utilizes the IS-IS routing protocol to propagate MAC address reachability information.
- E. Multicast support in the transport network is a strict requirement to establish OTV adjacencies.
- F. OTV propagates MAC address reachability information via the underlying IS-IS control-plane.

**Answer: DF**

**Explanation:**

[https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data\\_Center/DCI/whitepaper/DCI3\\_OTV\\_Intro/DCI\\_1.html](https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/DCI/whitepaper/DCI3_OTV_Intro/DCI_1.html)

**QUESTION 35**

You plan to extend the Layer 2 domain by using OTV in multicast mode. What must you consider?

- A. The same site ID must be used on all of the edge devices on all of the sites.
- B. The join interface must run IGMPv3.
- C. The OTV site VLAN must be extended over the overlay.
- D. The site OTV VLAN must be the same on all of the AED routers on all of the sites.

**Answer: B**

**QUESTION 36**

Which components share a physical interface in a VDC deployment?

- A. two VDCs for Ethernet traffic

- B. storage VDC for FCoE traffic and a VDC for Ethernet traffic
- C. two storage VDCs for FCoE traffic
- D. interface VLAN and a VDC

**Answer: B**

**QUESTION 37**

LISP provides which capability?

- A. host connectivity redundancy
- B. physical host mobility
- C. VM mobility
- D. VXLAN mobility

**Answer: B**

**QUESTION 38**

Refer to the Exhibit.

```

N7k1 slot 3 show hardware internal dev-port-map
-----+-----
+-----+++FRONT PANEL PORT TO ASIC INSTANCE MAP+++-----+
-----+-----
FP port|PHYS |SECUR |MAC_0 |IGMR_0 |L2LKP |L3LKP |QUEUE |SWICHP
-----+-----+-----+-----+-----+-----+-----+-----+-----+
1      | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0
2      | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0
3      | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0
4      | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0
5      | 0    | 1     | 0     | 0     | 0     | 0     | 0     | 0
6      | 0    | 1     | 0     | 0     | 0     | 0     | 0     | 0
7      | 0    | 1     | 0     | 0     | 0     | 0     | 0     | 0
8      | 0    | 1     | 0     | 0     | 0     | 0     | 0     | 0
9      | 1    | 2     | 0     | 0     | 0     | 0     | 0     | 0
10     | 1    | 2     | 0     | 0     | 0     | 0     | 0     | 0
11     | 1    | 2     | 0     | 0     | 0     | 0     | 0     | 0
12     | 1    | 2     | 0     | 0     | 0     | 0     | 0     | 0
13     | 1    | 3     | 1     | 0     | 0     | 0     | 0     | 0
14     | 1    | 3     | 1     | 0     | 0     | 0     | 0     | 0
15     | 1    | 3     | 1     | 0     | 0     | 0     | 0     | 0
16     | 1    | 3     | 1     | 0     | 0     | 0     | 0     | 0
17     | 2    | 4     | 1     | 0     | 0     | 0     | 0     | 0

```

You need to allocate all interfaces on the same port ASIC to the same VDC. Which ports share an

ASIC?

- A. ports 1-12
- B. ports 9-17
- C. ports 9-13
- D. ports 1-17

**Answer: A**

**QUESTION 39**

You need to ensure that VXLAN connectivity can survive a chassis failure in a vPC configuration using Cisco Nexus 9300 Series switches. Which address type should be bound to the VLAN NVE tunnel for VTEP to ensure resiliency?

- A. anycast
- B. unicast
- C. multicast
- D. broadcast

**Answer: A**

**QUESTION 40**

What is the default CoS value for FCoE packets on a storage VDC?

- A. 1
- B. 2
- C. 3
- D. 5
- E. 7

**Answer: C**

**QUESTION 41**

Which statement regarding network management for the data center is true?

- A. Flexible NetFlow can be used to provide enhanced network anomaly and security detection.
- B. The Network Analysis Module is best deployed in the core for highest visibility.
- C. NetFlow Support is available on most IOS and Nexus products, excluding the Nexus 1000v.
- D. NetFlow Data Export is best positioned on the Nexus 5500 at the access or aggregation layer.

**Answer: A**

**QUESTION 42**

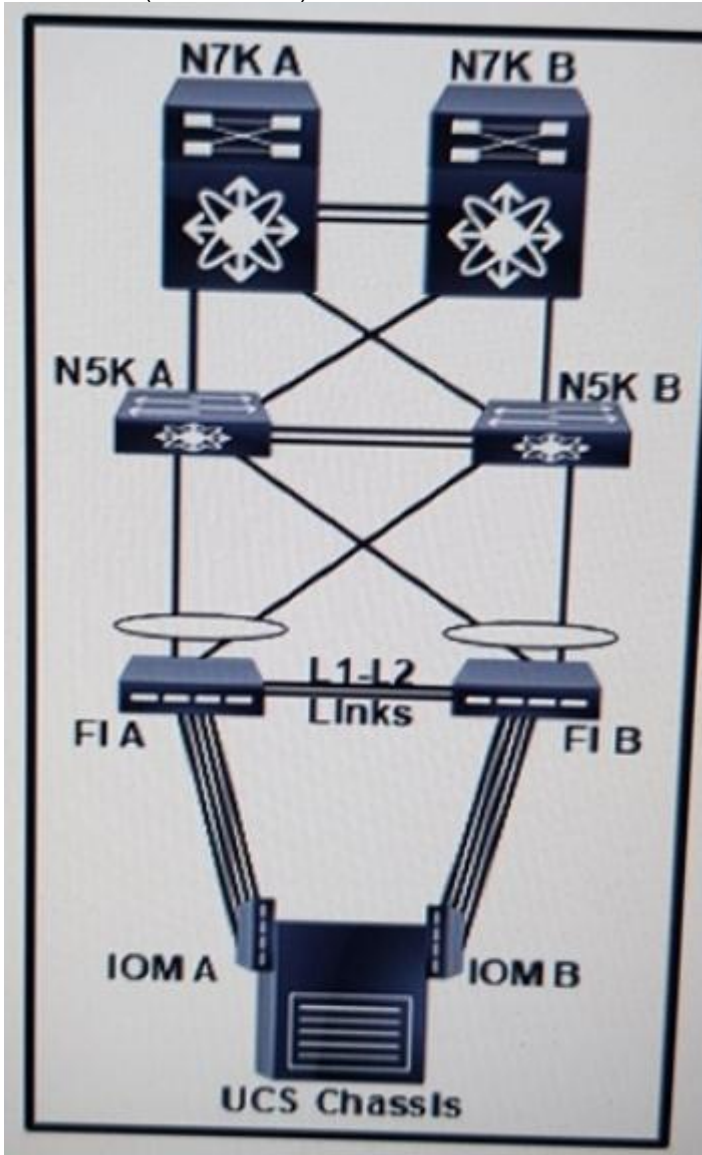
Which use case requires a design that contains multiple VRF instances in a VDC?

- A. Provide VRF-aware services to all Layer 3 interfaces.
- B. Provide a route policy for incoming packets.
- C. Provide routing updates between Layer 3 interfaces.
- D. Provide Layer 3 isolation within a VDC.

**Answer: D**

**QUESTION 43**

Refer to the exhibit. Which two descriptions of the purpose of the L1-L2 links between FI A and FI B are true? (Choose two.)



- A. synchronizes the configuration information
- B. provides a vPC peer link between the fabric interconnects
- C. allows each fabric interconnect to monitor the status of the other fabric interconnect continuously
- D. provides an alternate data path if an upstream link fails
- E. migrates VIFs from FI A to FI B if FI fails

**Answer: AC**

**QUESTION 44**

Which three actions must you perform to implement Cisco FabricPath on a data center network? (Choose three.)

- A. Configure the VLAN in FabricPath mode
- B. Configure the interface to use the STP type of normal
- C. Configure the interfaces in FabricPath mode
- D. Configure the interfaces in trunk mode
- E. Enable the IS-IS feature
- F. Install the FabricPath feature set

**Answer: ACF**

**QUESTION 45**

Which description of UDLD aggressive mode is true?

- A. is enabled by default on all fiber-optic interfaces
- B. can be configured on point-to-multipoint links only
- C. is enabled by default on copper interfaces
- D. can be configured on point-to-point links only

**Answer: D**

**QUESTION 46**

Cisco FabricPath is implemented in a data center. You plan to implement anycast HSRP. What is an advantage of anycast HSRP as compared HSRPv2?

- A. Up to four HSRP gateways can forward traffic simultaneously.
- B. HSRP gateways use BFD for faster failure detection.
- C. An HSRP group can be secured by using MD5.
- D. Up to six HSRP gateways can forward traffic simultaneously.

**Answer: B**

**QUESTION 47**

Which two options are reasons to use Layer 3 routing to segment a data center instead of Layer 2 switching? (Choose two.)

- A. limit the scope Spanning Tree Protocol
- B. limit the scope simplify design
- C. broadcast flooding
- D. ease of routing protocol configuration
- E. cost

**Answer: CD**

**QUESTION 48**

In a three-tier SAN topology, which network layer should you connect the SAN initiators to?

- A. storage edge
- B. core
- C. hostedge
- D. distribution

**Answer: C**

**QUESTION 49**

Which feature can be used to deploy overlapping IP address spaces within a tenant in the Cisco ACI fabric?

- A. private networks
- B. external routed networks
- C. L3Out
- D. bridge domains

**Answer: D**

**QUESTION 50**

Which statement accurately describes Cisco NSF?

- A. To configure NSF for an OSPF routing environment, all Area 0 devices and ABRs must be NSF-aware and must be configured for OSPF graceful restart.
- B. To configure NSF for an IS-IS routing environment, only L1 routers must be NSF-aware and must be configured for IS-IS graceful restart.
- C. To configure NSF for a BGP routing environment, all neighboring devices must be NSF-aware and must be configured for BGP graceful restart.
- D. To configure NSF for an IS-IS routing environment, only L2 routers must be NSF-aware and must be configured for IS-IS graceful restart.

**Answer: C**

**QUESTION 51**

In order to provide a specific UCS B-Series blade access to a dedicated uplink on a Fabric interconnect with multiple uplinks connected, which item must to be configured?

- A. vNIC Placement Policy
- B. IOM Port Group
- C. Static Pinning Policy
- D. LAN Pin Group

**Answer: D**

**QUESTION 52**

Which two statements accurately describe a Cisco UCS Fabric Interconnect cluster? (Choose two.)

- A. Only the active Fabric Interconnect forwards data traffic.
- B. The Fabric Interconnect cluster uses a Cisco UCS B-Series Blade Server chassis to forward data when the L1-L2 links are down.
- C. The Fabric Interconnect cluster uses a virtual IP address for management connections.
- D. The Fabric Interconnect uses L1-L2 links to forward data when the primary Fabric Interconnect uplinks are down.
- E. Primary Fabric Inter connect node comes up after a failure, the node compares the Cisco UCS system database version to Fabric Interconnect.

**Answer: CE**

**QUESTION 53**

Which two types of connections can be used to build data center interconnects via vPC? (Choose two.)

- A. company-owned DWDM
- B. service providers MPLS
- C. service provider IP
- D. service provider DWDM
- E. service provider VPLS

**Answer: BD**

**QUESTION 54**

You plan to configure OTV multicast. What must you enable to use SSM?

- A. IGMFv3
- B. PIM-DM
- C. IGMPv2
- D. PIM-SM
- E. PIM Anycast-RP

**Answer: D**

**QUESTION 55**

Which protocol is best suited for connecting two data centers together?

- A. LISP
- B. OTV
- C. FabricPath
- D. vPC

**Answer: B**

**QUESTION 56**

The ANSI restriction that only 239 Fibre Channel domains are allowed per SAN fabric creates challenges for the designer working on a Cisco Data Center Unified Fabric network. Which two approaches can the designer utilize to restrict the number of Fibre Channel domains below 239? (Choose two.)

- A. Daisy chain up to 100 core Fibre Channel switches, leaving 139 domains for the network edge.
- B. Assign a domain ID for each blade switch and top-of-rack access layer switch.
- C. Use NPV to cause a fabric or blade switch to appear as a host to the core Fibre Channel switch.
- D. Migrate to FCoE to eliminate the need for Fibre Channel domains.
- E. Utilize VSANs to allow scaling well beyond 239 domain IDs.

**Answer: CE**

**QUESTION 57**

Which three options are major reasons to export NetFlow data in v9 format rather than v5? (Choose three.)

- A. IPv6 and MPLS field support.



- B. Well-known fixed field definitions.
- C. Fields for Layer 2 NetFlow.
- D. Version 9 exports are template-based.
- E. Multicast flows are supported in v9 only.
- F. Support for sampled NetFlow.
- G. IPv4 and IPv6 flow statistics can be combined in the same export.
- H. NetFlow v9 supports more granular aging timers.

**Answer:** ACD

**QUESTION 58**

What is configured on an NHRP to trigger failover if an SVI goes down?

- A. BPDU
- B. weight
- C. interface priority
- D. object tracking
- E. local preference
- F. cost

**Answer:** D

**QUESTION 59**

Which statement about the Overlay Transport Virtualization protocol is true?

- A. It is IP-based functionality that provides Layer 3 extension over any transport.
- B. The data plane exchanges MAC reachability info.
- C. The control plane protocol is IS-IS.
- D. It supports FCoE.

**Answer:** C

**QUESTION 60**

Operating systems from which four vendors are supported on Cisco Unified Computing System B-Series servers? (Choose four.)

- A. Citrix
- B. Oracle
- C. SuSE
- D. Ubuntu
- E. Apple
- F. Mandriva
- G. Mageia
- H. Nokia

**Answer:** ABCD

**QUESTION 61**

From a networking perspective, what is one reason to choose a Cisco UCS C-Series rack-mountable server over a Cisco UCS B-Series blade server?

- A. A rack-mountable server has more PCIe buses.
- B. A blade server has fewer network interfaces.
- C. A rack-mountable server can support more vNICs.
- D. A blade server uses virtualization to run more applications, which constrains available bandwidth.

**Answer: A**

**QUESTION 62**

Which three characteristics are associated with the aggregation layer of a Cisco Data Center Unified Fabric network? (Choose three.)

- A. no packet manipulation
- B. QoS-policing
- C. voice, data, and wireless convergence
- D. scalable routing protocols
- E. provides default gateway redundancy
- F. QoS-classification and queuing
- G. routing manipulation and filtering
- H. aggregates end users

**Answer: BEG**

**QUESTION 63**

Which option should be part of network design considerations when proposing a design for Microsoft Exchange 2010 running on Cisco UCS blade servers?

- A. high-availability during fabric failover
- B. proper placement of server role
- C. over committing CPU resources
- D. additional virtual machine scalability

**Answer: A**

**QUESTION 64**

You are designing a Cisco UCS environment that requires RSA SecurID for user authentication. Which authentication method must you include in the design?

- A. a local Cisco UCS user database
- B. LDAP authentication
- C. RADIUS authentication
- D. client certificate authentication

**Answer: C**

**QUESTION 65**

Which Cisco technology would you specify to provide your client's data center with context-aware identity validation and Layer 2 port authentication?

- A. Cisco Security Manager
- B. Cisco NAC Profiler
- C. Cisco TrustSec

- D. Cisco Anti-X
- E. Cisco Virtual Security Gateway

**Answer: C**

**QUESTION 66**

The client's data center manager has requested the physical weights of the equipment in your Cisco UCS design along with the power and cooling requirements. Where in cisco.com can you find this information?

- A. the product datasheets
- B. the Cisco UCS power calculator
- C. the Cisco UCS GUI Configuration Guide
- D. the Cisco UCS Hardware Installation Guide
- E. the Hardware and Software Interoperability Matrix Utility Tool

**Answer: B**

**QUESTION 67**

Which technology differentiates a data center designed around Cisco equipment versus another vendor?

- A. NPV
- B. NPIV
- C. VSANs
- D. FCoE

**Answer: C**

**QUESTION 68**

You are planning to migrate an existing customer infrastructure to a new data center infrastructure. Existing IP addresses must be preserved during the migration. Which three design options must you implement? (Choose three.)

- A. Implement a stretched Layer 2 connection that allows for IP mobility.
- B. The transport network must provide Layer 3 connectivity between the LISP-enabled routers located in the source and destination data centers.
- C. The transport network must provide Layer 2 connectivity between the Cisco FabricPath-enabled routers located in the source and destination data centers.
- D. The transport network must provide Layer 3 connectivity between the OTV-enabled routers located in the source and destination data centers.
- E. The default gateway in each data center is configured to have the same virtual IP address.
- F. The MAC address of the default gateway must be preserved in the new data center.
- G. IS-IS must be configured between the data centers to enable Cisco FabricPath functionality.

**Answer: ABE**

**QUESTION 69**

Which two statements accurately describe NPV on a Cisco Nexus 5000 Series Switch? (Choose two.)

- A. Enabling NPV mode is disruptive to the network.

- B. NPV requires a license for FCoE.
- C. NPV is Cisco-proprietary.
- D. The NPV switch supports N ports and F ports.
- E. In-order data delivery is required in NPV mode.

**Answer: AB**

**QUESTION 70**

Which two options are valid methods for configuring VLANs on a Cisco UCS cluster? (Choose two.)

- A. globally per Cisco UCS cluster
- B. by using Cisco UCS Fabric Interconnect
- C. by using vPC domain configuration
- D. by using VTP
- E. by using CFS

**Answer: AB**

**Explanation:**

<http://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-2104xp-fabric-extender/110517-vlan-config-ucs.html>

**QUESTION 71**

Which software runs on a device that is connected to a TrustSec-enabled port?

- A. Requester
- B. Authenticator
- C. Supplicant
- D. Authentication Proxy

**Answer: C**

**QUESTION 72**

Which component of a Cisco Nexus 1000V Series switch is responsible for propagating configurations to virtual switches?

- A. SUP
- B. FEX
- C. VSM
- D. VEM

**Answer: C**

**Explanation:**

- Product Architecture: The Cisco Nexus 1000V Series Switch has two major components (Figure 1): the virtual Ethernet module (VEM), which runs inside the hypervisor, and the virtual supervisor module (VSM), which manages the VEMs.

- Virtual Supervisor Module: The Cisco Nexus 1000V Series VSM controls multiple VEMs as one logical modular distributed virtual switch. Configuration is performed through the VSM and is automatically propagated to the VEMs.

[http://www.cisco.com/c/en/us/products/collateral/switches/nexus-1000v-switch-vmware-vsphere/data\\_sheet\\_c78-492971.html](http://www.cisco.com/c/en/us/products/collateral/switches/nexus-1000v-switch-vmware-vsphere/data_sheet_c78-492971.html)

**QUESTION 73**

The classical aggregation layer design does not provide isolation on the control plane and on the data plane. What is the solution to this problem?

- A. STP
- B. VDC
- C. Cisco ISO ISSU
- D. HSRP

**Answer: B**

**QUESTION 74**

Which two STP port types are available in Cisco NX-OS? (Choose two.)

- A. normal
- B. edge
- C. blocked
- D. root
- E. point-to-point

**Answer: AB**

**Explanation:**

You can configure a spanning tree port as an edge port, a network port, or a normal port. A port can be in only one of these states at a given time. The default spanning tree port type is normal. Edge ports, which are connected to Layer 2 hosts, can be either an access port or a trunk port.

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/layer2/configuration/guide/b\\_Cisco\\_Nexus\\_7000\\_Series\\_NX-OS\\_Layer\\_2\\_Switching\\_Configuration\\_Guide/config\\_stp.pdf](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/layer2/configuration/guide/b_Cisco_Nexus_7000_Series_NX-OS_Layer_2_Switching_Configuration_Guide/config_stp.pdf)

**QUESTION 75**

Which statement accurately describes the configuration requirements for disjoint Layer 2 networks on Cisco UCS?

- A. The Cisco UCS fabric Interconnect must be in switch mode.
- B. The VLAN IDs must overlap in both Layer 2 domains.
- C. All of the uplinks must be in one port channel to keep all of the ports active.
- D. The Cisco UCS Fabric Interconnect must be in end-host motto.

**Answer: D**

**QUESTION 76**

In which OTV transport mode must an AED router create multiple copies of each control plan packet?

- A. site-to-site
- B. unicast-only
- C. multicast
- D. anycast

**Answer: B**

**Explanation:**

<http://www.cisco.com/c/en/us/products/collateral/routers/asr-1000-series-aggregation-services-routers/guide-c07-735942.pdf>

**QUESTION 77**

You are evaluating the use of a VMware virtual switch or a Cisco Nexus 1000V Series distributed virtual switch. Which two options describe benefits of using the Cisco Nexus 1000V Series distributed virtual switch? (Choose two.)

- A. provides unified network management and operations
- B. allows policies to be applied to individual virtual machines
- C. lowers the power consumption of the Cisco UCS servers
- D. reduces the deployment time of the virtual machine
- E. provides a graphical interface to configure virtual machine policies

**Answer: AB**

**QUESTION 78**

Which command does a mainframe use for all subsequent logins for either virtual machines or logical partitions, after the initial connection and login process?

- A. F-Port login process
- B. N-Port ID Virtualization
- C. FDISC login commands
- D. Fibre Channel IDs

**Answer: C**

**QUESTION 79**

Which two statements about OTV are true? (Choose two.)

- A. OTV join interfaces must be physical interfaces.
- B. OTV supports authentication of hello messages and control plane PDUs.
- C. Multicast support in the transport network is a strict requirement to establish OTV adjacencies.
- D. All OTV overlay interfaces must use the same join interface.
- E. OTV forwards and processes spanning-tree BPDUs between sites to ensure a loop-free topology.
- F. OTV propagates MAC address reachability information via the underlying IS-IS control-plane.

**Answer: BF**

**Explanation:**

The Join interface is a Layer 3 entity and with the current NX-OS release can only be defined as a physical interface (or subinterface) or as a logical one (i.e. Layer 3 port channel or Layer 3 port channel subinterface). A single Join interface can be defined and associated with a given OTV overlay. Multiple overlays can also share the same Join interface.

[http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data\\_Center/DCI/whitepaper/DCI3\\_OTV\\_Intro.pdf](http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Data_Center/DCI/whitepaper/DCI3_OTV_Intro.pdf)

**QUESTION 80**

You plan to use vPC+ in a FabricPath topology. What are two characteristics of a vPC+ switch ID? (Choose two.)

- A. must be set to 255
- B. must be set manually
- C. can be reused in the FabricPath topology
- D. must be the same on each vPC+ peer
- E. must be different on each vPC+ peer

**Answer: CD**

**QUESTION 81**

Which technology provides the ability to use all links in a LAN topology by providing an active-active path to the upstream switch?

- A. STP
- B. vPC
- C. PVST+
- D. RSTP

**Answer: B**

**QUESTION 82**

Which two characteristics are associated with the core layer of a Data Center Unified Fabric network? (Choose two.)

- A. Layer 2 default gateway redundancy
- B. QoS-policing
- C. No packet manipulation
- D. QoS-classification and queuing
- E. Scalable routing protocols like OSPF

**Answer: CE**

**QUESTION 83**

Which two terms relate to the capability of a physical NIC to present virtual NICs to the operating system or hypervisor? (Choose two.)

- A. VM-FEX
- B. NPIV
- C. Adapter-FEX
- D. NIV
- E. Host vPC
- F. NIC teaming

**Answer: CD**

**QUESTION 84**

You use Cisco UCS Central to manage Cisco UCS. Which statement accurately describes how local and global policies are applied?

- A. A local policy is applied by using Cisco UCS Central, and a global policy is applied by using Cisco UCS Director.
- B. A local policy is applied by using Cisco UCS Manager, and a global policy is applied by using Cisco UCS Central.
- C. A local policy is applied by using Cisco UCS Director, and a global policy is applied by using Cisco UCS Central.
- D. A local policy is applied by using Cisco UCS Central, and a global policy is applied by using Cisco UCS Manager.

**Answer: B**

**QUESTION 85**

A customer is interested in endpoint security at the access layer, which option is Cisco

recommended?

- A. ACLs
- B. DAI
- C. TrustSec
- D. Stateful inspection
- E. UDLD

**Answer: C**

**QUESTION 86**

Service graphs are used to define which option on the Cisco ACI platform?

- A. a function that a contract must use to get to another contract
- B. a function that an EPG must use to get to another EPG
- C. the contract between two EPGs
- D. the Cisco APIC definitions of the contracts in REST API

**Answer: B**

**QUESTION 87**

Which technology uses TCP as a block I/O transport?

- A. iSCSI
- B. NFS v4
- C. CIFS
- D. FCoE

**Answer: A**

**QUESTION 88**

Which two options are advantages of the core-edge SAN topology as compared to the collapsed-core SAM topology? (Choose two.)

- A. predictable performance
- B. minimized ISL usage
- C. easier to analyze and tune performance
- D. single management interface
- E. higher scalability

**Answer: AE**

**Explanation:**

[https://supportforums.cisco.com/t5/data-center-documents/core-edge-and-collapse-core-san-topologies/ta-p/3149001#Core-Edge\\_Topology](https://supportforums.cisco.com/t5/data-center-documents/core-edge-and-collapse-core-san-topologies/ta-p/3149001#Core-Edge_Topology)

**QUESTION 89**

Which two actions must be performed when you configure Cisco VN-Link in hardware? (Choose two.)

- A. Create a distributed virtual switch in Cisco UCS Manager.
- B. Add an ESX host to the distributed virtual switch in Cisco UCS Manager.



- C. Create a port profile and profile clients in Cisco UCS Manager.
- D. Create a standard switch on an ESXi host and map the network adapters to the switch.
- E. Create a distributed virtual switch under the datacenter folder in VMware vCenter.

**Answer: AC**

**QUESTION 90**

Which two options represent an access layer solution designed to accelerate server virtualization, that is managed just like other network devices in the data center? (Choose two.)

- A. MPIO
- B. Host vPC
- C. VEM
- D. VSS
- E. VSM

**Answer: CE**

**Explanation:**

When server virtualization is implemented, the edge of the network is pushed from the traditional network access layer, which is implemented in physical switches, to the virtual network access layer that is implemented through the software in the Server Hypervisor. The Cisco Nexus 1000V is an intelligent virtual network access layer switch that runs Cisco NX-OS, which is Cisco's data center operating system common to all of Cisco's data center products.

[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus1000/hyperv/sw/5\\_2\\_1\\_s\\_m\\_1\\_5\\_2c/521\\_SM1\\_52c\\_rns.pdf](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus1000/hyperv/sw/5_2_1_s_m_1_5_2c/521_SM1_52c_rns.pdf)

**QUESTION 91**

You must configure resiliency for Fibre Channel uplink ports on Cisco UCS Fabric Interconnects. Which feature should you configure?

- A. an appliance port
- B. vPC
- C. a port channel
- D. a unified storage port

**Answer: C**

**QUESTION 92**

Which technology provides additional scalability and simplification of an Ethernet network, providing more efficient forwarding and eliminating the need for the STP?

- A. OTV
- B. vPC
- C. PVST+
- D. FabricPath

**Answer: D**

**QUESTION 93**

Which type of switch interfaces are supported in classic NPV mode for a Fibre Channel network?

- A. the vFC internal port and the physical external port

- B. the physical internal port and the physical external port
- C. the vFC internal port and the vFC external port
- D. the vFC external port and the physical internal port

**Answer: D**

**QUESTION 94**

Which technology can you use to create separate routing tables for different tenants that are hosted on the same Cisco NX-OS platform?

- A. Cisco FabricPath
- B. VLANs
- C. vPC
- D. VRF

**Answer: D**

**Explanation:**

[http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/vxlan/configuration/guide/b\\_NX-OS\\_VXLAN\\_Configuration\\_Guide/configuring\\_vxlan\\_flood\\_and\\_learn.html](http://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/vxlan/configuration/guide/b_NX-OS_VXLAN_Configuration_Guide/configuring_vxlan_flood_and_learn.html)

**QUESTION 95**

Which two options are reasons to use Layer 3 routing to segment a data center instead of Layer 2 switching? (Choose two.)

- A. limit the scope of Spanning Tree Protocol
- B. simplify design
- C. ease of routing protocol configuration
- D. limit the scope of broadcast flooding
- E. cost

**Answer: CD**

**QUESTION 96**

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**QUESTION 122**

You have a Cisco Nexus 5500 Series switch. What is the default load-balancing hash mechanism for traffic on FCoE port channels?

- A. the source MAC address
- B. the source IP address and the destination IP address
- C. the source MAC address and the destination MAC address
- D. the source TCP or UDP port and the destination TCP or UDP port

**Answer: B**

**Explanation:**

On Nexus 5500 the default load balancing mechanism on the LACP port-channel for FCoE traffic is "source-destination". In this default state, all the FCoE traffic takes the same link in the port-channel when the Nexus 5500 forwards frames over FCoE VE ports. In order to enable all links to be used in the port-channel for FCoE traffic, enter the port-channel load-balance ethernet source-dest-port command to configure Nexus 5500 "port-channel load balancing" to "source-dest-port".

With this configuration "source-destination-oxid" load balancing is used for FCoE traffic.  
<https://www.cisco.com/c/en/us/support/docs/switches/nexus-5000-series-switches/116298-configure-nexus-00.html>

**QUESTION 123**

Which two options are supported on Cisco UCS Fabric Interconnects that use native Fibre Channel connectivity? (Choose two.)

- A. iSCSI
- B. NFS
- C. DAS
- D. SAN
- E. iFCP

**Answer: CD**

**QUESTION 124**

Which component is required to run FCoE?

- A. converged network adapter
- B. iSCSI gateway
- C. host bus adapter
- D. Fibre Channel adapter

**Answer: A**

**Explanation:**

Computers can connect to FCoE with converged network adapters (CNAs), which contain both Fibre Channel host bus adapter (HBA) and Ethernet Network Interface Card (NIC) functionality on the same adapter card. CNAs have one or more physical Ethernet ports. FCoE encapsulation can be done in software with a conventional Ethernet network interface card, however FCoE CNAs offload (from the CPU) the low level frame processing and SCSI protocol functions traditionally performed by Fibre Channel host bus adapters.

[https://en.wikipedia.org/wiki/Fibre\\_Channel\\_over\\_Ethernet](https://en.wikipedia.org/wiki/Fibre_Channel_over_Ethernet)

**QUESTION 125**

**Drag and Drop**

Drag the solution on the left to the appropriate business requirement on the right, such that the solution solves the requirement.	
Inbound traffic inspection	Consolidation
Multicore blade servers	Agile computing environments
Hypervisors	Seperation
Virtualization	Security

**Answer:**

Drag the solution on the left to the appropriate business requirement on the right, such that the solution solves the requirement.

Inbound traffic inspection	Multicore blade servers
Multicore blade servers	Hypervisors
Hypervisors	Virtualization
Virtualization	Inbound traffic inspection

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