



Vendor: Cisco

Exam Code: 300-160

**Exam Name: Designing Cisco Data Center Infrastructure
(DCID) v6.0**

Version: Demo

QUESTION 1

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).

Correct Answer: BC

QUESTION 2

Which component is required to run FCoE?

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

Correct 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.

QUESTION 3

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

Correct Answer: B

QUESTION 4

Which two Nexus 7000 licenses are required to manage FabricPath from Cisco Data Center Network Manager (DCNM)? (Choose two.)

- A. Nexus 7000 Enhanced Layer 2 License

- B. Nexus 7000 Transport Services License
- C. Cisco DCNM for SAN Advanced Edition for Nexus 7000
- D. Nexus 7000 LAN Enterprise License
- E. Cisco DCNM for Nexus 7000
- F. Nexus 7000 Scalable Feature License

Correct Answer: AE

QUESTION 5

When you configure FCIP, which two types of acceleration can you enable to maximize WAN link utilization? (Choose two)

- A. SCSI write
- B. link
- C. SCSI tape
- D. WAN
- E. IP

Correct Answer: AC

Explanation:

http://www.cisco.com/en/US/products/ps5989/products_configuration_guide_chapter09186a0080664e20.html

QUESTION 6

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

Correct Answer: CD

QUESTION 7

You have a Cisco UCS Fabric Interconnect that connects to upstream switches via four 10-Gbps port channels. You have a fully populated Cisco UCS B-Series Blade Server chassis that has a UCS-IOM 2208XP installed and uses all of the ports for the blade servers. What is the oversubscription ratio between the chassis and the upstream switch?

- A. 6:1
- B. 3:1
- C. 2:1
- D. 4:1

Correct Answer: B

QUESTION 8

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

Correct 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

QUESTION 9

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

Correct Answer: B

QUESTION 10

You deploy new server infrastructure by using a Cisco UCS platform. Which two design options can you use to increase the redundancy of the new compute solution? (Choose two.)

- A. a 10-Gb uplink port
- B. a pin vNic in the server profile to a specific Fabric Interconnect node that has failover disabled
- C. adding multiple ports to uplink port channels
- D. static pinning at the server ports
- E. more than one server port to connect the Cisco UCS B-Series blade IOM

Correct Answer: BC

QUESTION 11

Which description is true when you configure a Cisco Nexus 7000 Series switch as an FCoE switch?

- A. You can use M-Series and F-Series modules in the storage VDC.
- B. You can configure an FCoE port in any VDC.
- C. You can forward IP traffic from the storage VDC.
- D. You can configure an FCoE port to be shared between the storage VDC and one other VDC.

Correct Answer: B

QUESTION 12

Which protocol must the NICs, CNAs, and underlying physical data center network fabric support to enable lossless iSCSI?

- A. DCBX
- B. FSPF
- C. TRILL
- D. PBB

Correct Answer: A

QUESTION 13

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.

Correct Answer: B

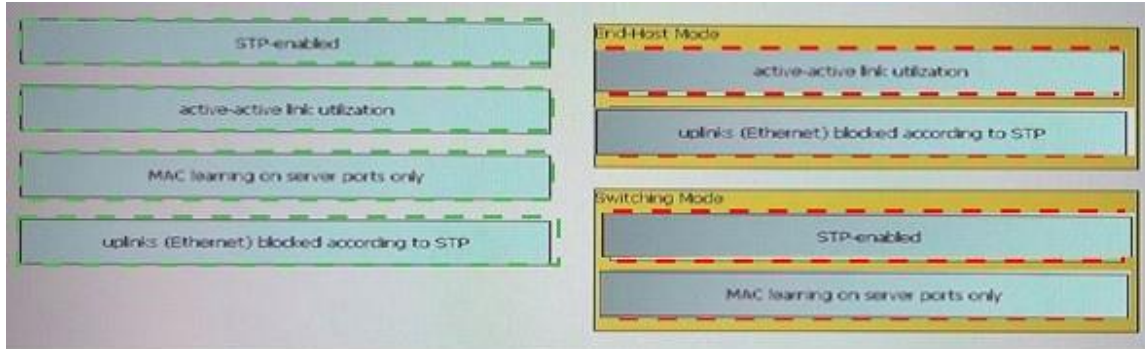
QUESTION 14

DRAG DROP

Drag and drop each Cisco UCS Fabric Interconnect feature on the left to the correct forwarding mode on the right.

The image shows a drag-and-drop interface. On the left, there are four light blue boxes containing the following text: "STP-enabled", "active-active link utilization", "MAC learning on server ports only", and "uplinks (Ethernet) blocked according to STP". On the right, there are two yellow boxes representing forwarding modes. The top box is labeled "End-Host Mode" and contains two empty slots. The bottom box is labeled "Switching Mode" and also contains two empty slots.

Correct Answer:



QUESTION 15

What is the most common design requirement when creating a data center solution?

- A. high availability with disaster recovery
- B. multicore CPU servers
- C. traffic inspection for inbound traffic
- D. virtualization of network resources

Correct Answer: A

QUESTION 16

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

Correct Answer: D

QUESTION 17

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

Correct Answer: AE

Explanation:

https://supportforums.cisco.com/document/125836/core-edge-and-collapse-core-san-topologies#Core-Edge_Topology

QUESTION 18

Which item represents a method of increasing storage utilization efficiency?

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

Correct Answer: B

QUESTION 19

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

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

Correct Answer: A

QUESTION 20

You plan to configure LISP between two data centers. Which two LISP components must be configured? (Choose two.)

- A. VTEP
- B. the site identifier
- C. a map resolver
- D. a map server
- E. VNI

Correct Answer: CD

Explanation:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_lisp/configuration/xr-3s/irl-xe-3s-book/irl-cfg-lisp.html

QUESTION 21

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

Correct Answer: C