



Free Questions for 300-610

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Question 1

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/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 2

Question Type: MultipleChoice

An engineer is operating data center environment that hosts data-intensive financial applications. The applications are mostly processing HTTP/HTTPS data with large data segments, which results in a CPU contention due to the significant network processing.

Which set of the Ethernet adapter DCI policies must be selected to resolve the issue?

- A.
 - Receive Checksum Offload field set to Disabled
 - TCP Segmentation Offload field set to Disabled
 - Transmit Queues field: 32
 - Ring Size field: 256
- B.
 - Receive Checksum Offload field set to Enabled
 - TCP Segmentation Offload field set to Disabled
 - Transmit Queues field: 64
 - Ring Size field: 128
- C.
 - Receive Checksum Offload field set to Enabled
 - TCP Segmentation Offload field set to Enabled
 - Transmit Queues field: 128
 - Ring Size field: 64
- D.
 - Receive Checksum Offload field set to Disabled
 - TCP Segmentation Offload field set to Enabled
 - Transmit Queues field: 256
 - Ring Size field: 128

Options:

- A- Option A
- B- Option B
- C- Option C
- D- Option D

Answer:

B

Question 3

Question Type: MultipleChoice

A network architect proposes a distinct Fibre Channel fabric to be used for a Cisco UCS blade server that hosts critical applications. Which action should be implemented for the fibre Channel traffic from the vHBA of this service to pass through the I/O module in the Cisco chassis to a specified uplink Fibre Channel port?

Options:

- A- Include a SAN pin group in the vHBA policy.
- B- Update the applied Fibre Channel adapter policy.
- C- Update the applied global QoS policy.
- D- Enable persistent binding in the vHBA policy.

Answer:

A

Explanation:

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-manager/GUI-User-Guides/Storage-Mgmt/3-2/b_UCSM_GUI_Storage_Management_Guide_3_2/b_UCSM_GUI_Storage_Management_Guide_3_2_chapter_0110.pdf

SAN Pin Groups

Cisco UCS uses SAN pin groups to pin Fibre Channel traffic from a vHBA on a server to an uplink Fibre Channel port on the fabric interconnect. You can use this pinning to manage the distribution of traffic from the servers.

Question 4

Question Type: MultipleChoice

A customer is implementing a business continuity solution for the current data centers. The new location must mitigate the impact of a disaster in any existing data centers by providing an acceptable level of service. The solution must support

* fully segregated Layer 2 and 3 fault domains

- * low or no human intervention for service restoration
- * medium to high RPO/RTO for a subset of applications
- * asynchronous storage replication for application data

Which disaster recovery solution must the customer select to meet these requirements?

Options:

- A- identical infrastructure facility ready to provide service
- B- mirrored inactive infrastructure facility with fully stretched resources
- C- cold infrastructure facility with basic infrastructure
- D- partially equipped infrastructure facility for on-demand activation

Answer:

A

Question 5

Question Type: MultipleChoice

A Cisco engineer is configuring MPLS VPN BGP at a customer site that is connected to the provider site by more than one path. MPLS VPN BGP Local Convergence link protection is enabled. After the engineer installs the main forwarding path and the redundant backup path within the BGP, they assign a unique route distinguisher to each VRF table on all PE devices that serve as a backup to the link. What is a prerequisite for this local convergence to work?

Options:

- A- Interautonomous system option A (back-to-back VRF) is active.
- B- BGP must support lossless switchover between operational paths
- C- IP/GRE is enabled.
- D- The system is performing a PE-CE link protection on both ends

Answer:

D

Question 6

Question Type: MultipleChoice

The end users report issues with datastore reachability between the newly installed virtual machines (VMs) and the storage array. The VMs are deployed on a Cisco C-Series server, directly connected with Cisco Nexus 5672UP switches over FCoE VLAN. The data traffic on VLAN 99, which is designated as a native VLAN, reaches its default gateway, but FCoE VLAN 99 fails to access the datastore. Which action resolves the problem?

Options:

- A- Implement FCoE traffic on VLAN 10 and data traffic on VLAN 99.
- B- Implement host-facing FCoE ports as spanning-tree port type edge.
- C- Configure the FCoE VLAN in the VSAN database before including it in the trunk port.
- D- Configure the FCoE VLAN traffic on a separate interface from any other VLANs that traverse the network.

Answer:

C

Question 7

Question Type: MultipleChoice

A network engineer must select a high availability feature for their data center. The solution must ensure network resilience, reduce network instability for Layer 3 routing protocols, and meet these requirements:

The device must notify its neighbors when the control plane is undergoing a restart.

The solution must suppress routing flaps in case of stateful switchovers.

Which solution must be implemented?

Options:

- A- BFD
- B- HSRP
- C- NSF
- D- ISSU

Answer:

C

Question 8

Question Type: MultipleChoice

A customer requires a tool to manage Cisco network hardware. The solution must use secure communication using a secure network protocol, support the use of declarative language to manage the state of resources, and periodically pull changes to the controlled nodes. Which tool meets these requirements?

Options:

- A- Ansible
- B- SaltStack
- C- Puppet
- D- Nomir

Answer:

C

Question 9

Question Type: MultipleChoice

The network infrastructure team is beginning to automate routine tasks within the Cisco ACI fabric and is searching for the appropriate solution. The solution must not require any additional software installed on the Cisco APIC. Networking team members lack automation experience and prefer to use a tool that does not require in-depth programming knowledge. Finally, configuration within the Cisco ACI fabric is rarely modified or removed. Which solution must the team choose?

Options:

- A- Cobra SDK
- B- Ansible
- C- Terraform

D- Puppet

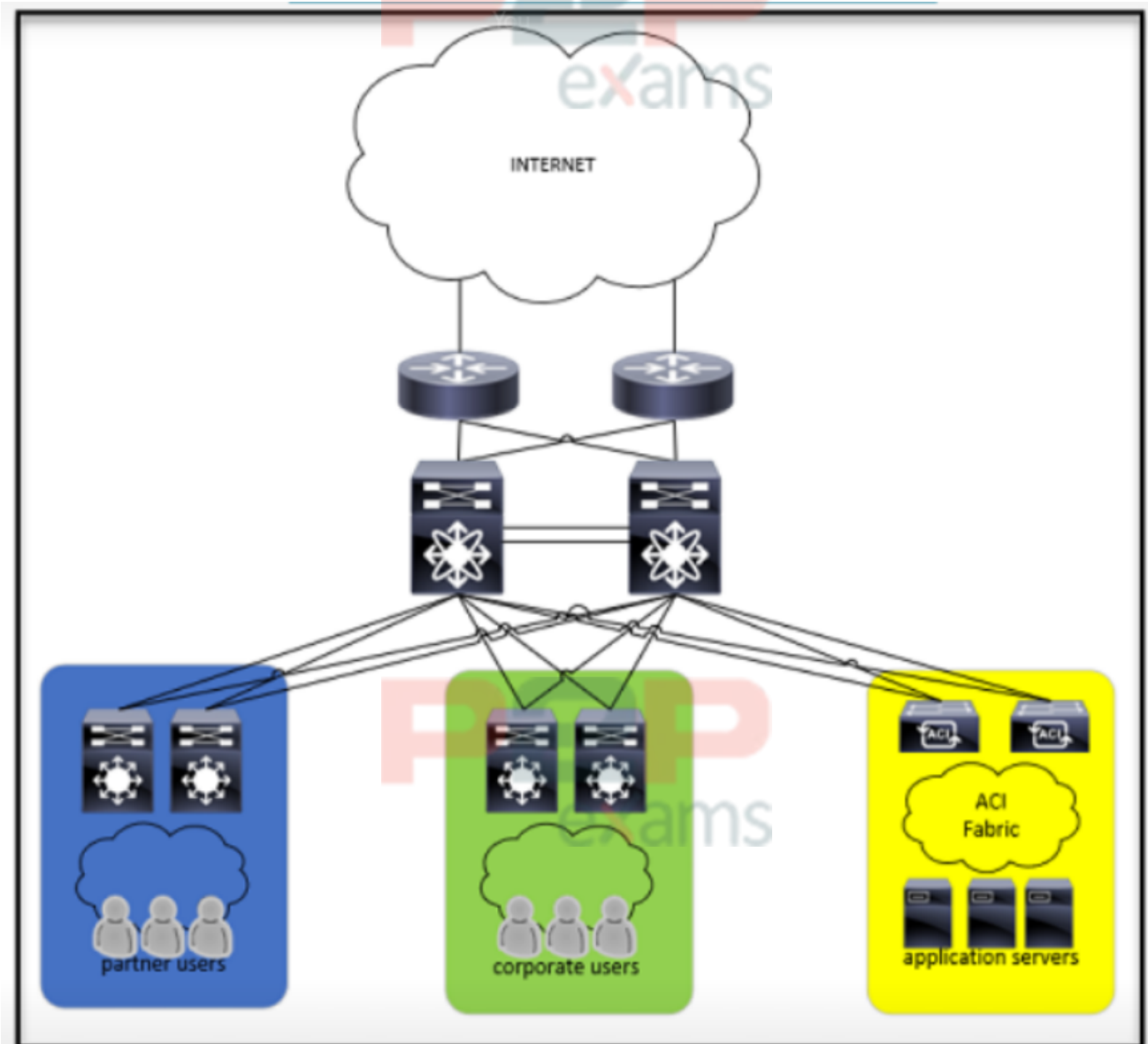
Answer:

A

Question 10

Question Type: MultipleChoice

Refer to the exhibit.



The security team created a new security policy that requires certain types of traffic to be subject to deep packet inspection. The traffic types are

* internet traffic to application servers

- * internet traffic to corporate users
- * partner network traffic to application servers
- * partner network traffic to corporate users

Where must the next-generation firewalls be inserted to implement the new policy?

Options:

- A- one-armed insertion from the core switch cluster
- B- inline insertion between the edge router cluster and the core switch cluster
- C- one-armed insertion from the ACI border leaf cluster
- D- inline insertion between the user network switch cluster and the core cluster

Answer:

C

Question 11

Question Type: MultipleChoice

Refer to the exhibit.



```
switch# show interface fc 1/1
fc1/1 is up
Hardware is Fibre Channel, SFP is short wave laser w/o OFC (SN)
Port WWN is 22:01:00:05:30:01:1f:02
Admin port mode is F
snmp traps are enabled
Port mode is F, FCID is 0xec0002
Port vsan is 1
Speed is 4 Gbps
Rate mode is shared
Transmit B2B Credit is 64
Receive B2B Credit is 16
Receive data field Size is 2112
Beacon is turned off
5 minutes input rate 0 bits/sec, 0 bytes/sec, 0 frames/sec
5 minutes output rate 0 bits/sec, 0 bytes/sec, 0 frames/sec
213 frames input, 17311 bytes
0 discards, 0 errors
0 CRC, 0 unknown class
0 too long, 0 too short
332 frames output, 22344 bytes
0 discards, 0 errors
0 input OLS, 0 LRR, 1 NOS, 0 loop inits
1 input OLS, 0 LRR, 0 NOS, 0 loop inits
16 receive B2B credit remaining
64 transmit B2B credit remaining
```

A customer must ensure that the interface on a switch has enough resources to sustain the line rate traffic during peak load.

Which action meets this requirement?

Options:

- A- Change the rate mode to dedicated.
- B- Set Transmit B2B credit to 16.
- C- Change the port mode to NL.
- D- Increase the data field size to 9000 bytes.

Answer:

A

Question 12

Question Type: MultipleChoice

An ACI deployment must:

- Only use a proxy for border leaf switches.
- Classify incoming traffic on L3OUT.
- Immediately update the endpoint database when the endpoint moves between leaf switches.

Which VRF configuration must be used?

- Ingress Policy Control enforcement
 - Enforce Subnet Check enabled
 - IP Dataplane Learning disabled
- Enforce Subnet Check disabled
 - IP Dataplane Learning disabled
 - Ingress Policy Control enforcement
- Ingress Policy Control enforcement
 - Egress Policy Control enforcement
 - IP Dataplane Learning enabled
- Enforce Subnet Check enabled
 - IP Dataplane Learning enabled
 - Egress Policy Control enforcement

Options:

- A- Option A
- B- Option B
- C- Option C
- D- Option D

Answer:

C

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