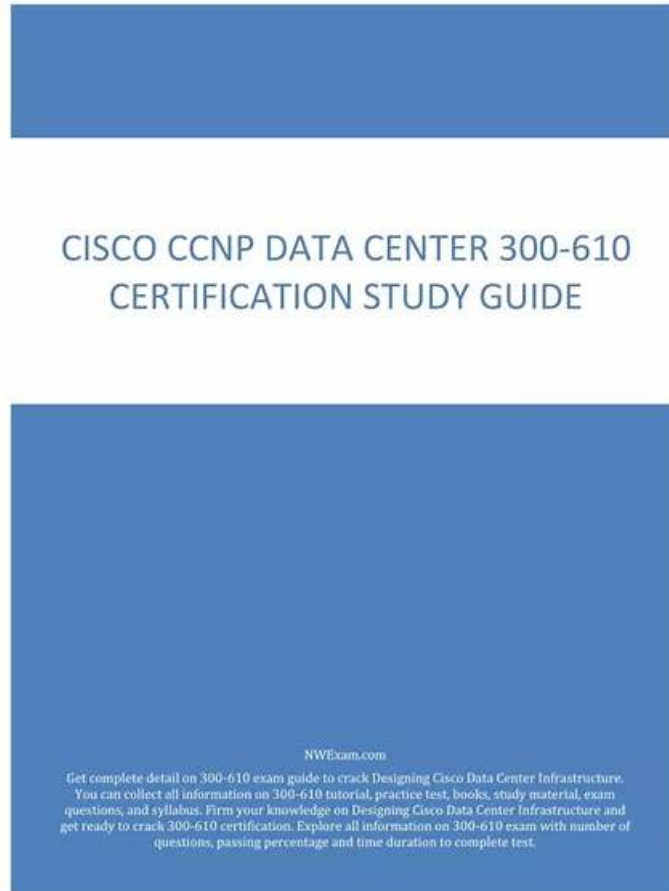


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To prepare for the Cisco 300-610 exam, candidates are advised to take the Designing Cisco Data Center Infrastructure (DCID) course. This course covers all the topics that are tested in the exam and provides hands-on experience in designing data center infrastructure using Cisco technologies. Candidates can also use study materials such as books, practice exams, and online courses to prepare for the exam.

Cisco 300-610 Certification Exam, also known as Designing Cisco Data Center Infrastructure, is a highly sought-after certification for IT professionals looking to validate their skills in designing data center infrastructure. Designing Cisco Data Center Infrastructure certification exam is designed to test the candidate's knowledge and skills in various areas related to data center design, such as network design, storage design, compute design, and virtualization design.

Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q71-Q76):

NEW QUESTION # 71

An engineer must connect an existing Cisco Fabric Interconnect to an IP-based storage array. The connection be a channel made directly between the fabric interconnect expansion module and the storage array. The engineer must also consider that the environment is running FCoE for storage and uses QoS to prioritize traffic. Which port type should be used to meet these requirements?

- A. Uplink
- B. server
- C. Network
- **D. Appliance**

Answer: D

Explanation:

Reference:

Definition of a Unified Storage Port

Prior to UCS Release 2.1(1a), **appliance ports only worked for IP-based storage traffic**, such as the Network File System (NFS) and the Internet Small Computer System Interfaces (iSCSIs). In UCS Releases 2.1(1a) and later, the ability for both IP-based storage and Fibre Channel over Ethernet (FCoE) to be used on the same interface was added. This type of interface is called a Unified Storage port. In order to use this feature, the storage controller must have a Converged Network Adapter (CNA) that is capable of FCoE and traditional Ethernet on the same port.

NEW QUESTION # 72

Which orchestration tool provides a graphical interface to manage LAN and SAN fabrics?

- A. Cisco Data Center Network Manager
- **B. Cisco Virtual Topology System**
- C. Cisco CloudCenter
- D. Cisco Nexus Fabric Manager

Answer: B

NEW QUESTION # 73

A customer asks an engineer to develop a framework to configure Cisco services that will be used to replace process of manual device configuration. The engineer plans to use a programmatic interface and must keep these considerations in mind:

- The customer's environment requires the script to authenticate before executing further actions.
- The customer's security requirements mandate the use of HTTPS

transport.

- The support stall has limited shell scripting knowledge, so the scripts should be easy to read and write and be self-documenting.

Which two solutions should be used to meet these requirements? (Choose two.)

- A. Python scripts
- B. REST calls
- C. YAML
- D. domain-based policies
- E. Bash scripts

Answer: A,B

Explanation:

Python scripts: Cisco NX-OS natively supports Python scripting, which is easy to read and write, and well-suited for automation tasks with strong community support. Python can easily handle authentication and HTTPS transport using libraries like requests or urllib3. This matches the requirement of low shell scripting knowledge and self-documenting code.

REST calls: Cisco devices provide REST APIs that support HTTPS transport and authentication mechanisms. REST API calls can be made from Python scripts (or other clients) to programmatically configure Cisco devices, making this a widely used and secure automation method.

NEW QUESTION # 74

An engineer must build a VXLAN flood-and-learned network. The customer requires the solution to be based on the IETF documented practice in RFC 7348. The solution must use broadcast, unknown unicast, and multicast (BUM) and include the efficient BUM and short BUM replication modes that use only shared trees. Which technology meets these requirements?

- A. MVPN
- B. PIM SSM
- C. PIM sparse mode
- D. Bidirectional PIM

Answer: D

NEW QUESTION # 75

Refer to the exhibit. A midsize company is running a traditional iSCSI storage infrastructure on a set of Cisco UCS B200 M6 servers, which are connected to a Cisco MDS 9124 SAN fabric. The infrastructure includes a VMware ESXi supervisor, and each host creates iSCSI/VMHBA adapters to link the physical NICs to their respective VMkernel ports. Which action must the engineering team take to improve the performance and scalability of the iSCSI storage infrastructure?

Service Profile: ESXi2

Server: 1/1

Fabric ID: A

Path ID: 1

VIF	vNIC	Link State	Oper State	Prot State	Prot Role	Admin Pin	Oper Pin	Transport
234	Vnic2	Up	Active	No Protection	Unprotected	0/0/0	0/0/1	Ether
422	ISCSI-A	Up	Active	No Protection	Unprotected	0/0/0	0/0/1	Ether

Fabric ID: B

Path ID: 1

VIF	vNIC	Link State	Oper State	Prot State	Prot Role	Admin Pin	Oper Pin	Transport
323	4Vnic1	Up	Active	No Protection	Unprotected	0/0/0	0/0/1	Ether
422	ISCSI-B	Up	Active	No Protection	Unprotected	0/0/0	0/0/1	Ether

- A. Implement Cisco LACP protocol on the ESXi hosts and UCS servers.
- B. Implement VNIC teaming on the UCS B200 M6 servers.
- C. Implement IP addresses from the same subnet to all iSCSI initiators and targets without subnetting.
- D. Implement Multipathing Protocol on the ESXi supervisors.

Answer: D

Explanation:

