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Designing Cisco Data Center Infrastructure (DCID)

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Cisco 300-610 (Designing Cisco Data Center Infrastructure) certification exam is a professional-level certification designed for network architects, engineers, and designers who are responsible for designing data center infrastructure. Designing Cisco Data Center Infrastructure certification exam is designed to validate the candidate's knowledge and skills in designing data center infrastructure, including network infrastructure, compute infrastructure, storage infrastructure, and virtualization infrastructure.

Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q173-Q178):

NEW QUESTION # 173

A network engineer is designing a Cisco Hyperflex infrastructure. The infrastructure will be connected to an external SAN fiber channel array and must support Microsoft clustering.

Which storage connectivity method must be used to meet these requirements?

- A. raw device mapping
- B. server message block
- C. Internet Small Computer Systems Interface
- **D. Fibre Channel over Ethernet**

Answer: D

Explanation:

Reference:

[HyperFlex_HX_DataPlatformSoftware/Network_External_Storage_Management_Guide/b_HyperFlex_Systems_Network_and_External_Storage_Management_Guide_3_0/b_HyperFlex_Systems_Network_and_External_Storage_Management_Guide_3_0_chapter_010.html](#)

NEW QUESTION # 174

A company must integrate an iSCSI storage solution into its existing production environment. The new iSCSI network must be accessible from a limited set of network segments. The client devices follow a strict network security policy to access critical data from the storage array.

Which design steps must be used to meet these requirements?

- A. Place the iSCSI storage appliance on the core switch to isolate it in a private VLAN. Configure a token-based authentication between the storage array and the clients.
- B. Connect the iSCSI storage appliance on the core switch in vPC mode. Configure a token-based authentication between the storage array and the clients.
- C. Connect the iSCSI storage appliance on the core switch using a dedicated port. Apply the session mutual authentication (CHAP) method between the targets and initiators.
- **D. Deploy the iSCSI storage appliance on the core switch in a separate VRF. Apply the session mutual authentication (CHAP) method between the targets and initiators.**

Answer: D

NEW QUESTION # 175

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

Answer: A,B

Explanation:

N-Port ID Virtualization (NPIV)

NPIV allows a Fibre Channel host connection or N-Port to be assigned multiple N-Port IDs or Fibre Channel IDs (FCID) over a single link. All FCIDs assigned can now be managed on a Fibre Channel fabric as unique entities on the same physical host. Different applications can be used in conjunction with NPIV. In a virtual machine environment where many host operating systems or applications are running on a physical host, each virtual machine can now be managed independently from zoning, aliasing, and security perspectives.

<https://community.cisco.com/t5/unified-computing-system/npiv-npv-in-ucs/td-p/3356950>

<https://www.cisco.com/c/en/us/support/docs/storage-networking/mds-9000-series-multilayer-switches/200127-N-Port-Identifier-Virtualization-NPIV.html>

<https://www.ciscolive.com/c/dam/r/ciscolive/apjc/docs/2016/pdf/BRKCOM-2007.pdf>

NEW QUESTION # 176

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

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

Answer: B

Explanation:

Flooding Based Learning -> Control-Plane Based Learning

Move to a Control Plane protocol that proactively advertises MAC addresses and their reachability instead of the current flooding mechanism

https://www.cisco.com/c/dam/en_us/solutions/industries/docs/gov/otv.pdf

NEW QUESTION # 177

An engineer is designing a data center that uses FCIP. How is QoS configured in this environment?

- **A. Two separate DSCP values must be configured, one of all of the FCIP frames in the control TCP connection and another for all of the FCIP frames in the data connection.**
- B. A separate DSCP value must be configured for all FCIP VSAN traffic.
- C. A separate DSCP value and priority queuing must be configured for all FCIP traffic.
- D. A separate DSCP value and CoPP must be configured for all FCIP traffic and another for all of the FCIP in the data connection.

Answer: A

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/mds9000/sw/5_0/configuration/guides/ipsvc/nxos/ipsvc/cfcip.html

NEW QUESTION # 178

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