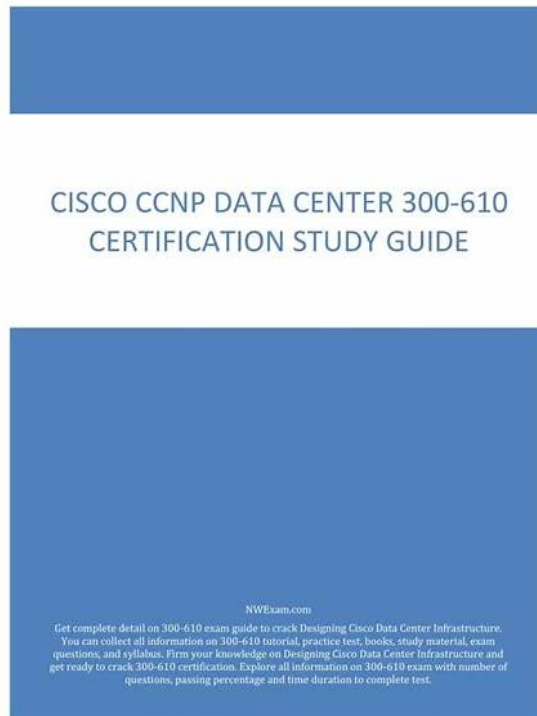


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Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q52-Q57):

NEW QUESTION # 52

Which type fields can an engineer use to identify an iSCSI participant? (Choose two.)

- A. preshared key
- B. identifying tag
- C. type
- D. port number
- E. hostname

Answer: D,E

Explanation:

<https://en.wikipedia.org/wiki/ISCSI>

NEW QUESTION # 53

A network architect designs a high-availability architecture for the Cisco UCS Fabric Interconnects that are installed in a data center. The architecture must support clustering and redundancy.

Which architecture meets these requirements?

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

Answer: B

Explanation:

https://subscription.packtpub.com/book/networking_and_servers/9781782170662/10/ch10lvlsec92/configuring-high-availability-clustering

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

To use the cluster configuration, the two fabric interconnects must be directly connected together using Ethernet

cables between the L1 (L1-to-L1) and L2 (L2-to-L2) high availability ports, with no other fabric interconnects in between. This allows the two fabric interconnects to continuously monitor the status of each other and quickly know when one has failed.

NEW QUESTION # 54

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

Answer: B

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

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 # 55

Refer to the exhibit. The FCoE packets fail to be forwarded through the switch.

What is the minimum MTU QoS requirement for the FCoE to work?

```
Switch(config-sys-qos)# show policy-map system
Type network-qos policy-maps
```

```
=====
```

```
policy-map type network-qos system
  class type network-qos class-fcoe
    match qos-group 1
    pause no-drop
    mtu 2000
  class type network-qos class-default
    match qos-group 0
    mtu 1500
Service-policy (qos) input: system
policy statistics status: disabled
Class-map (qos) : class fcoe (match-any)
  Match : cos 3
  set qos-group 1
Class-map (qos) : class-default (match-any)
  Match: any
  set qos-group 0
```

- A. 2000 bytes
- B. 2158 bytes
- C. 9000 bytes
- D. 2240 bytes

Answer: B

Explanation:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5000/sw/qos/521_n1_1/b_5k_QoS_Config_521N11/b_5k_QoS_Config_521N11_chapter_0110.html
"The FCoE system class (for Fibre Channel and FCoE traffic) has a default MTU of 2158 bytes. This value cannot be modified."

NEW QUESTION # 56

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

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

Answer: C

NEW QUESTION # 57

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