



Free Questions for 300-610

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## Question 1

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Question Type: MultipleChoice

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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?

Options:

- A- Ethernet adapter
- B- vNIC placement
- C- LAN connectivity
- D- Dynamic vNIC connection

Answer:

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A

Explanation:

[https://www.cisco.com/en/US/docs/unified\\_computing/ucs/sw/gui/config/guide/141/UCSM\\_GUI\\_Configuration\\_Guide\\_141\\_chapter19.html](https://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/141/UCSM_GUI_Configuration_Guide_141_chapter19.html)

Ethernet adapter policy is the only policy that is having configuration that is related to CPU.

## Question 2

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Question Type: MultipleChoice

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Refer to the exhibit In this scenario a Cisco engineer is building a loop-free topology where a dedicated layer of the vPC domain adjacent to the aggregation layer which also runs vPC is used to interconnect the two data centers together. The engineer globally configures a vPC domain identifier on both vPC devices where the domain ID is the same on both peer devices. Which action successfully forms the domain?

Options:

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- A- Configure vPC-peer-keepalive link on both peer devices
- B- Put peer device interfaces into a suspended state.
- C- Enable and reuse an ISL Layer 3 trunk port channel
- D- Synchronize the MAC addresses for the member ports

Answer:

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A

### Question 3

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Question Type: MultipleChoice

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A network consultant evaluates the Ethernet Adapter Policy configuration to be applied to the Cisco UCS blade servers. The policy must minimize latency and increase throughput for sensitive applications. The solution must increase the CPU data cache hit rate to meet these requirements. Which policy is required?

Options:

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- A- AIC
- B- ARFS
- C- NVM-e
- D- RDMA

Answer:

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B

### Question 4

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Question Type: MultipleChoice

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An engineer wants to eliminate the manual process of checking the system hardware and firmware against a specified hardware compatibility tool. The tool must be able to manage an extensive list of devices including Cisco HyperFlex, MDS, and Nexus switches. The tool must manage hardware in multiple data centers so it should be deployed on public cloud infrastructure. Which tool meets these requirements?

Options:

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- A- Cisco intersight
- B- Cisco UCS director
- C- Cisco data center network manager
- D- Cisco tetration

Answer:

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A

## Question 5

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Question Type: MultipleChoice

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A network architect designs the iSCSI-based storage area network solution. The iSCSI datastore must be designed with high availability, minimal downtime, and no single point of failure. The requirement is to fail over I/O to alternate paths based on SCSI sense codes without reliance on network failures.

Which feature must be deployed to meet these requirements?

Options:

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- A- hardware-based flow control
- B- port security
- C- iSCSI multipath
- D- NIC teaming

Answer:

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C

## Question 6

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Question Type: MultipleChoice

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An engineer working for a private telecommunication company with an employee ID 4419 90 979 is installing a pair of Nexus 7000 Series Switches and must deploy the solution with these requirements

\* The environment must be separated for test and production purposes

- \* The separation should include control, data and management plane with fault domain isolation and improved security
- \* The test environment needs only F2 series line cards and a maximum of 256 VLANs

Which set of actions meets these requirements?

### Options:

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A- Use VRF faQUMLife environments

Configure allow feature set for both VRFs

Enable limit-resource vlan minimum for the test VRF

B- Use VDC for each of the environments

Configure limit-resource module-type functionality for the test VDC

Enable limit resource vlan for the test VDC.

C- Use VDC for each of the environments

Configure allow feature set for both VRFs

Enable limit-resource vlan maximum for the test VRF

D- Use VRF for each of the environments

Configure limit-resource module-type functionality for the test VDC.

Enable module-type for the VRF

### Answer:

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B

## Question 7

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Question Type: MultipleChoice

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A cloud service provider provisioned four active/active data centers in various locations within the country at 50 miles between each data center. The data centers must provide redundant network infrastructure and always be available to customers.

Which two data center design steps must be used to meet these requirements? (Choose two.)

### Options:

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A- Provide application hosting services to customers from the closest data center.

B- Implement active cluster in data centers 1 and 2 and backup in 3 and 4.

C- Use asynchronous replication between data centers 1 and 2.

D- Deploy database services in data center 1 and application layer to other data centers.

E- Configure application data replication to all backup data centers.

Answer:

A, E

## Question 8

Question Type: MultipleChoice

An engineer finishes the initial set up of a VXLAN EVPN network. The engineer is asked to plan for connectivity that supports redundancy and extends multiple virtual routing and forwarding domains. The requirement is to use the same default gateway addressing across all leaf switches that belong to the VXLAN network. Which two solution must be used to meet these requirements? (Choose two)

Options:

- A- spanning tree protocol
- B- VRF-lite
- C- Distributed anycast gateway
- D- DC interconnect
- E- Inter-site network

Answer:

C, D

Explanation:

[https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9300/software/release/16-12/configuration\\_guide/vxlan/b\\_1612\\_bgp\\_evpn\\_vxlan\\_9300\\_cg/configuring\\_evpn\\_vxlan\\_anycast\\_gateway.html](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9300/software/release/16-12/configuration_guide/vxlan/b_1612_bgp_evpn_vxlan_9300_cg/configuring_evpn_vxlan_anycast_gateway.html)

<https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/white-paper-c11-739942.html>

### EVPN VXLAN Distributed Anycast Gateway

Distributed anycast gateway feature for EVPN VXLAN is a default gateway addressing mechanism that enables the use of the same gateway IP addresses across all the leaf switches that are part of a VXLAN network. This ensures that every leaf switch can function as the default gateway for the workloads directly connected to it. The feature facilitates flexible workload placement, host mobility and optimal traffic forwarding across the VXLAN fabric.

EVPN Multi-Site architecture allows the extension of Layer 2 and Layer 3 segments beyond a single site. Using EVPN Multi-Site architecture, you can extend Layer 2 VNIs to enable seamless endpoint mobility and address other use cases that require communication bridged beyond a single site. Use cases involving Layer 3 extension beyond a single site primarily require multitenant awareness or VPN services. With the multitenant capability in BGP EVPN and specifically in EVPN Multi-Site architecture, multiple VRF instances or tenants can be extended beyond a single site using a single control plane (BGP EVPN) and a single data plane (VXLAN).

EVPN Multi-Site architecture can also be used for DCI scenarios (Figure 3). As with the compartmentalization and scale-out within a data center, EVPN Multi-Site architecture was built with DCI in mind. The overall architecture allows single or multiple sites per data center to be positioned and interconnected with single or multiple sites in a remote data center. With seamless and controlled Layer 2 and Layer 3 extension through the use of VXLAN BGP EVPN within and between sites, the capabilities of VXLAN BGP EVPN itself have been increased. The new functions related to network control, VTEP masking, and BUM traffic enforcement are only some of the features that help make EVPN Multi-Site architecture the most efficient DCI technology.

## Question 9

Question Type: MultipleChoice

An engineer needs an orchestration and monitoring tool that should be used for managing the storage networks and VXLAN fabrics. The tool should also allow support built-in dashboard and real-time health summary for managed devices. Which tool meets these requirements?

Options:

- A- Cisco Intersight
- B- Ansible
- C- Puppet
- D- Cisco DCNM

Answer:

D

## Question 10

Question Type: MultipleChoice

An engineer must design a multitenant solution using Cisco 7709 switches. The solution must support separate routing instances, separate spanning tree domains, and separate firewalls for each tenant. Which solution meets these requirements?

Options:

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- A- CFS
- B- VDC
- C- vPC
- D- VRF

Answer:

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B





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