300-610^{Q&As}

Designing Cisco Data Center Infrastructure (DCID)

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QUESTION 1

Refer to the exhibit.

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.

A cloud provider service provider deployed three geographically separated Cisco ACI data centers. One of the customers needs to host a clustered application that is spread across the three data centers. The cluster nodes that host the application need a layer 2 topology to communicate with each other.

Which Cisco ACI topology design meets these requirements?

A. Multi-site

B. Multi-pod over MP-BGP EVPN

C. Multi-cloud

D. Multi-pod over OSPF EVPN

Correct Answer: A

Each data center has its own APIC cluster. This is multi-site setup.

QUESTION 2

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:

1.

The customer\\'s environment requires the script to authenticate before executing further actions.

2.

The customer\\'s security requirements mandate the use of HTTPS transport.

3.

The support stall has limited shell scripting knowledge, so the scripts should be easy to read and write and be serf-documenting. Which two solutions should be used to meet these requirements? (Choose two.)

A. Python scripts

B. REST calls

C. Bash scripts

D. domain-based policies

E. YAML

Correct Answer: AB

QUESTION 3

Refer to the exhibit.

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.

A customer runs an Online Transaction Processing (OLTP) application on Server1. The application generates a small number of transactions and requires low storage latency. Server2 is a backup server that performs backups twice a day During the backup window, the OLTP application experiences high-latency spikes that affect the application performance The customer must meet these requirements

1.

aintain consistent low I/O latency for the OLTP server.

2.

uarantee I/O throughput for the OLTP server during backup time

3.

llow the customer to keep the existing hardware. Which action must be taken to meet these requirements?

A. Apply a traffic shaper to the FC Switch 1 interface that is facing the server

B. Create a SAN port channel between FC Switch! and FC Switch2.

C. Add another 8G link to the Serverl and create F-Port-channel

D. Configure QoS and scheduler for data traffic on both Fibre Channel switches

Correct Answer: D

QUESTION 4

DRAG DROP

Drag the requirements from the left onto the correct policy types on the right.

Select and Place:

Support tagging policies.	**Cisco Intersight Global Policy**
Scrub disks on disassociation.	
Synchronize server power state.	
Create a utility partition on a SD card.	**Cisco UCS Manager Local Policy**
Implement Hypervisor password policies.	

Correct Answer:

Cisco Intersight Global Policy

- Implement Hypervisor password policies.
- Synchronize server power state.
- Support tagging policies.

Cisco UCS Manager Local Policy

- Scrub disks on disassociation.
- Create a utility partition on a SD card.

QUESTION 5

An engineer is experiencing performance issues on a cisco UCS blade server. The B-series blade server contains four CPUs, most of which are idle. The engineer notices that the CPU is suffering from too many requests sent by the NIC. Additionally, the number of queues appears to be insufficient and only a single CPU is processing the network traffic.

Which policy must be used to alleviate these issues?

A. Ethernet adapter

B. vNIC placement

C. LAN connectivity

D. Dynamic vNIC connection

Correct Answer: D