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Number: 300-620  
Passing Score: 800  
Time Limit: 120 min  
File Version: 1.0



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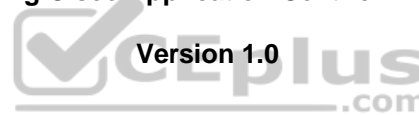
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300-620

Implementing Cisco Application Centric Infrastructure



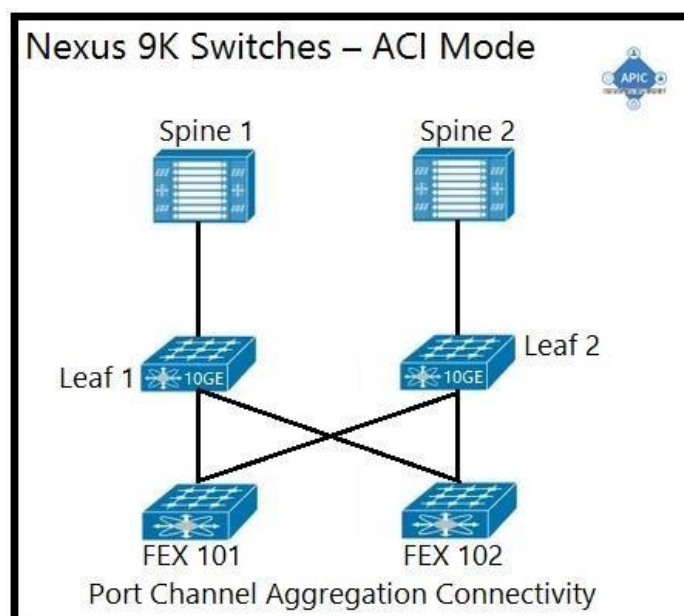
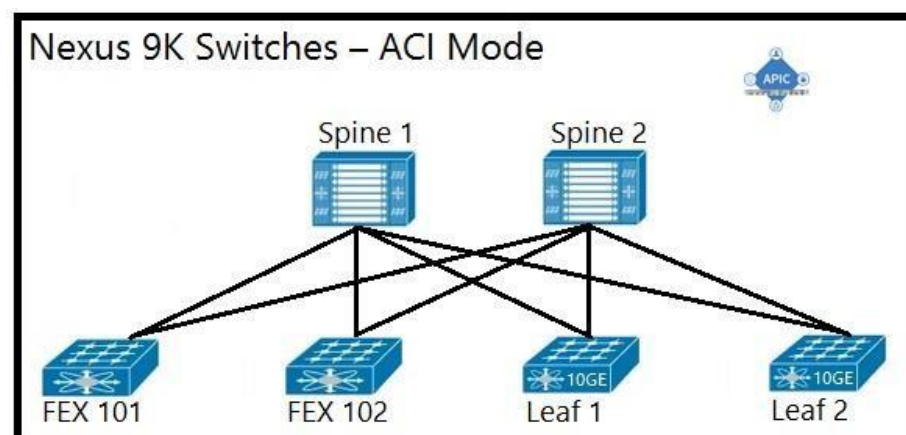
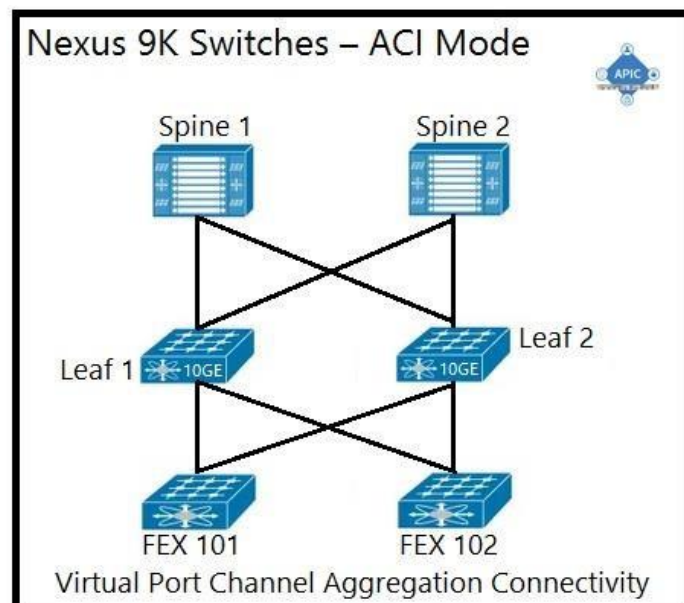
#### Sections

1. ACI Fabric Infrastructure
2. ACI Packet Forwarding
3. External Network Connectivity
4. Integrations
5. ACI Management
6. ACI Anywhere

Exam A

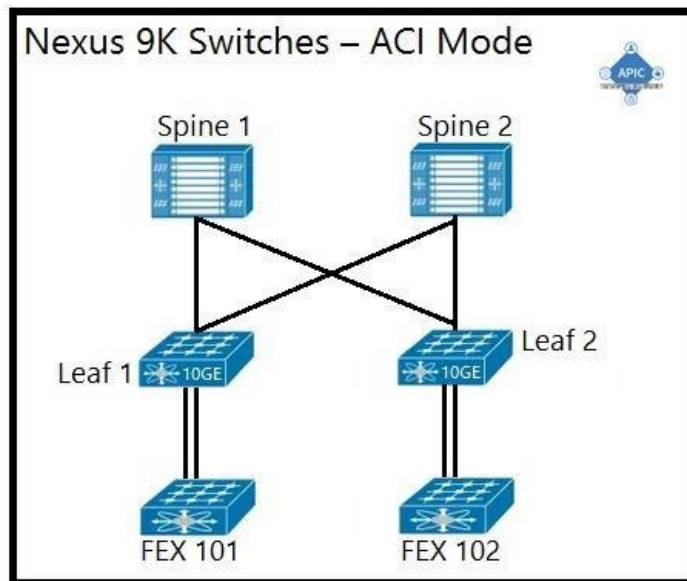
QUESTION 1

An engineer is implementing a Cisco ACI data center network that includes Cisco Nexus 2000 Series 10G fabric extenders. Which physical topology is supported? A.



B.

C.



D.

**Correct Answer: D**

**Section: ACI Fabric Infrastructure**

**Explanation**

**Explanation/Reference:**

#### QUESTION 2

An ACI administrator notices a change in the behavior of the fabric. Which action must be taken to determine if a human intervention introduced the change?

- A. Inspect event records in the APIC UI to see all actions performed by users.
- B. Inspect /var/log/audit\_messages on the APIC to see a record of all user actions.
- C. Inspect audit logs in the APIC UI to see all user events.
- D. Inspect the output of **show command history** in the APIC CLI.

**Correct Answer: A**

**Section: ACI Fabric Infrastructure**

**Explanation**

**Explanation/Reference:**

#### QUESTION 3

An engineer is creating a configuration import policy that must terminate if the imported configuration is incompatible with the existing system. Which import mode achieves this result?

- A. merge
- B. atomic
- C. best effort
- D. replace

**Correct Answer: B**

**Section: ACI Fabric Infrastructure**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/4-x/aci-fundamentals/Cisco-ACI-Fundamentals-401/Cisco-ACI-Fundamentals-401\\_chapter\\_01011.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/4-x/aci-fundamentals/Cisco-ACI-Fundamentals-401/Cisco-ACI-Fundamentals-401_chapter_01011.html)

#### QUESTION 4

Which components must be configured for the BGP Route Reflector policy to take effect?

- A. spine fabric interface overrides and profiles
- B. access policies and profiles
- C. pod policy groups and profiles
- D. leaf fabric interface overrides and profiles

**Correct Answer:** A

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/4-x/L3-configuration/Cisco-APIC-Layer-3-Networking-Configuration-Guide-401/Cisco-APIC-Layer-3-Networking-Configuration-Guide-401\\_chapter\\_01.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/4-x/L3-configuration/Cisco-APIC-Layer-3-Networking-Configuration-Guide-401/Cisco-APIC-Layer-3-Networking-Configuration-Guide-401_chapter_01.html)

#### QUESTION 5

Which type of policy configures the suppression of faults that are generated from a port being down?

- A. fault lifecycle assignment
- B. event lifecycle assignment
- C. fault severity assignment
- D. event severity assignment

**Correct Answer:** C

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/all/faults/guide/b\\_APIC\\_Faults\\_Errors/b\\_IFC\\_Faults\\_Errors\\_chapter\\_01.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/all/faults/guide/b_APIC_Faults_Errors/b_IFC_Faults_Errors_chapter_01.html)

**QUESTION 6** Which type of profile needs to be created to deploy an access port policy group?

- A. attachable entity
- B. Pod
- C. module
- D. leaf interface

**Correct Answer:** A

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating\\_ACI/guide/b\\_Cisco\\_Operating\\_ACI/b\\_Cisco\\_Operating\\_ACI\\_chapter\\_0110.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating_ACI/guide/b_Cisco_Operating_ACI/b_Cisco_Operating_ACI_chapter_0110.html)

#### QUESTION 7

A situation causes a fault to be raised on the APIC. The ACI administrator does not want that fault to be raised because it is not directly relevant to the environment. Which action should the administrator take to prevent the fault from appearing?

- A. Under **System -> Faults**, right-click on the fault and select **Acknowledge Fault** so that acknowledged faults will immediately disappear.
- B. Create a stats threshold policy with both rising and falling thresholds defined so that the critical severity threshold matches the squelched threshold.
- C. Under **System -> Faults**, right-click on the fault and select **Ignore Fault** to create a fault severity assignment policy that hides the fault.
- D. Create a new global health score policy that ignores specific faults as identified by their unique fault code.

**Correct Answer:** C

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

**QUESTION 8** A RADIUS user resolves its role via the Cisco AV Pair. What object does the Cisco AV Pair resolve to?

- A. tenant
- B. security domain
- C. primary Cisco APIC
- D. managed object class

**Correct Answer:** D

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

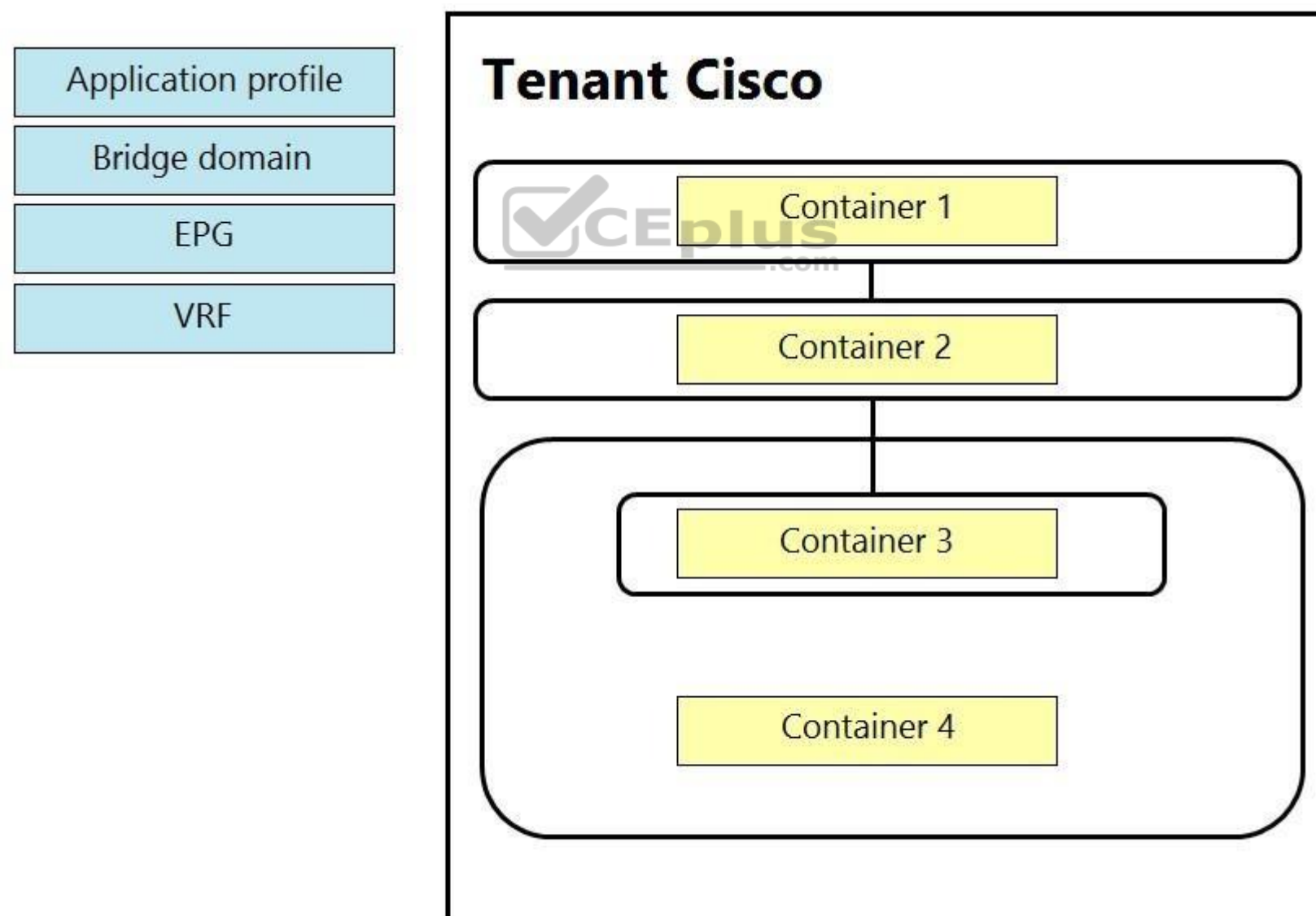
Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/Security\\_config/b\\_Cisco\\_APIC\\_Security\\_Configuration\\_Guide/b\\_Cisco\\_APIC\\_Security\\_Guide\\_chapter\\_01011.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/Security_config/b_Cisco_APIC_Security_Configuration_Guide/b_Cisco_APIC_Security_Guide_chapter_01011.html)

**QUESTION 9**

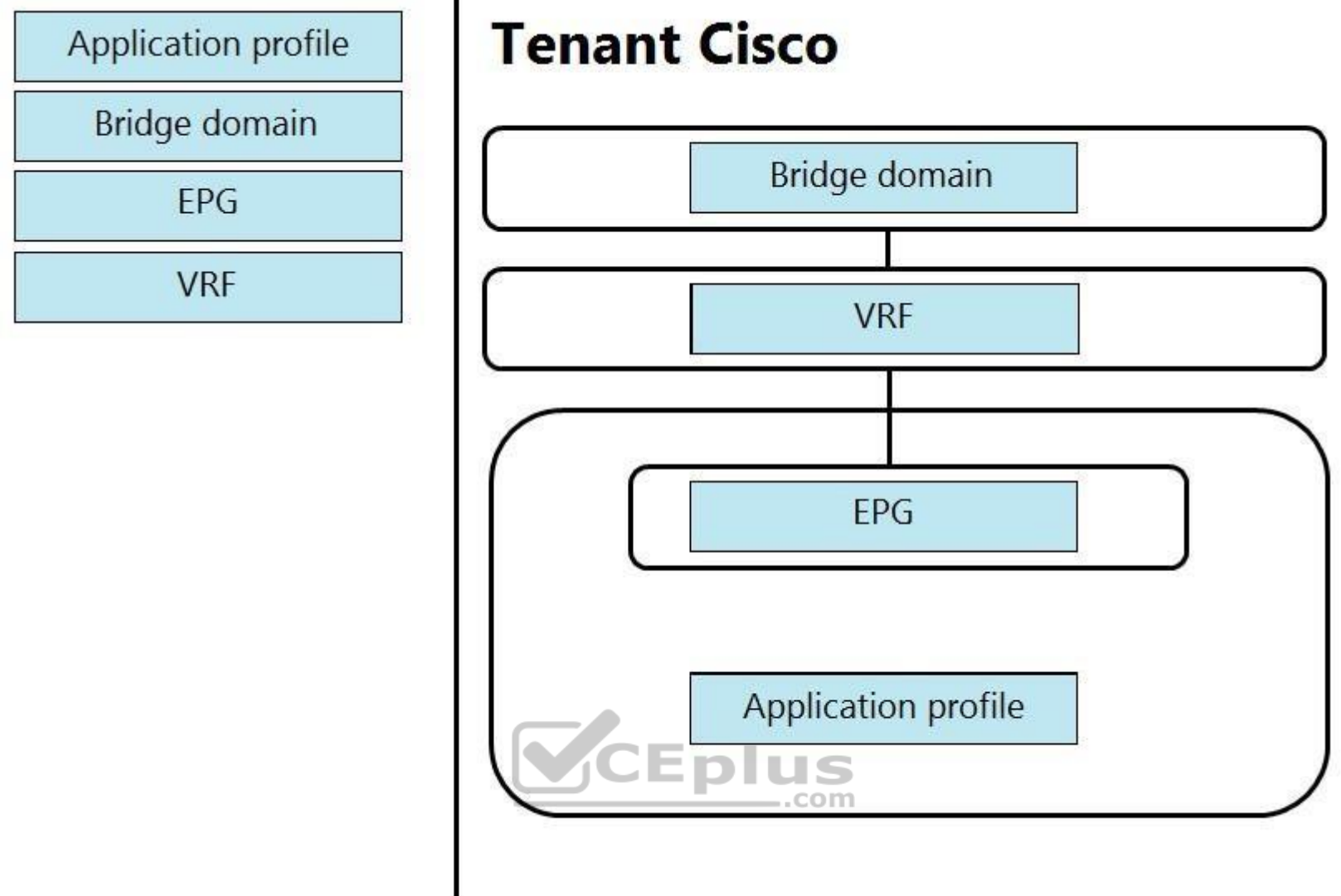
DRAG DROP

An engineer is configuring a VRF for a tenant named Cisco. Drag and drop the child objects on the left onto the correct containers on the right for this configuration.

**Select and Place:**



**Correct Answer:**



## Section: ACI Fabric Infrastructure

### Explanation

### Explanation/Reference:

**QUESTION 10** Which feature dynamically assigns or modifies the EPG association of virtual machines based on their attributes?

- A. vzAny contracts
- B. standard contracts
- C. application EPGs
- D. uSeg EPGs

**Correct Answer: D**

## Section: ACI Fabric Infrastructure

### Explanation

### Explanation/Reference:

## QUESTION 11

Which feature allows firewall ACLs to be configured automatically when new endpoints are attached to an EPG?

- A. ARP gleaning
- B. dynamic endpoint attach
- C. hardware proxy
- D. network-stitching

**Correct Answer:** B

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

An engineer is implementing Cisco ACI at a large platform-as-a-service provider using APIC controllers, 9396PX leaf switches, and 9336PQ spine switches. The leaf switch ports are configured as IEEE 802.1p ports. Where does the traffic exit from the EPG in IEEE 802.1p mode in this configuration?

- A. from leaf ports tagged as VLAN 0
- B. from leaf ports untagged
- C. from leaf ports tagged as VLAN 4094
- D. from leaf ports tagged as VLAN 1

**Correct Answer:** A

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

**QUESTION 13** How is an EPG extended outside of the ACI fabric?

- A. Create an external bridged network that is assigned to a leaf port.
- B. Create an external routed network that is assigned to an EPG.
- C. Enable unicast routing within an EPG.
- D. Statically assign a VLAN ID to a leaf port in an EPG.

**Correct Answer:** D

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

Reference: <https://www.dcclessons.com/l2-external-network-with-aci>

#### QUESTION 14

DRAG DROP

Drag and drop the Cisco ACI filter entry options from the left onto the correct categories on the right indicating what are required or optional parameters.

**Select and Place:**

**Correct Answer:**

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating\\_ACI/guide/b\\_Cisco\\_Operating\\_ACI/b\\_Cisco\\_Operating\\_ACI\\_chapter\\_01000.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating_ACI/guide/b_Cisco_Operating_ACI/b_Cisco_Operating_ACI_chapter_01000.html)

**QUESTION 15**

Where is the COOP database located?

- A. leaf
- B. spine
- C. APIC
- D. endpoint

**Correct Answer:** B

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

Reference: <https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c11-739989.html>

**QUESTION 16** Which description regarding the initial APIC cluster discovery process is true?

- A. The APIC uses an internal IP address from a pool to communicate with the nodes.
- B. Every switch is assigned a unique AV by the APIC.
- C. The APIC discovers the IP address of the other APIC controllers by using Cisco Discovery Protocol.
- D. The ACI fabric is discovered starting with the spine switches.

**Correct Answer:** C

**Section:** ACI Fabric Infrastructure

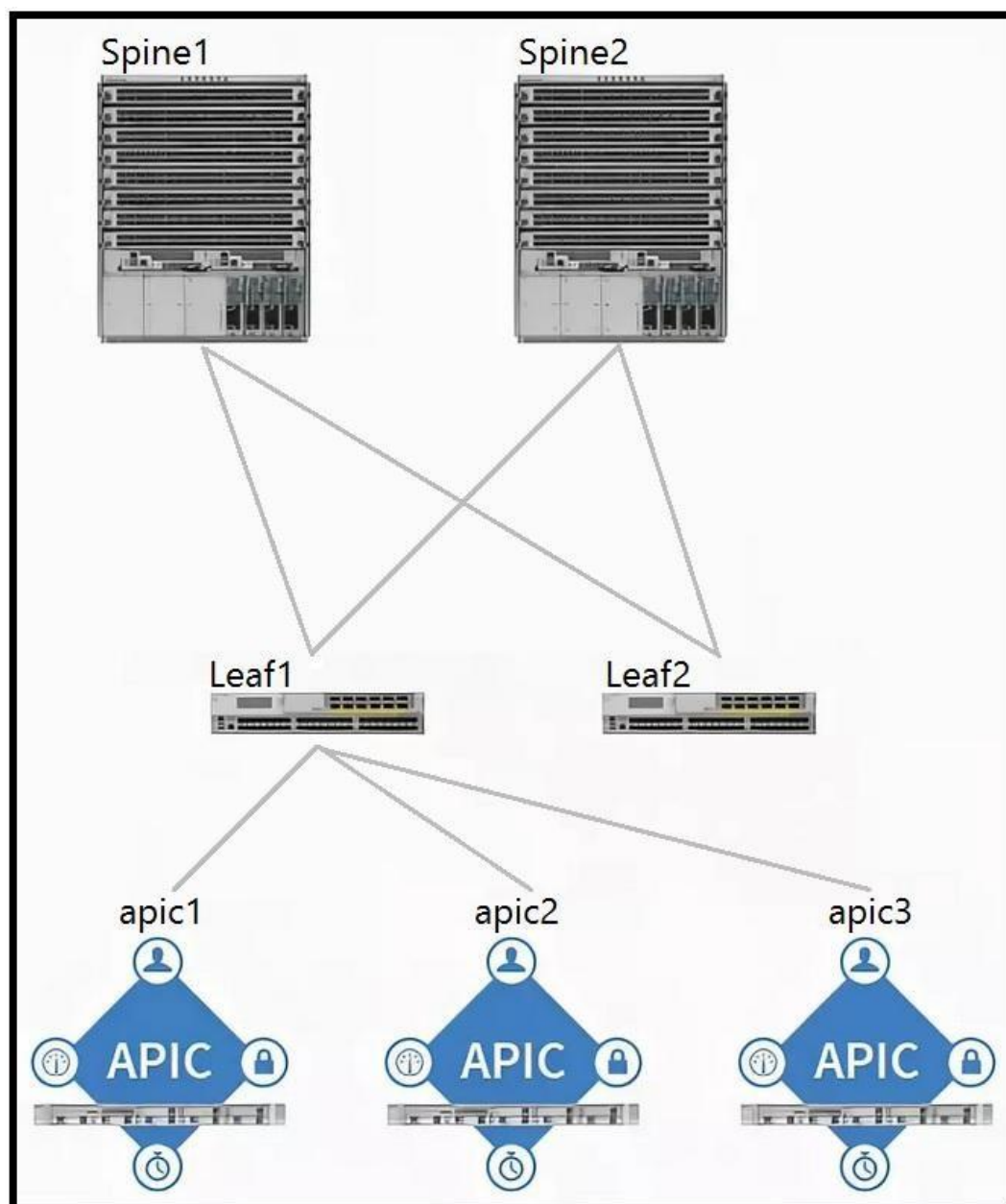
**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/aci-fundamentals/b\\_ACI-Fundamentals/b\\_ACI-Fundamentals\\_chapter\\_010011.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/aci-fundamentals/b_ACI-Fundamentals/b_ACI-Fundamentals_chapter_010011.html)

**QUESTION 17**





Refer to the exhibit. Which two components should be configured as route reflectors in the ACI fabric? (Choose two.)

- A. Spine1
- B. apic1
- C. Spine2
- D. Leaf1
- E. Leaf2
- F. apic2

**Correct Answer:** AC

**Section:** ACI Fabric Infrastructure

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

When creating a subnet within a bridge domain, which configuration option is used to specify the network visibility of the subnet?

- A. limit IP learning to subnet
- B. scope
- C. gateway IP
- D. subnet control

**Correct Answer: C**

**Section: ACI Fabric Infrastructure**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating\\_ACI/guide/b\\_Cisco\\_Operating\\_ACI/b\\_Cisco\\_Operating\\_ACI\\_chapter\\_0111.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating_ACI/guide/b_Cisco_Operating_ACI/b_Cisco_Operating_ACI_chapter_0111.html)

**QUESTION 19** What does a bridge domain represent?

- A. Layer 3 cloud
- B. Layer 2 forwarding construct
- C. tenant
- D. physical domain

**Correct Answer: B**

**Section: ACI Fabric Infrastructure**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/L2\\_config/b\\_Cisco\\_APIC\\_Layer\\_2\\_Configuration\\_Guide/b\\_Cisco\\_APIC\\_Layer\\_2\\_Configuration\\_Guide\\_chapter\\_010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/L2_config/b_Cisco_APIC_Layer_2_Configuration_Guide/b_Cisco_APIC_Layer_2_Configuration_Guide_chapter_010.html)

**QUESTION 20** Which table holds IP address, MAC address and VXLAN/VLAN information on a Cisco ACI leaf?

- A. endpoint
- B. adjacency
- C. RIB
- D. ARP



**Correct Answer: A**

**Section: ACI Fabric Infrastructure**

**Explanation**

**Explanation/Reference:**

Reference: <https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c11-739989.html>

**QUESTION 21**

Which two types of interfaces are supported on border leaf switches to connect to an external router? (Choose two.)

- A. subinterface with VXLAN tagging
- B. subinterface with 802.1Q tagging
- C. FEX host interface
- D. out of band interface
- E. Switch Virtual Interface

**Correct Answer: BE**

**Section: ACI Fabric Infrastructure**

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

An engineer is extending an EPG out of the ACI fabric using static path binding. Which statement about the endpoints is true?

- A. Endpoints must connect directly to the ACI leaf port.
- B. External endpoints are in a different bridge domain than the endpoints in the fabric.
- C. Endpoint learning encompasses the MAC address only.
- D. External endpoints are in the same EPG as the directly attached endpoints.

**Correct Answer: C**

**Section: ACI Packet Forwarding**

**Explanation**

**Explanation/Reference:**

### QUESTION 23

Which setting prevents the learning of Endpoint IP addresses whose subnet does not match the bridge domain subnet?

- A. "Limit IP learning to network" setting within the bridge domain.
- B. "Limit IP learning to subnet" setting within the EPG.
- C. "Limit IP learning to network" setting within the EPG.
- D. "Limit IP learning to subnet" setting within the bridge domain.

**Correct Answer: D**

**Section: ACI Packet Forwarding**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/L2\\_config/b\\_Cisco\\_APIC\\_Layer\\_2\\_Configuration\\_Guide/b\\_Cisco\\_APIC\\_Layer\\_2\\_Configuration\\_Guide\\_chapter\\_010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/L2_config/b_Cisco_APIC_Layer_2_Configuration_Guide/b_Cisco_APIC_Layer_2_Configuration_Guide_chapter_010.html)

### QUESTION 24

Which endpoint learning operation is completed on the egress leaf switch when traffic is received from an L3Out?

- A. The source MAC and IP address of the traffic is learned as a local endpoint.
- B. The source MAC address of the traffic is learned as a remote endpoint.
- C. No source MAC or IP address of the traffic is learned as a remote endpoint.
- D. The source IP address of the traffic is learned as a remote endpoint.

**Correct Answer: B**

**Section: ACI Packet Forwarding**

**Explanation**

**Explanation/Reference:**

Reference: <https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c11-739989.html>

### QUESTION 25

```
<fvTenant name="ACILab">
  <fvCtx name="pvn1"/>
  <fvBD name="bd1">
    <fvRsCtx tnFvCtxName="pvn1"/>
    <fvSubnet ip="10.1.100.1/24"/>
  </fvBD>
</fvTenant>
```

Refer to the exhibit. Which two objects are created as a result of the configuration? (Choose two.)

- A. application profile

- B. attachable AEP
- C. bridge domain
- D. endpoint group
- E. VRF

**Correct Answer:** CE

**Section:** ACI Packet Forwarding

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/rest\\_cfg/2\\_1\\_x/b\\_Cisco\\_APIC\\_REST\\_API\\_Configuration\\_Guide/b\\_Cisco\\_APIC\\_REST\\_API\\_Configuration\\_Guide\\_chapter\\_01110.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/rest_cfg/2_1_x/b_Cisco_APIC_REST_API_Configuration_Guide/b_Cisco_APIC_REST_API_Configuration_Guide_chapter_01110.html)

#### QUESTION 26

What must be enabled in the bridge domain to have the endpoint table learn the IP addresses of endpoints?

- A. L2 unknown unicast: flood
- B. GARP based detection
- C. unicast routing
- D. subnet scope

**Correct Answer:** C

**Section:** ACI Packet Forwarding

**Explanation**

**Explanation/Reference:**

Reference: <https://hsvglobalschool.in/dhkycw/cisco-aci-bridge-domain.html>

**QUESTION 27** An engineer is extending EPG connectivity to an external network. The external network houses the Layer 3 gateway and other end hosts. Which ACI bridge domain configuration should be used?

- A. Forwarding: **Custom**  
L2 Unknown Unicast: **Hardware Proxy**  
L3 Unknown Multicast Flooding: **Flood**  
Multi Destination Flooding: **Flood in BD**  
ARP Flooding: **Enabled**
- B. Forwarding: **Custom** L2 Unknown Unicast: **Flood**  
L3 Unknown Multicast Flooding: **Flood**  
Multi Destination Flooding: **Flood in BD**  
ARP Flooding: **Enabled**
- C. Forwarding: **Custom**  
L2 Unknown Unicast: **Hardware Proxy**  
L3 Unknown Multicast Flooding: **Flood**  
Multi Destination Flooding: **Flood in BD**  
ARP Flooding: **Disabled**
- D. Forwarding: **Custom** L2 Unknown Unicast: **Flood**  
L3 Unknown Multicast Flooding: **Flood**  
Multi Destination Flooding: **Flood in BD**  
ARP Flooding: **Disabled**

**Correct Answer:** D

**Section:** ACI Packet Forwarding

**Explanation**

**Explanation/Reference:**

#### QUESTION 28

An engineer configured a bridge domain with the hardware-proxy option for Layer 2 unknown unicast traffic. Which statement is true about this configuration?

- A. The leaf switch drops the Layer 2 unknown unicast packet if it is unable to find the MAC address in the local forwarding tables.
- B. The Layer 2 unknown hardware proxy lacks support of the topology change notification.
- C. The leaf switch forwards the Layers 2 unknown unicast packets to all other leaf switches if it is unable to find the MAC address in its local forwarding tables.
- D. The spine switch drops the Layer 2 unknown unicast packet if it is unable to find the MAC address in the proxy database.

**Correct Answer:** A

**Section:** ACI Packet Forwarding

**Explanation**

**Explanation/Reference:**

#### QUESTION 29

An engineer configured Layer 2 extension from the ACI fabric and changed the Layer 2 unknown unicast policy from Flood to Hardware Proxy. How does this change affect the flooding of the L2 unknown unicast traffic?

- A. It is forwarded to one of the spines to perform as a spine proxy.
- B. It is flooded within the whole fabric.
- C. It is dropped by the leaf when the destination endpoint is not present in the endpoint table.
- D. It is forwarded to one of the APICs to perform as a proxy.

**Correct Answer:** A

**Section:** ACI Packet Forwarding

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/L2\\_config/b\\_Cisco\\_APIC\\_Layer\\_2\\_Configuration\\_Guide/b\\_Cisco\\_APIC\\_Layer\\_2\\_Configuration\\_Guide\\_chapter\\_010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/L2_config/b_Cisco_APIC_Layer_2_Configuration_Guide/b_Cisco_APIC_Layer_2_Configuration_Guide_chapter_010.html)

**QUESTION 30** Which action sets Layer 2 loop migration in an ACI Fabric with a Layer 2 Out configured?

- A. Enable MCP on the ACI fabric.
- B. Disable STP in the external network.
- C. Disable STP on the ACI fabric.
- D. Enable STP on the ACI fabric.



**Correct Answer:** A

**Section:** External Network Connectivity

**Explanation**

**Explanation/Reference:**

#### QUESTION 31

An engineer is implementing a connection that represents an external bridged network. Which two configurations are used? (Choose two.)

- A. Layer 2 remote fabric
- B. Layer 2 outside
- C. Layers 2 internal
- D. Static path binding
- E. VXLAN outside

**Correct Answer:** AB

**Section:** External Network Connectivity

**Explanation**

**Explanation/Reference:**

**QUESTION 32** Which two actions extend a Layer 2 domain beyond the ACI fabric?  
(Choose two.)

- A. extending the routed domain out of the ACI fabric
- B. creating a single homed Layer 3 Out
- C. creating an external physical network
- D. extending the bridge domain out of the ACI fabric
- E. extending the EPG out of the ACI fabric

**Correct Answer:** AE

**Section:** External Network Connectivity

**Explanation**

**Explanation/Reference:**

**QUESTION 33** When Cisco ACI connects to an outside Layers 2 network, where does the ACI fabric flood the STP BPDU frame?

- A. within the bridge domain
- B. within the APIC
- C. within the access encap VLAN
- D. between all the spine and leaf switches

**Correct Answer:** A

**Section:** External Network Connectivity

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c07-732033.html#\\_Toc395143571](https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c07-732033.html#_Toc395143571)

**QUESTION 34**

On which two interface types should a user configure storm control to protect against broadcast traffic? (Choose two.)

- A. APIC facing interfaces
- B. port channel on a single leaf switch
- C. all interfaces on the leaf switches in the fabric
- D. endpoint-facing trunk interface
- E. fabric uplink interfaces on the leaf switches

**Correct Answer:** BD

**Section:** External Network Connectivity

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/L2\\_config/b\\_Cisco\\_APIC\\_Layer\\_2\\_Configuration\\_Guide/b\\_Cisco\\_APIC\\_Layer\\_2\\_Configuration\\_Guide\\_chapter\\_01010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/L2_config/b_Cisco_APIC_Layer_2_Configuration_Guide/b_Cisco_APIC_Layer_2_Configuration_Guide_chapter_01010.html)

**QUESTION 35**

Which two dynamic routing protocols are supported when using Cisco ACI to connect to an external Layer 3 network? (Choose two.)

- A. iBGP
- B. VXLAN
- C. IS-IS
- D. RIPv2
- E. eBGP

**Correct Answer:** AE

## Section: External Network Connectivity

### Explanation

#### Explanation/Reference:

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices\\_chapter\\_010010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI_Best_Practices/b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_010010.html)

**QUESTION 36** What must be configured to redistribute externally learned OSPF routes within the ACI fabric?

- A. Route Control Profile
- B. BGP Route Reflector
- C. BGP Inter-leak Route Map
- D. PIM Sparse Mode

**Correct Answer: B**

## Section: External Network Connectivity

### Explanation

#### Explanation/Reference:

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices\\_chapter\\_010010.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI_Best_Practices/b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_010010.html)

#### QUESTION 37

Regarding the MTU value of MP-BGP EVPN control plane packets in Cisco ACI, which statement about communication between spine nodes in different sites is true?

- A. By default, spine nodes generate 9000-bytes packets to exchange endpoints routing information. As a result, the Inter-Site network should be able to carry 9000-bytes packets.
- B. By default, spine nodes generate 1500-bytes packets to exchange endpoints routing information. As a result, the Inter-Site network should be able to carry 1800-bytes packets.
- C. By default, spine nodes generate 1500-bytes packets to exchange endpoints routing information. As a result, the Inter-Site network should be able to carry 1500-bytes packets.
- D. By default, spine nodes generate 9000-bytes packets to exchange endpoints routing information. As a result, the Inter-Site network should be able to carry 9100-bytes packets.

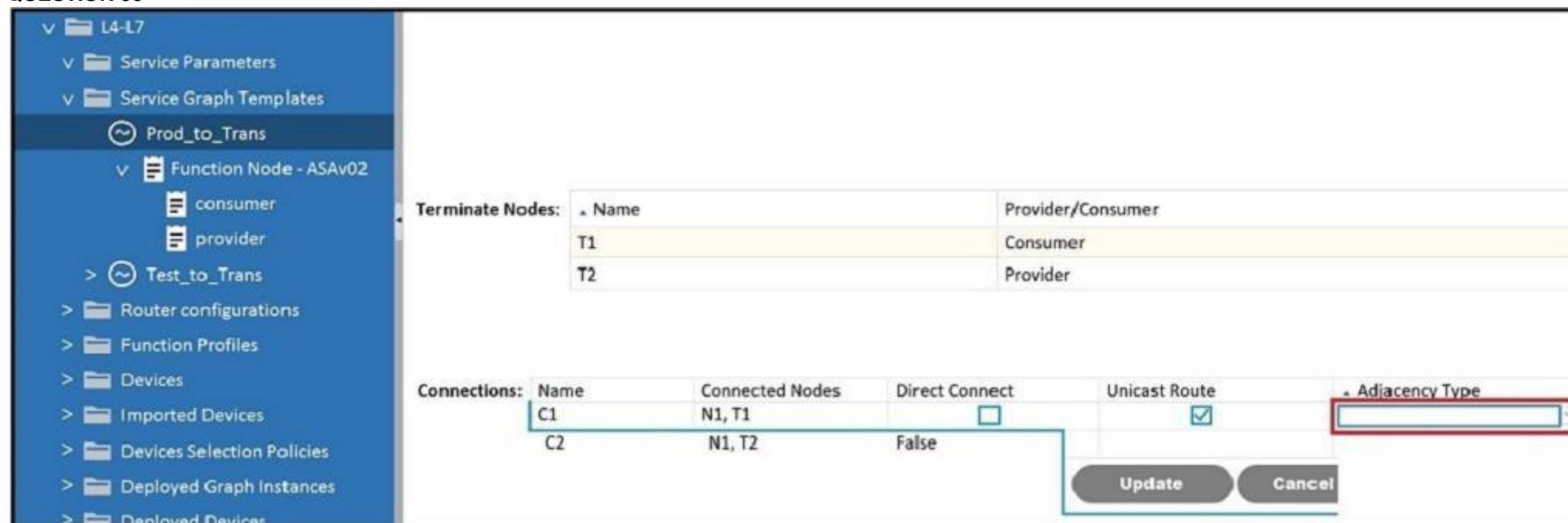
**Correct Answer: D**

## Section: External Network Connectivity

### Explanation

#### Explanation/Reference:

#### QUESTION 38



Terminate Nodes:	
Name	Provider/Consumer
T1	Consumer
T2	Provider

Connections:				
Name	Connected Nodes	Direct Connect	Unicast Route	Adjacency Type
C1	N1, T1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C2	N1, T2	False		

Update Cancel



Refer to the exhibit. Which Adjacency Type value should be set when the client endpoint and the service node interface are in a different subnet?

- A. Routed
- B. Unicast
- C. L3Out
- D. L3

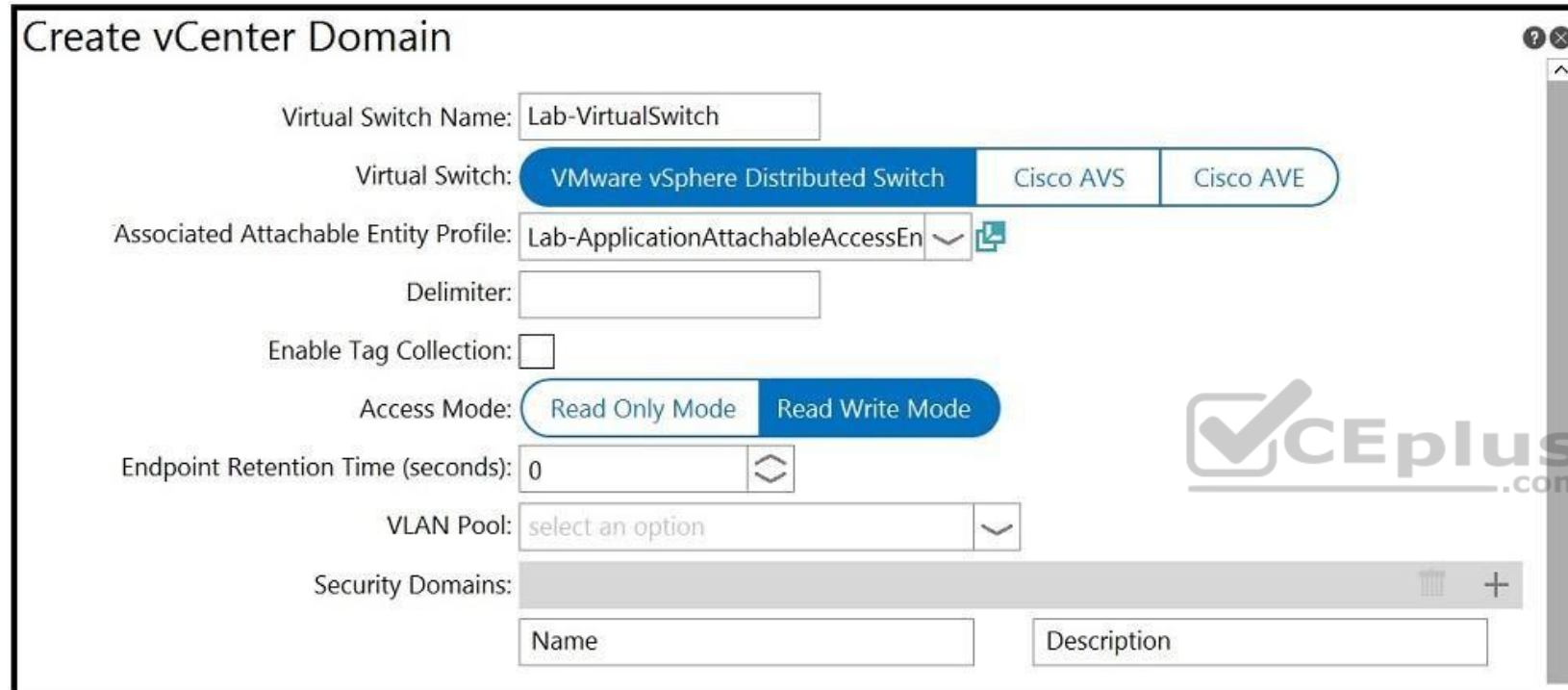
**Correct Answer: D**

**Section: External Network Connectivity**

**Explanation**

**Explanation/Reference:**

#### QUESTION 39



**Create vCenter Domain**

Virtual Switch Name: Lab-VirtualSwitch

Virtual Switch: VMware vSphere Distributed Switch | Cisco AVS | Cisco AVE

Associated Attachable Entity Profile: Lab-ApplicationAttachableAccessEn

Delimiter:

Enable Tag Collection: ☐

Access Mode: Read Only Mode | Read Write Mode

Endpoint Retention Time (seconds): 0

VLAN Pool: select an option

Security Domains:

Name	Description
------	-------------

Refer to the exhibit. An engineer is integrating a VMware vCenter with Cisco ACI VMM domain configuration. ACI creates port-group names with the format of "Tenant | Application | EPG". Which configuration option is used to generate port groups with names formatted as "Tenant=Application=EPG"?

- A. enable tag collection
- B. security domains
- C. delimiter
- D. virtual switch name

**Correct Answer: D**

**Section: Integrations Explanation**

**Explanation/Reference:**

#### QUESTION 40



Create vCenter Domain

vCenter Credentials:

Profile name	Username	Description
Lab-VCenter	admin	

vCenter:

Name	IP	Type	Stats Collection
Lab-VCenter	vcenter.aci.lab	vCenter	Disabled

Port Channel Mode:

select a value

Static Channel – Mode On

LACP Active

LACP Passive

MAC Pinning+

MAC Pinning-Physical-NIC-load

Cancel

Submit

Refer to the exhibit. An engineer is implementing Cisco ACI – VMware vCenter integration for a blade server that lacks support of bonding. Which port channel mode results in “route based on originating virtual port” on the VMware VDS?

- A. Static Channel – Mode On
- B. MAC Pinning-Physical-NIC-load
- C. LACP Passive
- D. MAC Pinning+
- E. LACP Active

**Correct Answer:** D

**Section:** Integrations Explanation

**Explanation/Reference:**

#### QUESTION 41

When configuring Cisco ACI VMM domain integration with VMware vCenter, which object is created in vCenter?

- A. datacenter
- B. VMware vSphere Standard vSwitch
- C. VMware vSphere Distributed Switch
- D. cluster

**Correct Answer:** C

**Section:** Integrations Explanation

**Explanation/Reference:**

#### QUESTION 42

DRAG DROP

Drag and drop the Cisco ACI Layer 4 to Layer 7 service insertion terms on the left to the correct descriptions on the right.

Select and Place:

concrete interfaces	ensures reachability between L3 domains
service graph	rendered with local resources that are available in the fabric
device cluster	contains an active-standby pair of firewalls or load balancers
VRF stitching	encapsulations programmed based on their association with logical interfaces

Correct Answer:

concrete interfaces	VRF stitching
service graph	service graph
device cluster	device cluster
VRF stitching	concrete interfaces

#### Section: Integrations Explanation

Explanation/Reference:

#### QUESTION 43

An engineer has set the VMM resolution immediacy to pre-provision in a Cisco ACI environment. No Cisco Discovery Protocol neighborship has been formed between the hypervisors and the ACI fabric leaf nodes. How does this affect the download policies to the leaf switches?

- A. No policies are downloaded because LLDP is the only supported discovery protocol.
- B. Policies are downloaded when the hypervisor host is connected to the VMM VDS.
- C. Policies are downloaded to the ACI leaf switch regardless of Cisco Discovery Protocol neighborship.
- D. No policies are downloaded because there is no discovery protocol neighborship.

Correct Answer: C

Section: Integrations

Explanation

Explanation/Reference:

#### QUESTION 44

In the context of VMM, which protocol between ACI leaf and compute hosts ensures that the policies are pushed to the leaf switches for immediate and on demand resolution immediacy?

- A. VXLAN
- B. LLDP
- C. ISIS
- D. STP

**Correct Answer:** A

**Section:** Integrations **Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices/b\\_ACI\\_Best\\_Practices\\_chapter\\_0101.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI_Best_Practices/b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_0101.html)

**QUESTION 45** Which tenant is used when configuring in-band management IP addresses for Cisco APICs, leaf nodes, and spine nodes?

- A. default
- B. infra
- C. common
- D. mgmt

**Correct Answer:** D

**Section:** ACI Management

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/kb/b\\_KB\\_Configuring\\_Static\\_Management\\_Access.html#concept\\_CFF63FEBE947424291B0F10E6F23DA7D](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/kb/b_KB_Configuring_Static_Management_Access.html#concept_CFF63FEBE947424291B0F10E6F23DA7D)

**QUESTION 46** What represents the unique identifier of an ACI object?

- A. universal resource identifier (URI)
- B. application programming interface
- C. management information tree
- D. distinguished name



**Correct Answer:** D

**Section:** ACI Management

**Explanation**

**Explanation/Reference:**

Reference: <https://www.slideshare.net/CiscoDevNet/introduction-to-aci-apis>

**QUESTION 47** Which new construct must a user create when configuring in-band management?

- A. VLAN pool
- B. management contract
- C. management tenant
- D. bridge domain

**Correct Answer:** D

**Section:** ACI Management

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/kb/b\\_KB\\_Configuring\\_Static\\_Management\\_Access.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/kb/b_KB_Configuring_Static_Management_Access.html)

**QUESTION 48** What must be configured to allow SNMP traffic on the APIC controller?

- A. out-of-band management interface
- B. contract under tenant mgmt
- C. SNMP relay policy
- D. out-of-band bridge domain

**Correct Answer: B**

**Section: ACI Management**

**Explanation**

**Explanation/Reference:**

**QUESTION 49** Which type of port is used for in-band management within ACI fabric?

- A. spine switch port
- B. APIC console port
- C. leaf access port
- D. management port

**Correct Answer: C**

**Section: ACI Management**

**Explanation**

**Explanation/Reference:**



**QUESTION 50**

## Edit Stats Threshold

**transmit B2B credit cumulative**

Normal Value:

Threshold Direction: Both Rising Falling

Rising Thresholds to Config: ☒ ☐

☒ Critical  
☐ Major  
☐ Minor  
☒ Warning

Rising

	Set	Reset
Critical	<input type="text" value="500"/>	<input type="text"/>
Major		
Minor		
Warning	<input type="text" value="400"/>	<input type="text" value="300"/>



Refer to the exhibit. A client reports that the ACI domain connectivity to the fiber channel storage is experiencing a B2B credit oversubscription. The environment has a SYSLOG server for state collection messages. Which value should be chosen to clear the critical fault?

- A. 300
- B. 410
- C. 350
- D. 510

**Correct Answer:** B

**Section:** ACI Management

**Explanation**

**Explanation/Reference:**

**QUESTION 51** Which statement about ACI syslog is true?

- A. Notifications for different scopes of syslog objects can be sent only to one destination.
- B. Syslog messages are sent to the destination through the spine.
- C. All syslog messages are sent to the destination through APIC.
- D. Switches send syslog messages directly to the destinations.

**Correct Answer:** A

**Section:** ACI Management

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ciscoplive.com/c/dam/r/ciscoplive/us/docs/2016/pdf/BRKACI-2303.pdf>

**QUESTION 52**

A data center administrator is upgrading an ACI fabric. There are 3 APIC controllers in the fabric and all the servers are dual-homed to pairs of leaf switches configured in VPC mode. How should the fabric be upgraded to minimize possible traffic impact during the upgrade?

- A. 1. Create two maintenance groups for the APIC controllers: VPC left and VPC right.  
2. Upgrade the first group of controllers.  
3. Upgrade the second group of controllers.  
4. Upgrade the leaf switches.
- B. 1. Create two maintenance groups for APIC controllers: VPC left and VPC right.  
2. Upgrade the leaf switches.  
3. Upgrade the first group of controllers.  
4. Upgrade the second group of controllers.
- C. 1. Create two maintenance groups for the leaf switches: VPC left and VPC right.  
2. Upgrade the APIC controllers.  
3. Upgrade the first group of leaf switches.  
4. Upgrade the second group of leaf switches.
- D. 1. Create two maintenance groups for the leaf switches: VPC left and VPC right.  
2. Upgrade the first group of switches.  
3. Upgrade the second group of switches.  
4. Upgrade the APIC controllers.

**Correct Answer: D**

**Section: ACI Management**

**Explanation**

**Explanation/Reference:**

**QUESTION 53** Which protocol does ACI use to securely save the configuration in a remote location?

- A. SCP
- B. HTTPS
- C. TFTP
- D. FTP

**Correct Answer: A**

**Section: ACI Management**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/kb/b\\_KB\\_Using\\_Import\\_Export\\_to\\_Recover\\_Config\\_States.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/kb/b_KB_Using_Import_Export_to_Recover_Config_States.html)

**QUESTION 54**

Which two protocols support accessing backup files on a remote location from the APIC? (Choose two.)

- A. TFTP
- B. FTP
- C. SFTP
- D. SMB
- E. HTTPS

**Correct Answer: BC**

**Section: ACI Management**

**Explanation****Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/troubleshooting/b\\_APIC\\_Troubleshooting/b\\_APIC\\_Troubleshooting\\_appendix\\_010011.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/troubleshooting/b_APIC_Troubleshooting/b_APIC_Troubleshooting_appendix_010011.html)

**QUESTION 55** Which attribute should be configured for each user to enable RADIUS for external authentication in Cisco ACI?

- A. cisco-security domain
- B. cisco-auth-features
- C. cisco-aci-role
- D. cisco-av-pair

**Correct Answer: D**

**Section: ACI Management**

**Explanation****Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/Security\\_config/b\\_Cisco\\_APIC\\_Security\\_Configuration\\_Guide/b\\_Cisco\\_APIC\\_Security\\_Guide\\_chapter\\_01011.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/Security_config/b_Cisco_APIC_Security_Configuration_Guide/b_Cisco_APIC_Security_Guide_chapter_01011.html)

**QUESTION 56**

In the context of ACI Multi-Site, when is the information of an endpoint (MAC/IP) that belongs to site 1 advertised to site 2 using the EVPN control plane?

- A. Endpoint information is not exchanged across sites unless COOP protocol is used.
- B. Endpoint information is not exchanged across sites unless a policy is configured to allow communication across sites.
- C. Endpoint information is exchanged across sites as soon as the endpoint is discovered in one site.
- D. Endpoint information is exchanged across sites when the endpoints are discovered in both sites.

**Correct Answer: A**

**Section: ACI Anywhere**

**Explanation****Explanation/Reference:**

Reference: <https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c11-739609.html#CiscoACIMultiSiteoverlaydataplane>

**QUESTION 57** Which statement regarding ACI Multi-Pod and TEP pool is true?

- A. The IP addresses used in the IPN network can overlap TEP pool of the APIC.
- B. A different TEP pool must be assigned to each Pod.
- C. The Pod1 TEP pool must be split and a portion of the TEP pool allocated to each Pod.
- D. The same TEP pool is used in all Pods.

**Correct Answer: B**

**Section: ACI Anywhere**

**Explanation****Explanation/Reference:**

Reference: <https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c11-739714.html>

**QUESTION 58** Which two statements regarding ACI Multi-Site are true?  
(Choose two.)

- A. The Multi-Site orchestrator must be directly attached to one ACI leaf.
- B. Routers in the Inter-Site network must run OSPF, DHCP relay, and MP-BGP.
- C. ACI Multi-Site is a solution that supports a dedicated APIC cluster per site.
- D. ACI Multi-Site is a solution that allows one APIC cluster to manage multiple ACI sites.
- E. The Inter-Site network routers should run OSPF to establish peering with the spines.

**Correct Answer:** AE  
**Section:** ACI Anywhere  
**Explanation**

**Explanation/Reference:**

**QUESTION 59**

What are two requirements for the IPN network when implementing a Multi-Pod ACI fabric? (Choose two.)

- A. EIGRP routing
- B. PIM ASM multicast routing
- C. BGP routing
- D. VLAN ID 4
- E. OSPF routing

**Correct Answer:** AE  
**Section:** ACI Anywhere  
**Explanation**

**Explanation/Reference:**

**QUESTION 60**

A Solutions Architect is asked to design two data centers based on Cisco ACI technology that can extend L2/L3, VXLAN, and network policy across locations. ACI Multi-Pod has been selected. Which two requirements must be considered in this design? (Choose two.)

- A. ACI underlay protocols, i.e. COOP, IS-IS and MP-BGP, spans across pods. Create QoS policies to make sure those protocols have higher priority.
- B. A single APIC Cluster is required in a Multi-Pod design. It is important to place the APIC Controllers in different locations in order to maximize redundancy and reliability.
- C. ACI Multi-Pod requires an IP Network supporting PIM-Bidir.
- D. ACI Multi-Pod does not support Firewall Clusters across Pods. Firewall Clusters should always be local.
- E. Multi-Pod requires multiple APIC Controller Clusters, one per pod. Make sure those clusters can communicate to each other through a highly available connection.

**Correct Answer:** AE  
**Section:** ACI Anywhere  
**Explanation**

**Explanation/Reference:**