

300-620^{Q&As}

Implementing Cisco Application Centric Infrastructure (DCACI)

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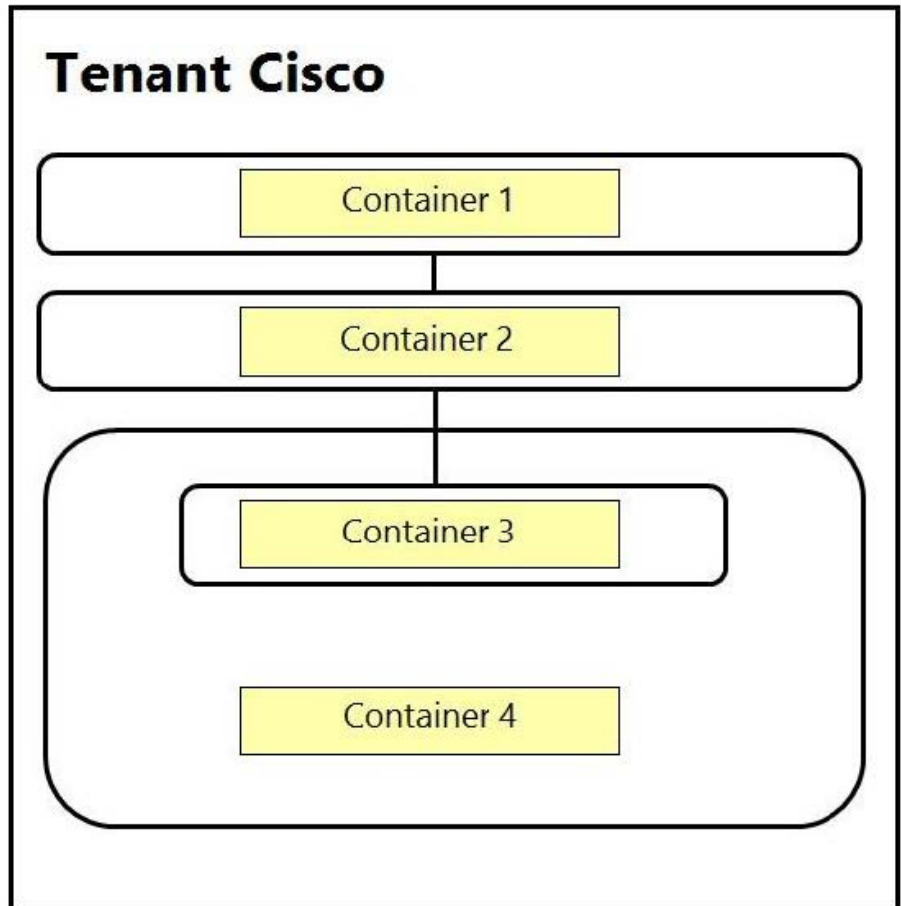
QUESTION 1

DRAG DROP

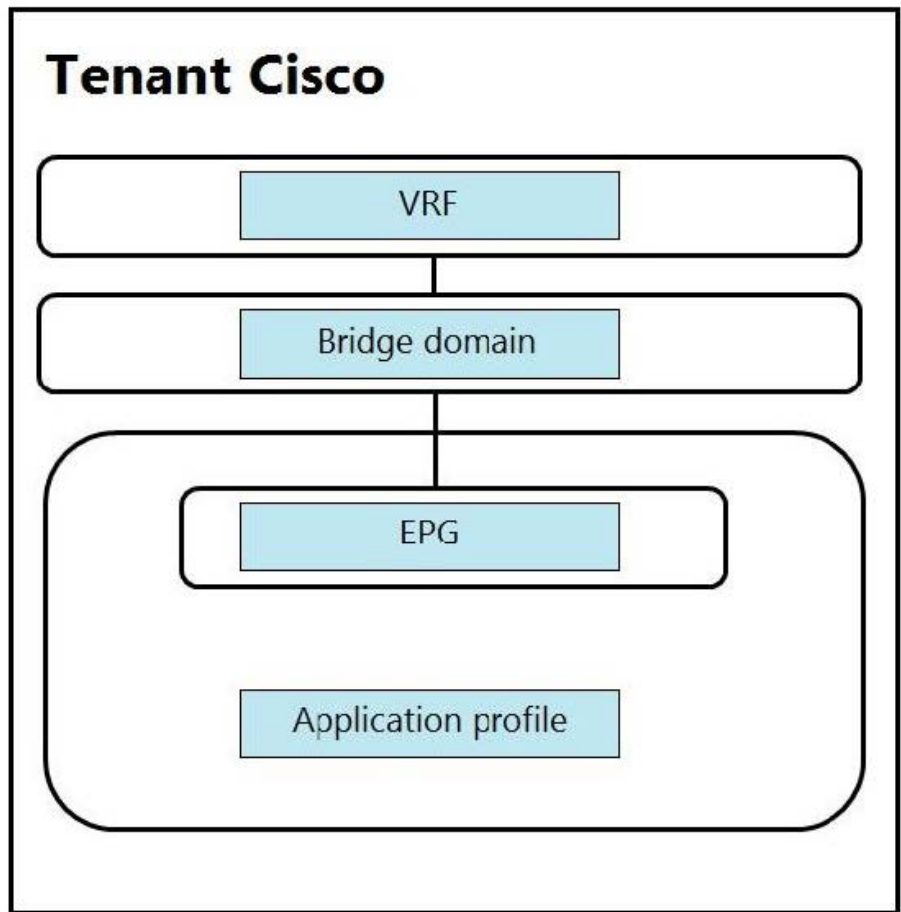
An engineer is configuring a VRF for a tenant named Cisco. Drag and drop the child objects on the left onto the correct containers on the right for this configuration.

Select and Place:

- Application profile
- Bridge domain
- EPG
- VRF

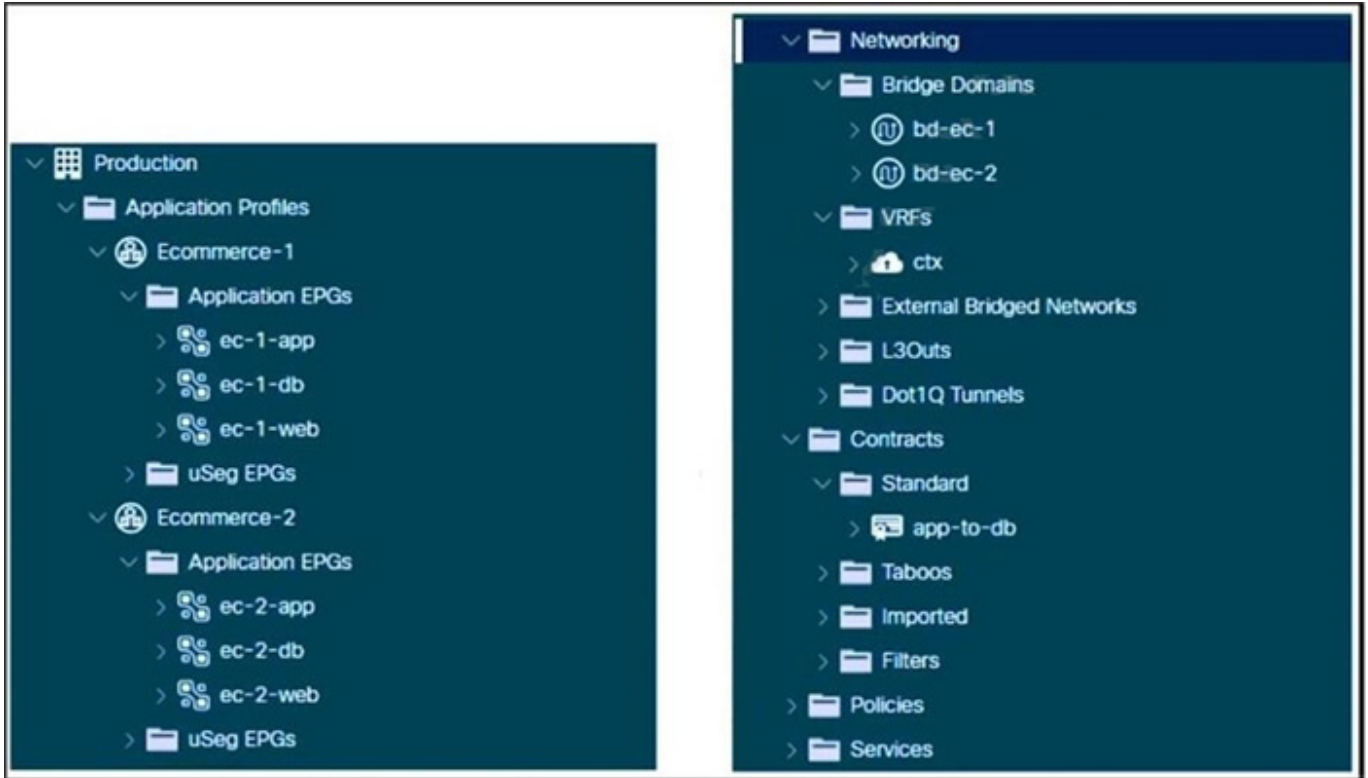


Correct Answer:



QUESTION 2

Refer to the exhibit.



A Cisco ACI environment hosts two e-commerce applications. The default contract from a common tenant between different application tiers is used, and the applications work as expected. The customer wants to move to more specific contracts to prevent unwanted traffic between EPGs. A network administrator creates the app-to-db contract to meet this objective for the application and database tiers. The application EPGs must communicate only with their respective database EPGs. How should this contract be configured to meet this requirement?

- A. Set the app-to-db scope to Global.
- B. Set the app-to-db scope to Application Profile.
- C. Implement the app-to-db scope as VRF.
- D. Implement the app-to-db as a Taboo contract.

Correct Answer: B

A contract will only program rules between EPGs that are defined within the same application profile. Use of the same contract across other application profile EPGs will not allow for crosstalk between them.

QUESTION 3

An engineer must configure a group of servers with a contract that uses TCP port 80. The EPG that contains the web servers requires an external Layer 3 cloud to initiate communication. Which action must be taken to meet these requirements?

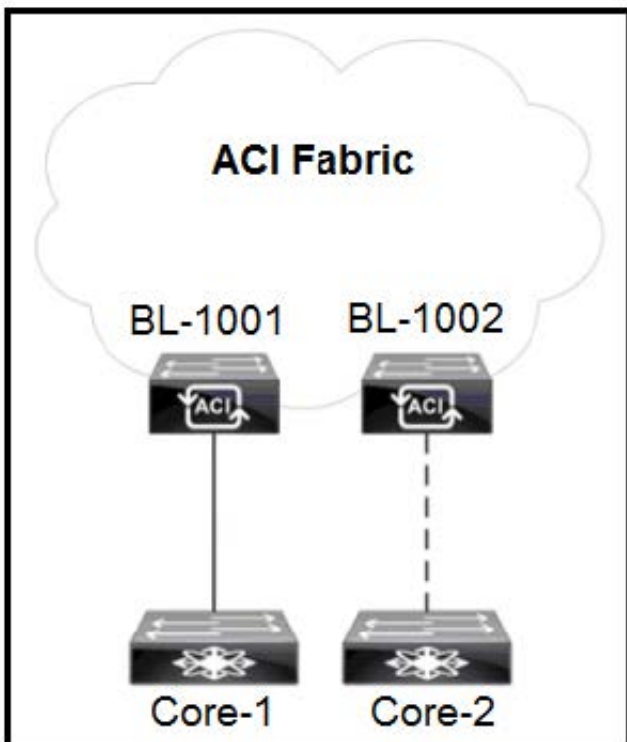
- A. Configure the EPG as a provider and L3 out as consumer of the contract.
- B. Configure OSPF to exchange routes between the L3 out and EPG.

- C. Configure a taboo contract and apply it to the EPG.
- D. Configure the EPG as a consumer and L3 out as a provider of the contract.

Correct Answer: A

QUESTION 4

Refer to the exhibit.



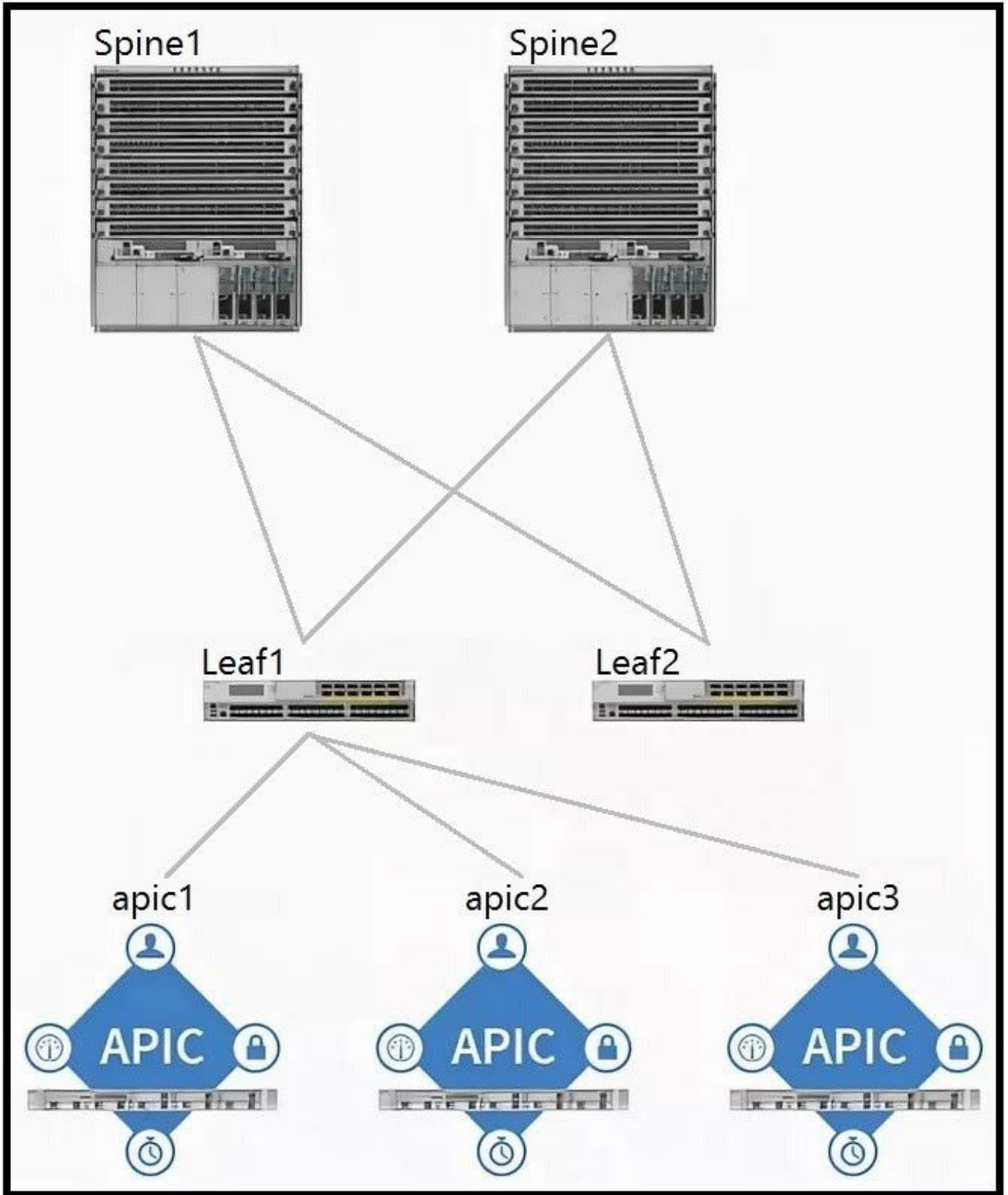
A tenant is configured with a single L3Out and a single-homed link to the core router called Core-1. An engineer must add a second link to the L3Out that connects to the Core-2 router. Which action allows traffic from Core-2 to BL-1002 to have the same connectivity as the traffic from Core-1 to BL-1001?

- A. Add a second OSPF interface profile to the logical interface profile.
- B. Add a second interface to the external domain to the existing L3Out.
- C. Add a second path to the logical interface profile of the existing L3Out.
- D. Add a second subnet to the external EPG to the existing L3Out.

Correct Answer: C

QUESTION 5

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

QUESTION 6

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: DE

QUESTION 7

A network engineer must allow secure access to the Cisco ACI out-of-band (OOB) management only from external subnets 10.0.0.0/24 and 192.168.20.0/25. Which configuration set accomplishes this goal?

- A. Create a L3Out in the MGMT tenant in OOB VRF. Set External Management Network Instance Profile as a consumer of the OOB contract. Create an External EPG with two subnet entries with the external subnets.
- B. Create a PBR service graph in the MGMT tenant. Create a management Profile with the required OOB EPG. Redirect all traffic going into ACI management to the external firewall. Create two subnet entries under the OOB Bridge domain with the required subnets.
- C. Create an EPG and BD in the MGMT tenant in OOB VRF. Set OOB VRF to provide the contract. Set a new EPG to consume the OOB contract.
- D. Create an OOB contract that allows the required ports. Provide the contract from the OOB EPG. Consume the contract by the OOB External Management Network Instance Profile. Create two subnet entries in the External Management Network Profile with the required subnets.

Correct Answer: D

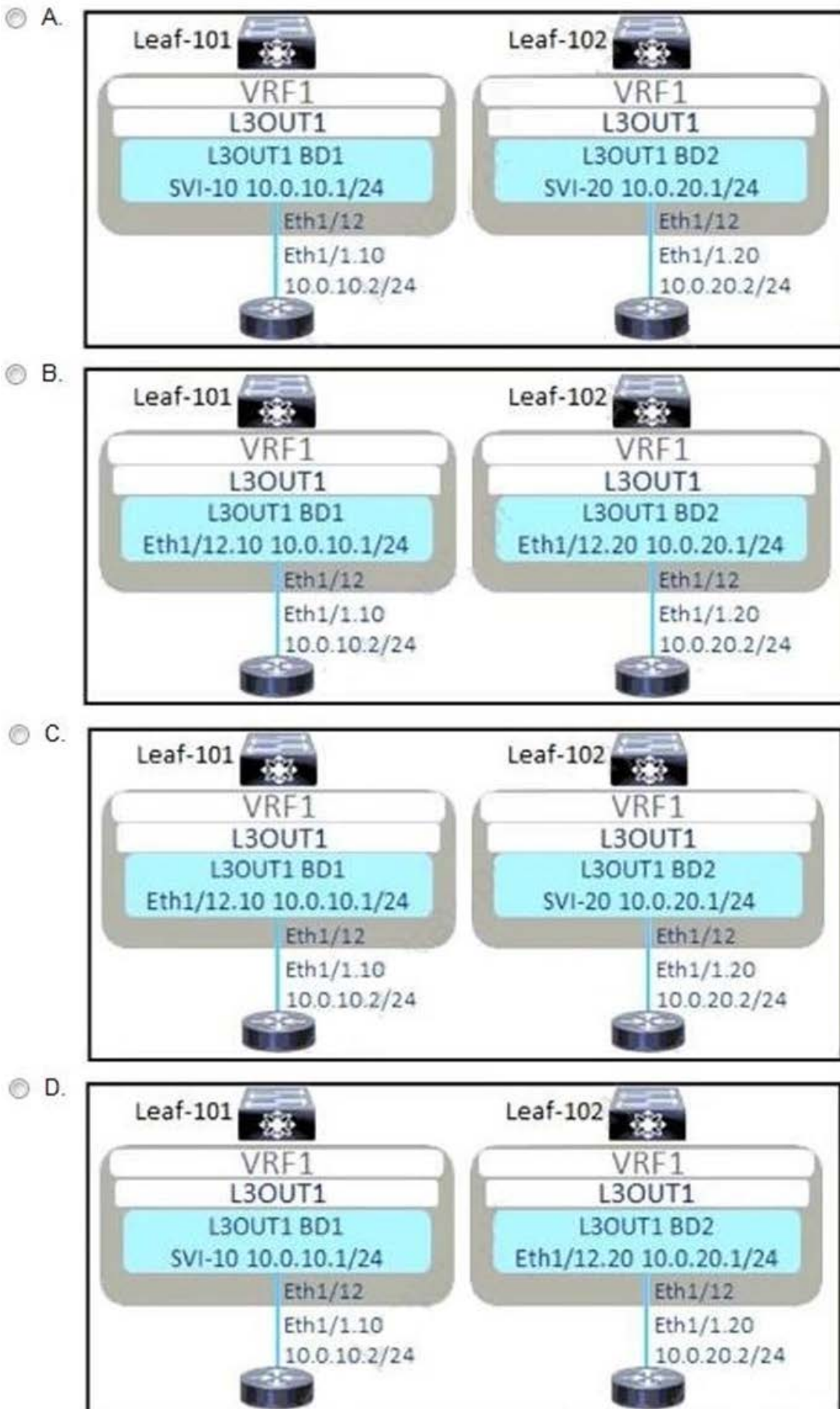
Step 1 – Providing the contract Tenant > Tenant mgmt > Node Management EPGs > Out-of-Band EPG default Under the “Provided Out-of-Band Contracts” in the policy window, provide the appropriate contract. (This could be a the

default/common contract or a specific contract you have created and modified). Click Submit. Tenant > Tenant mgmt > Node Management EPGs > Out-of-Band EPG default Step 2 – Consuming the contract Tenant > Tenant mgmt > External Management Network Instance Profiles > YourInstanceProfile Consume the same contract that you provided in the previous step. Enter the subnets that are allowed to have access to the APIC. (0.0.0.0/0 will permit all).

<https://www.cisco.com/c/dam/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/aci-guide-configuring-out-of-band-access-for-your-fabric.pdf>

QUESTION 8

The customer is looking for redundant interconnection of the existing network to the new ACI fabric. Unicast and multicast traffic must be routed between the two networks. Which L3Out implementation meets these requirements?



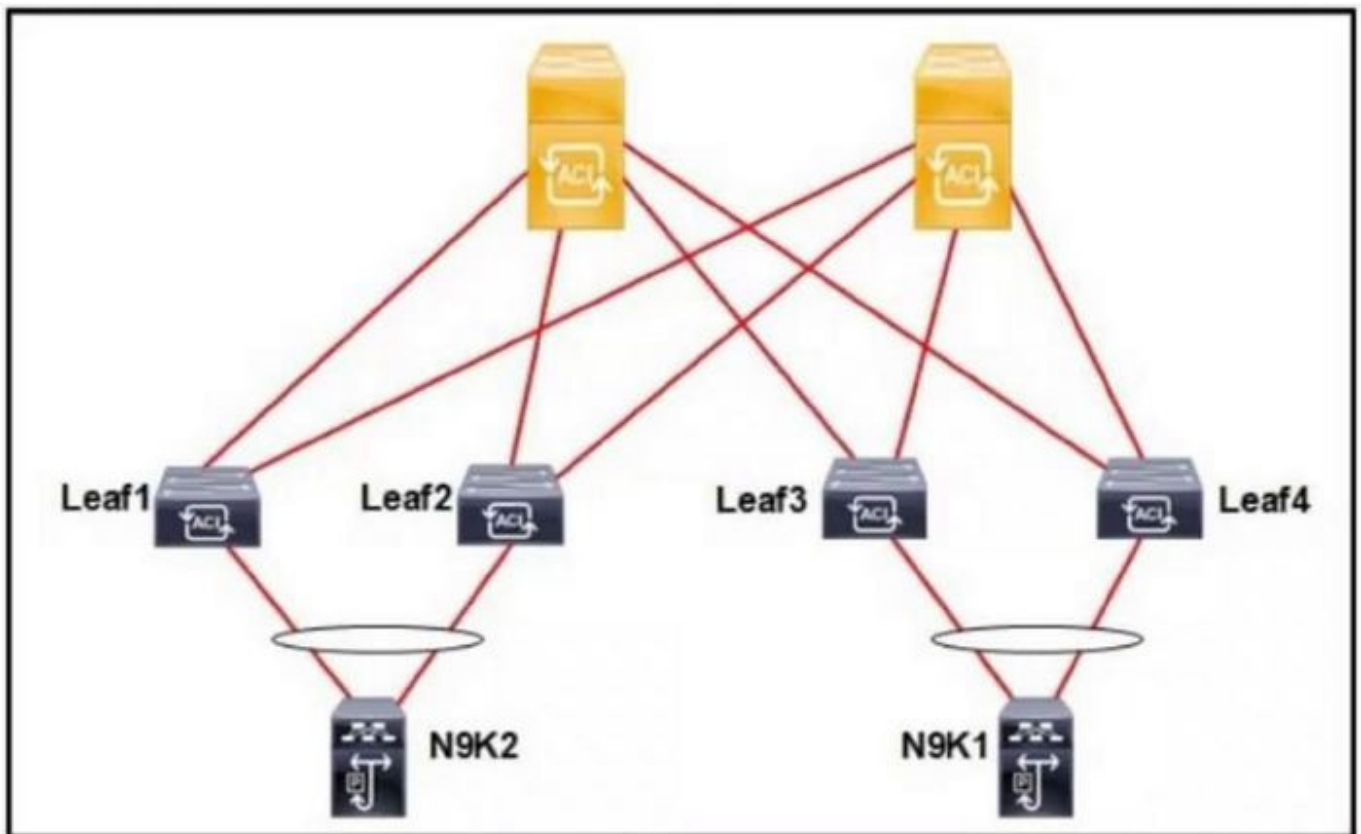
- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B

PIMv4/PIM6 is supported on Layer 3 Out routed interfaces and routed subinterfaces including Layer 3 port-channel interfaces. In the 5.2(2) release and earlier, PIMv4/PIM6 is not supported on Layer 3 Out SVI interfaces. In the 5.2(3) release and later, PIMv4/PIM6 is supported on Layer 3 Out SVI interfaces https://www.cisco.com/c/en/us/td/docs/dcn/ac/i/apic/5x/l3-configuration/cisco-apic-layer-3-networking-configuration-guide-52x/ip-multicast-layer3-config-52x.html#id_21570

QUESTION 9

Refer to the exhibit.



An engineer connects a Cisco ACI fabric to two different Cisco Nexus 9000 Series Switches. The fabric must be configured to ensure a loop-free topology and N9K1 must be configured as the root bridge for VLAN 10. Which action meets these requirements?

- A. Enable STP on ports between the leaf and spine.
- B. Set BPDU Guard on ports between the leaf and Nexus 9000 Series Switches.

- C. Enable Cisco Discovery Protocol on ports between the leaf and spine.
- D. Activate MCP on ports between the leaf and Nexus 9000 Series Switches.

Correct Answer: D

MCP for loop-free topology

QUESTION 10

An engineer must configure a new local user inside a Cisco ACI. The new user must meet these criteria:

1.

Must be provided with complete read-only access to the tenant.

2.

Must be permitted to create and delete EPGs within a specific tenant.

3.

Must not be allowed to modify any other objects within that tenant.

The tenant and security domain association is already in place. Which configuration set configures the new tenant?

A. Create a new role with tenant-admin privilege. Create the local user and assign it to the tenant-security domain. Add the tenant-security domain to the role admin with access privilege type Read. Add the tenant-security domain to the new role with access privilege type Write.

B. Create a new role with tenant-epg privilege. Create the local user and assign it to the tenant-security domain. Add the tenant-security domain to the role read-all with access privilege type Read. Add the tenant-security domain to the new role with access privilege type Write.

C. Create a new role with tenant-connectivity privilege. Create the local user and assign it to the tenant-security domain. Add the tenant-security domain to the role access-admin with access privilege type Read. Add the tenant-security domain to the new role with access privilege type Write.

D. Create a new role with tenant-security privilege. Create the local user and assign it to the tenant-security domain. Add the tenant-security domain to the role tenant-admin with access privilege type Read. Add the tenant-security domain to the new role with access privilege type Write.

Correct Answer: B

QUESTION 11

In-band is currently configured and used to manage the Cisco ACI fabric. The requirement is for leaf and spine switches to use out-of-band management for NTP protocol. Which action accomplishes this goal?

- A. Select Out-of-Band as Management EPG in the default DateTimePolicy.

- B. Create an Override Policy with NTP Out-of-Band for leaf and spine switches.
- C. Change the interface used for APIC external connectivity to ooband.
- D. Add a new filter to the utilized Out-of-Band-Contract to allow NTP protocol.

Correct Answer: A

In the Management EPG drop-down list, if the NTP server is reachable by all nodes on the fabric through out-of-band management, choose Out-of-Band. If you have deployed in-band management, see the details about In-Band Management

NTP. Click OK.

In-band IP addressing used within the ACI fabric is not reachable from anywhere outside the fabric. To leverage an NTP server external to the fabric with in-band management, construct a policy to enable this communication..

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/3-x/basic_config/b_APIC_Basic_Config_Guide_3_x/b_APIC_Basic_Config_Guide_3_x_chapter_0111.html

QUESTION 12

An administrator must migrate the vSphere Management VMkernel of all ESXi hosts in the production cluster from the standard default virtual switch to a VDS that is integrated with APIC in a VMM domain. Which action must be completed in this scenario?

- A. The Management VMkernel EPG resolution must be set to Pre-Provision.
- B. The administrator must create an in-band VMM Management EPG before performing the migration.
- C. The administrator must set the Management VMkernel BD resolution immediacy to On-Demand.
- D. The VMkernel Management BD must be located under the Management Tenant.

Correct Answer: A

QUESTION 13

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

QUESTION 14

The company ESXi infrastructure is hosted on the Cisco UCS-B Blade Servers. The company decided to take advantage of ACI VMM integration to enable consistent enforcement of policies across virtual and physical workloads. The requirement is to prevent the packet loss between the distributed virtual switch and the ACI fabric. Which setting must be implemented on a vSwitch policy to accomplish this goal?

- A. Static Channel
- B. MAC Pinning
- C. LACP
- D. LLDP

Correct Answer: B

QUESTION 15

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

Typically, a fabric administrator configures storm control in fabric access policies on the following interfaces:

1.
A regular trunk interface.
2.
A direct port channel on a single leaf switch.
3.
A virtual port channel (a port channel on two leaf switches).

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

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