Number: 300-620 Passing Score: 800 Time Limit: 120 File Version: 31.0

Exam Code: 300-620
Exam Name: Implementing Cisco Application Centric Infrastructure (DCACI)



Exam A

QUESTION 1

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:

Explanation:

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

QUESTION 2

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:

Explanation:

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

QUESTION 3

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:

QUESTION 4

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:

Explanation:

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

QUESTION 5

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:

QUESTION 6

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:

QUESTION 7

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:

QUESTION 8

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:

Explanation:

Reference: https://www.dclessons.com/l2-external-network-with-aci

QUESTION 9

Where is the COOP database located?

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

Correct Answer: B

Section:

Explanation:

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

QUESTION 10

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: A

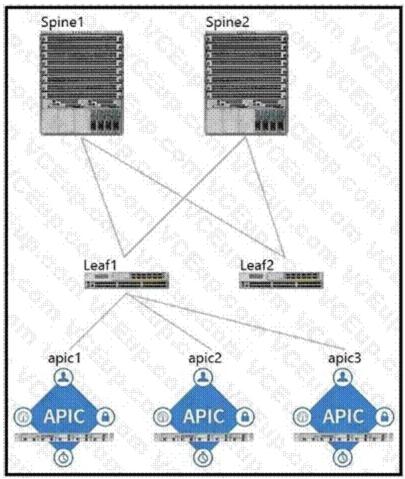
Section:

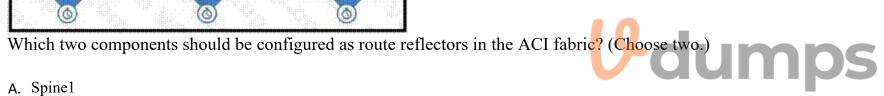
Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/acifundamentals/b ACI-Fundamentals/b ACI-Fundamentals chapter 010011.html

QUESTION 11

Refer to the exhibit.





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

Correct Answer: A, C

Section:

QUESTION 12

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:

Explanation:

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

QUESTION 13
What does a bridge domain represent?
A. Layer 3 cloud
B. Layer 2 forwarding construct
C. tenant
D. physical domain
Correct Answer: B
Section:
Explanation:
$Reference: \ https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/2-x/L2_config/b_Cisco_APIC_Layer_2_Configuration_Guide/b_Cisco_APIC_Layer_2_Configuration_Guide_chapter_010.html$
QUESTION 14
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:
Explanation:
Reference: https://www.cisco.com/c/en/us/solutions/collateral/data-centervirtualization/application-centric-infrastructure/white-paper-c11-739989.html
QUESTION 15
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

Correct Answer: B, E

D. out of band interfaceE. Switch Virtual Interface

Section:

QUESTION 16

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:

QUESTION 17

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:

Explanation:

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

9dumps

QUESTION 18

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:

Explanation:

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

QUESTION 19

Refer to the exhibit.

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

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: C, E

Section:

Explanation:

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

QUESTION 20

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: Explanation:

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

QUESTION 21

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: B

Section:

QUESTION 22

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:

QUESTION 23

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:

Explanation:

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

QUESTION 24

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:

QUESTION 25

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: B, D

Section:

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: D, E

Section:

QUESTION 27

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: C

Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/solutions/collateral/data-centervirtualization/application-centric- infrastructure/white-paper-c07-732033.html# Toc395143571

QUESTION 28

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: B, D

Section:

Explanation:

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

QUESTION 29

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: A, E

Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI Best Practices/b ACI Best Practices chapter 010010.html

QUESTION 30

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:

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI Best Practices/b ACI Best Practices chapter 010010.html

QUESTION 31

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:

QUESTION 32

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:

QUESTION 33

Refer to the exhibit.



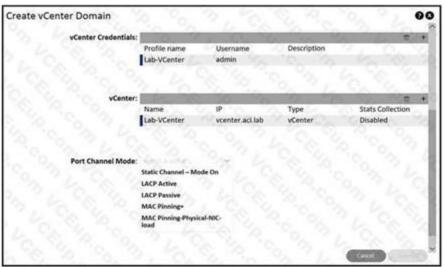
An engineer is integrating a VMware vCenter with Cisco ACI VMM domain configuration. ACI creates port-group names with the format of "Tenant | Application | EPG". Which configuration option is used to generate port groups with names formatted as "Tenant=Application=EPG"?

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

Correct Answer: C Section:

QUESTION 34

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:

QUESTION 35

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:

QUESTION 36

Which Cisco APIC configuration prevents a remote network that is not configured on the bridge domain from being learned by the fabric?

- A. enable Limit IP Learning to Subnet
- B. enable Unicast Routing
- C. enable IP Data-plane Learning
- D. enable ARP Flooding to BD

Correct Answer: A

Section:

Explanation:

Reference:

https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centricinfrastructure/white-paper-c11-739989.html

QUESTION 37

An engineer must advertise a selection of external networks learned from a BGP neighbor into the ACI fabric. Which L3Out subnet configuration option creates an inbound route map for route filtering?

- A. External Subnets for the External EPG
- B. Shared Route Control Subnet
- C. Import Route Control Subnet
- D. Shared Security Import Subnet

Correct Answer: C

Section:

QUESTION 38

An engineer must set up a Cisco ACI fabric to send Syslog messages related to hardware events, such as chassis line card failures. The messages should be sent to a dedicated Syslog server. Where in the Cisco APIC should the policy be configured to meet this requirement?

- A. uni/tn-common/monepg-default
- B. uni/infra/monifra-default
- C. uni/fabric/monfab-default



D. uni/fabric/moncommon

Correct Answer: C

Section:

Explanation:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/4-x/acifundamentals/Cisco-ACI-Fundamentals-401/Cisco-ACI-Fundamentals-401 chapter 01100.html

Configuring Monitoring Policies

Administrators can create monitoring policies with the following four broad scopes:

- · Fabric Wide: includes both fabric and access objects
- · Access (also known as infrastructure): access ports, FEX, VM controllers, and so on
- · Fabric: fabric ports, cards, chassis, fans, and so on
- · Tenant: EPGs, application profiles, services, and so on

The APIC includes the following four classes of default monitoring policies:

- monCommonPol (uni/fabric/moncommon): applies to both fabric and access infrastructure hierarchies
- monFabricPol (uni/fabric/monfab-default): applies to fabric hierarchies
- · monInfraPol (uni/infra/monifra-default); applies to the access infrastructure hierarchy
- · monEPGPo1 (uni/tn-common/monepg-default): applies to tenant hierarchies

QUESTION 39

The existing network and ACI fabric have been connected to support workload migration. Servers will physically terminate at the Cisco ACI, but their gateway must stay in the existing network. The solution needs to adhere to Cisco's best practices. The engineer started configuring the relevant Bridge Domain and needs to complete the configuration. Which group of settings are required to meet these requirements?

A. L2 Unknown Unicast: Hardware Proxy
 L3 Unknown Multicast Flooding: Flood
 Multi Destination Flooding: Flood in BD

ARP Flooding: Enable

B. L2 Unknown Unicast: Flood

L3 Unknown Multicast Flooding: Flood Multi Destination Flooding: Flood in BD

ARP Flooding: Enable

C. L2 Unknown Unicast: Flood

L3 Unknown Multicast Flooding: Optimize Flood

Multi Destination Flooding: Flood in BD

ARP Flooding: Disable

D. L2 Unknown Unicast: Hardware Proxy
 L3 Unknown Multicast Flooding: Optimize Flood
 Multi Destination Flooding: Flood in BD
 ARP Flooding: Disable

Correct Answer: B

Section:

Explanation:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/migration guides/migrating existing networks to aci.html



QUESTION 40

An engineer must implement management policy and data plane separation in the Cisco ACI fabric. Which ACI object must be created in Cisco APIC to accomplish this goal? **U**dumps

- A. Application profile
- B. Tenant
- C. Contract
- D. Bridge domain

Correct Answer: D Section:

QUESTION 41

An engineer is implementing a Cisco ACI environment that consists of more than 20 servers. Two of the servers support only Cisco Discovery Protocol with no order link discovery protocol. The engineer wants the servers to be discovered automatically by the Cisco ACI fabric when connected. Which action must be taken to meet this requirement?

- A. Create an override policy that enables Cisco Discovery Protocol after LLDP is enabled in the default policy group.
- B. Configure a higher order interface policy that enables Cisco Discovery Protocol for the interface on the desired leaf switch.
- C. Configure a lower order policy group that enables Cisco Discovery Protocol for the interface on the desired leaf switch.
- D. Create an interface profile for the interface that disables LLDP on the desired switch that is referenced by the interface policy group.

Correct Answer: B

Section:

QUESTION 42

An engineer wants to monitor all configuration changes, threshold crossing, and link-state transitions in a Cisco ACI fabric. Which action must be taken to receive the required messages?

- A. Add Faults and Events to the monitor policy.
- B. Add Session Logs and Audit Logs to the monitor policy.
- C. Include Audit Logs and Events in the Syslog source policy.
- D. Include Events and Session Logs in the Syslog source policy.

Correct Answer: B

Section:

Explanation:

After searching, there is nothing called "syslog source policy" in ACI. Syslog source policy exists in UCS Central. The choices now are on "Monitoring Policy" that exits on A and C. https://community.cisco.com/legacyfs/online/attachments/blog/technote-aci-syslog externallatest.pdf

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 010.html





QUESTION 43

An organization has encountered many STP-related issues in the past due to failed hardware components. They are in the process of long-term migration to a newly deployed ACI fabric. Senior engineers are worried that spanning-tree loops in the existing network may be extended to the ACI fabric. Which feature must be enabled on the ACI leaf ports to protect the fabric from spanning-tree loops?

- A. BPDU Guard
- B. per-VLANMCP
- C. Storm Control
- D. BPDU Filter

Correct Answer: A

Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/4-x/acifundamentals/Cisco-ACI-Fundamentals-401/Cisco-ACI-Fundamentals-401 chapter 0101.html

QUESTION 44

A network engineer must design a method to allow the Cisco ACI to redirect traffic to the firewalls.

Only traffic that matches specific L4-L7 policy rules should be redirected. The load must be distributed across multiple firewalls to scale the performance horizontally. Which action must be taken to meet these requirements?

- A. Configure ACI Service Graph with Unidirectional PBR.
- B. Implement ACI Service Graph with GIPo.
- C. Implement ACI Service Graph Two Nodes with GIPo.
- D. Configure ACI Service Graph with Symmetric PBR.

Correct Answer: D

Section:

Explanation:

https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centricinfrastructure/white-paper-c11-739971.html

Requirements and design considerations

This section presents the requirements and design considerations for Cisco ACI PBR. Note that this document refers to a service graph device with the PBR feature as a PBR node, and it refers to a bridge domain that contains a PBR node interface as a PBR node bridge

The main Cisco ACI PBR capabilities are as follows:

- PBR works with both physical and virtual service appliances.
- . PBR works with service graphs in both managed mode (service-policy mode) and unmanaged mode (network-policy mode).
- PBR works with both bidirectional and unidirectional contracts.
- . PBR can be used between L3Out EPG and EPGs, between EPGs, and between L3Out EPGs.
- PBR is supported in Cisco ACI Multi-Pod, Multi-Site, and Remote Leaf environments.
- The load can be distributed across multiple L4-L7 devices (symmetric PBR)

The main use cases for Cisco ACI PBR are as follows:

- Use PBR to insert firewalls or load balancers in the path between endpoints while keeping the default gateway on the Cisco ACI fabric to use distributed routing.
- Use PBR to insert an L4-L7 device in the path between endpoints that are in the same subnet.
- Use PBR to send traffic selectively to L4-L7 devices based on protocol and port filtering.
- Use Symmetric PBR to horizontally scale the performance of L4-L7 devices.



QUESTION 45

An engineer created two interface protocol policies called Pol CDP40275332 and Pol LLDP46783451. The policies must be used together in a single policy. Which ACI object must be used?

- A. interface policy group
- B. switch policy group
- C. switch profile
- D. interface profile

Correct Answer: D

Section:

QUESTION 46

What is the minimum number of APICs does Cisco recommend to deploy in a production cluster?

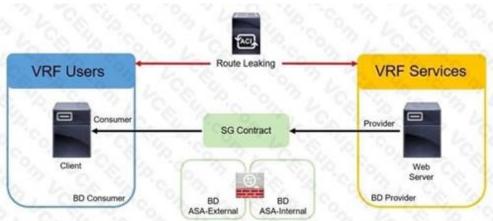
- A. 1
- B. 3
- c. 4
- D. 5

Correct Answer: B

Section:

QUESTION 47

Refer to the exhibit.



An engineer must implement the inter-tenant service graph. Which set of actions must be taken to accomplish this goal?

- A. Define the contract in the provider tenant and export it to the consumer tenant.
 - Define the L4-L7 device, service graph template, and ASA bridge domains in the provider tenant.
- B. Define the contract in the provider tenant and export it to the consumer tenant.
 - Define the L4-L7 device and service graph template in the provider tenant and the ASA bridge domains in the consumer tenant
- C. Define the contract in the provider tenant and export it to the provider tenant.
 - Define the L4-L7 device and service graph template in the provider tenant and the ASA bridge domains in the consumer tenant.
- D. Define the contract in the provider tenant and export it to the provider tenant.
 - Define the L4-L7 device, service graph template, and ASA bridge domains in the consumer tenant.

Correct Answer: A

Section:

QUESTION 48





When the subnet is configured on a bridge domain, on which physical devices is the gateway IP address configured?

- A. all leaf switches and all spine nodes
- B. only spine switches where the bridge domain of the tenant is present
- C. only leaf switches where the bridge domain of the tenant is present
- D. all border leaf nodes where the bridge domain of the tenant is present

Correct Answer: C

Section:

Explanation:

Reference: http://www.netdesignarena.com/index.php/2016/06/16/aci-tenant-building-blocksforwarding-logic/

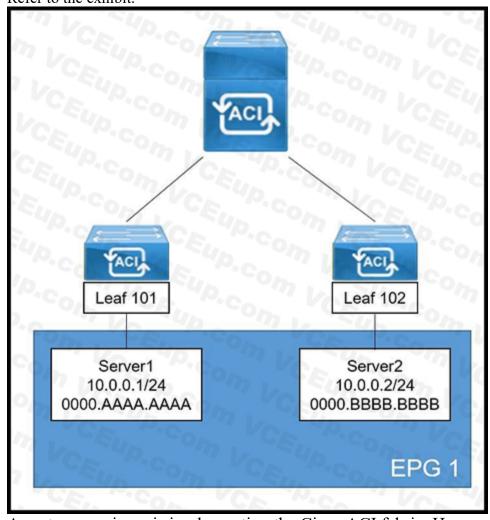
https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/Operating ACI/guide/b Cisco Operating ACI/b Cisco Operating ACI chapter 0111.html

From a practical perspective, each bridge domain will exist in a particular leaf if there is a connected endpoint that belongs to that perfectly provide the provider of the provider of the perfect of the provider of the provider of the provider of the perfect o

to that endpoint group. Each bridge domain receives a VLAN ID in the leaf switches.

QUESTION 49

Refer to the exhibit.





A systems engineer is implementing the Cisco ACI fabric. However, the Server2 information is missing from the Leaf 101 endpoint table and the COOP database of the spine. The requirement is for the bridge domain configuration to enforce the ACI fabric to forward the unicast packets generated by Server1 destined to Server2. Which action must be taken to meet these requirements?

- A. Enable ARP Flooding
- B. Set L2 Unknown Unicast to Flood
- C. Set IP Data-Plane Learning to No

D. Enable Unicast Routing

Correct Answer: B

Section:

Explanation:

Both servers are in the same subnet. ARP flooding is out if we read the article in the link. Also unicast routing is not needed. https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centricinfrastructure/white-paper-c11-739989.html

Silent hosts considerations

In the case of silent hosts, where an ACHeaf hasn't learned a local endpoint, ACI has some mechanisms to detect those silent hosts. Some

of them are controlled by BD configurations. Following are explanations of each scenario with related BD configurations.

For (L2) switched traffic to an unknown MAC, the L2 Unknown Unicast option under the BD may need to be set to "Flood". This is because

the ACI fabric with the L2 Unknown Unicast "Hardware Proxy" configuration drops the L2 unicast packets on the spine in cases where the destination MAC has not been learned as an endpoint anywhere on the BD in ACI, and the COOP database doesn't have the information.

QUESTION 50

An engineer must allow multiple external networks to communicate with internal ACI subnets. Which action should the engineer take to assign the prefix to the class ID of the external Endpoint Group?

- A. Enable the Export Route Control Subnet for the External Endpoint Group flag.
- B. Enable an L30ut with Shared Route Control Subnet.
- C. Configure subnets with the External Subnets for External EPG flag enabled.
- D. Configure subnets with the Import Route Control Subnet flag enabled.

Correct Answer: C

Section:

Explanation:

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_01001.html

The external authority for an external EPG are used to define the authority that should be classified to the external EPG. This policy does not affect routing it is similar to an Access Control List (ACL) that assigns a prefix to the class at joc Tag) of the external EPG.

QUESTION 51

An engineer must ensure that Cisco ACI flushes the appropriate endpoints when a topology change notification message is received in an MST domain. Which three steps are required to accomplish this goal? (Choose three.)

- A. Enable the BPDU interface controls under the spanning tree interface policy.
- B. Configure a new STP interface policy.
- C. Bind the spanning tree policy to the switch policy group.
- D. Associate the STP interface policy to the appropriate interface policy group.
- E. Create a new region policy under the spanning tree policy.
- F. Map VLAN range to MAT instance number.

Correct Answer: A, B, D

Section:

QUESTION 52

A Cisco ACI bridge domain and VRF are configured with a default data-plane learning configuration. Which two endpoint attributes are programmed in the leaf switch when receiving traffic? (Choose two.)

- A. Remote MAC. IP
- B. Remote Subnet

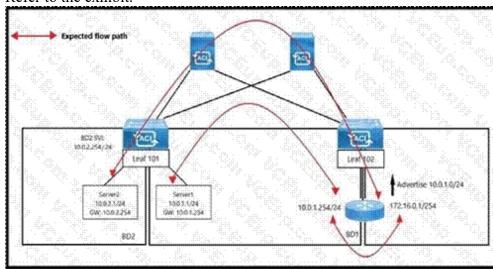
- C. Local IP, not MAC
- D. Local MAC, IP
- E. Local Subnet
- F. Remote IP

Correct Answer: A, D

Section:

QUESTION 53

Refer to the exhibit.



An engineer wants to initiate an ICMP ping from Server1 to Server2. The requirement is for the BD1 to enforce ICMP replies that follow the expected path. The packets must be prevented from taking the direct path from Leaf1 to Server1.

Which action must be taken on BD1 to meet these requirements?

- A. Set L2 Unknown Unicast to Flood.
- B. Set L2 Unknown Unicast to Hardware Proxy.
- C. Disable Unicast Routing.
- D. Enable ARP Flooding.

Correct Answer: B

Section:

QUESTION 54

Which endpoint learning operation is completed on the ingress leaf switch when traffic is received from a Layer 3 Out?

- A. The source MAC 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. The source IP address of the traffic is learned as a remote endpoint.
- D. The source IP address of the traffic is learned as a local endpoint.

Correct Answer: B

Section:

QUESTION 55

An engineer must configure a group of servers with a contract that uses TCP port 80. The EGP 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 EGP as a provider and L3 out as consumer of the contract.
- B. Configure OSPF to exchange routes between the L3 out and EGP.
- 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

Section:

OUESTION 56

The unicast routing feature is enabled on the bridge domain. Which two conditions enable the Cisco ACI leaf to learn a source IP as a local endpoint? (Choose two.)

- A. Through Ethernet traffic received in a bridge domain.
- B. IP traffic routed through an SVI.
- C. Through VXLAN traffic received on the uplink.
- D. IP traffic routed through a Layer 3 Out.
- E. Through ARP received on an SVI.

Correct Answer: B, E

Section:

Explanation:

https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centricinfrastructure/white-paper-c11-739989.html

A Cisco ACt leaf switch follows these steps to learn a local endpoint MAC address and IP address:

1. The Cisco ACI leaf receives a packet with a source MAC Address (MAC A) and source IP Address (IP A).

2. The Cisco ACI leaf learns MAC A as a local endpoint.

3. The Cisco ACI leaf learns IP A tied to MAC A if the packet is an ARP packet.

4. The Cisco ACI leaf learns IP A tied to MAC A if the packet is routed.

In Figure 5, the packet is Layer 3 traffic with the Cisco ACI bridge domain Switch Virtual Interface (SVI) as its default dateway. The both the MAC address and IP address (Src MAC S and Src IP 192/165.1.1 in the figure) are learned as a single local endpoint on LEAF1. and only IP address 192.188.1.1 is learned as a remote endpoint on LEAF 2.

QUESTION 57

When does the Cisco ACI leaf learn a source IP or MAC as a remote endpoint?

- A. When VXLAN traffic arrives on a leaf fabric port from the spine and outer source IP is in the Layer 3 Out EPG subnet range.
- B. When VXLAN traffic arrives on a leaf fabric port from the spine and outer source IP is in the bridge domain subnets range.
- C. When VXLAN traffic arrives on a leaf fabric port from the spine and inner source IP is in the Layer 3 Out EPG subnet range.
- D. When VXLAN traffic arrives on a leaf fabric port from the spine and inner source IP is in the bridge domain subnets range.

Correct Answer: D

Section:

QUESTION 58

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: D

Section:

QUESTION 59

An engineer is configuring ACI VMM domain integration with Cisco UCS-B Series. Which type of port channel policy must be configured in the vSwitch policy?

- A. LACP Active
- B. MAC Pinning
- C. LACP Passive
- D. MAC Pinning-Physical-NIC-load

Correct Answer: A

Section:

Explanation:

Reference: https://www.cisco.com/c/en/us/support/docs/cloud-systems-management/applicationpolicy-infrastructure-controller-apic/118965-config-vmm-aci-ucs-00.html

QUESTION 60

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

Section:

Explanation:

https://www.cisco.com/c/en/us/support/docs/cloud-systems-management/application-policyinfrastructure-controller-apic/200128-Configuring-NTP-in-ACI-Fabric-Solution.html

QUESTION 61

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?

dumps

- A. The Management VMkernel EPG resolution must be set to Pre-Provosion.
- 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

Section:

QUESTION 62

What is the effect of enabling the disable Remote EP learn feature?

- A. It disables remote IP endpoint learning on all leaf nodes in the fabric.
- B. It disables remote IP endpoint learning on leaf switches that do not have L3Outs.
- C. It limits learning of compute leaf endpoints on border leaves.
- D. It prevents border leaf switches from receiving routes through peering with external routers.

Correct Answer: A

Section:

Explanation:

https://unofficialaciguide.com/2018/11/29/aci-best-practice-configurations/

QUESTION 63

What are two descriptions of ACI multi-site? (Choose two.)

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

Correct Answer: A, E

Section:

OUESTION 64

An engineer must connect a new host to port 1 »'1 on Leaf 101. A Cisco ACI fabric has an MOP policy configured but experience excessive Layer 2 loops The engineer wants the Cisco ACI fabric to detect and prevent Layer 2 loops m the fabric Which set of actions accomplishes these goals'?

Enable MCP globally.
 Associate the MCP policy with an interface selector.

 Enable MCP globally.
 Associate the MCP policy with an interface policy group.

 Enable MCP locally.
 Associate the MCP policy with an interface policy group.

 Enable MCP locally.
 Associate the MCP policy with an interface profile.

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

Correct Answer: B

Section:

QUESTION 65

A network engineer is integrating a new Hyperflex storage duster into an existing Cisco ACI fabric The Hyperflex cluster must be managed by vCenter so a new vSphere Distributed switch must be created In addition the hardware discovery must be performed by a vendor-neutral discovery protocol Which set of steps meets these requirements'?

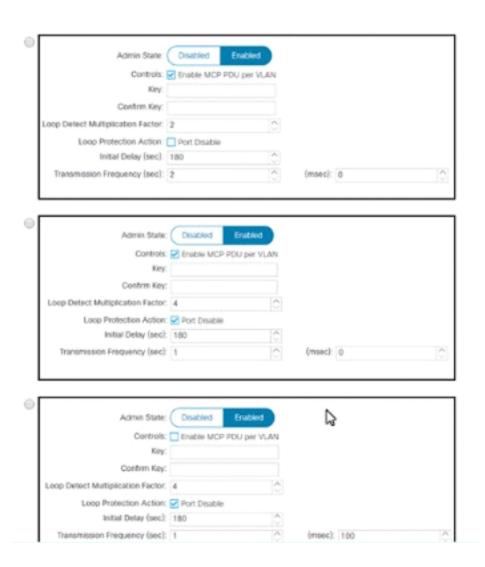
- Configure an Interface Policy group, select CDP, and apply it to the desired interfaces. Enter the vCenter IP and credentials in the Create vCenter Controller dialog box. In the Create VMware VMM domain dialog box, select Read-Only Mode.
- Configure an Interface Policy group, select CDP, and apply it to the designated interfaces. Create a VMware VMM domain, add it to the VLAN pool, and associate it to the designated interfaces. Select Read Only Mode In the Create VMware VMM domain dialog box.
- Configure an Interface Policy group, select LLDP, and apply it to the selected interfaces. Create a VLAN pool, add it to the VMware VMM domain, and include the appropriate interfaces. Enter the vCenter IP and credentials in the Create vCenter Controller dialog box.
- © Configure a Switch Policy group, select LLDP, and apply it to the indicated interfaces. Set up a VMware VMM domain and apply it to the appropriate interfaces. Enter the APIC management IP and credentials in the Create vCenter Controller dialog box.
- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

Section:

QUESTION 66

A network engineer must configure a Cisco ACI system to detect network loops for untagged and tagged traffic The loop must be detected and slopped by disabling an interface within 4 seconds Which configuration must be used?



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

Correct Answer: B

Section:

QUESTION 67





Refer to the exhibit A customer must back up the current Cisco ACl configuration securely to the remote location using encryption and authentication. The backup job must run once per day The customer's security policy mandates that any sensitive information including passwords, must not be exported from the device Which set of steps meets these requirements?





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

Correct Answer: B Section:

QUESTION 68

What is MP-BGP used for in Cisco ACl fabric?

- A. MP-BGP VPNv4 AF is used to propagate L3Out routes that are received from a border leaf to the fabric.
- B. MP-BGP VPNv4 AF is used between spines in an ACI Multi-Pod fabric to propagate the endpoint
- C. MP-BGP VPNv4 AF is used as protocol on L3Out between a border leaf and an external router
- D. MP-BGP Layer 2 VPN EVPN AF is used to propagate L30ut routes that are received from a border leaf.

Correct Answer: A

Section:

QUESTION 69

An engineer must securely export Cisco APIC configuration snapshots to a secure, offsite location The exported configuration must be transferred using an encrypted tunnel and encoded with a platform-agnostic data format that provides namespace support Which configuration set must be used?



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

Correct Answer: D

Section:



QUESTION 70

A Cisco APIC is configured with RADIUS authentication as the default The network administrator must ensure that users can access the APIC GUI with a local account if the RADIUS server is unreachable. Which action must be taken to accomplish this goal?

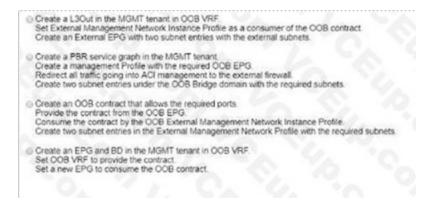
- A. Create an additional login domain that references local accounts
- B. Enable the fallback check with the default authentication domain
- C. Associate console authentication with the "RADIUS" realm.
- D. Reference the local realm in the fallback domain

Correct Answer: D

Section:

QUESTION 71

A network engineer must allow secure access to the Cisco ACl out-of-band (OOB) management only from external subnets 10 0 0024 and 192.168 20 G'25. Which configuration set accomplishes this goal?



A. Option A

B. Option B

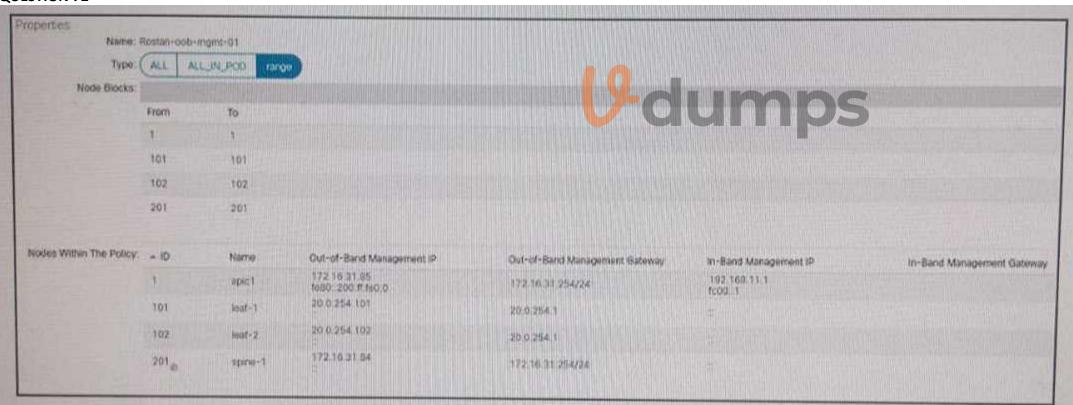
C. Option C

D. Option D

Correct Answer: C

Section:

QUESTION 72



Refer to the exhibit A Cisco ACI fabric is using out-of-band management connectivity The APIC must access a routable host with an IP address of 192 168 11 2 Which action accomplishes this goal?

- A. Change the switch APIC Connectivity Preference to in-band management
- B. Remove the in-band management address from the APIC.
- C. Add a Fabric Access Policy to allow management connections.
- D. Modify the Pod Profile to use the default Management Access Policy

Correct Answer: B

Section:

QUESTION 73

A bridge domain for an EPC called "Web Servers" must be created in the Cisco APIC. The configuration must meet these requirements:

Only traffic to known Mac addresses must be allowed to reduce noice.

The multicast traffic must be limited to the ports that are participating in multicast routing.

The endpoints within the bridge domain must be kept in the endpoint table for 20 minutes without any updates.

Which set of steps configures the bridge domain that satisfies the requirements?

A. Select the ARP Flooding checkbox.

Create an Endpoint Retention Policy with a Remote Endpoint Aging Interval of 20 minutes.

Set L3 Unknown Multicast Flooding to Optimized Flooding

B. Set L2 Unknown Unicast to Hardware Proxy.

Configure L3 Unknown Multicast Flooding to Optimized Flood.

Create an Endpoint Retention Policy with a Local Endpoint Aging interval of 1200 seconds.

C. Switch L2 Unknown Unicast to Flood.

Select the default Endpoint Retention Policy and set the Local Endpoint Aging to 20 minutes.

Set Multicast Destination Flooding to Flood in Encapsulation.

D. Multicast Destination Flooding should be set to Flood in BD.

Set L3 Unknown Multicast Flooding to Flood.

Select the default Endpoint Retention Policy with a Local Endpoint Aging Interval of 1200 seconds.

Correct Answer: B

Section:

QUESTION 74

The company's Cisco ACI fabric hosts multiple customer tenants. To meet a service level agreement, the company is constantly monitoring the Cisco ACI environment. Syslog is one of the methods used for monitoring. Only events related to leaf and spine environmental information without specific customer data should be logged. To which ACI object must the configuration be applied to meet these requirements?

- A. access policy
- B. infra tenant
- C. switch profile
- D. fabric policy

Correct Answer: D

Section:

QUESTION 75

A Cisco ACI is integrated with a VMware vSphere environment. The port groups must be created automatically in vSphere and propagated to hypervisors when created in the ACI environment. Which action accomplishes this goal?

- A. Associate the VMM domain with the EPGs that must be available in vCenter.
- B. Assign the uplinks of the ESXi hosts to the vDS that the APIC created.
- C. Configure contracts for the EPGs that are required on the ESXi hosts.
- D. Create the port groups on the vCenter that reflect the EPG names in the APIC.

Correct Answer: A

Section:

QUESTION 76

An engineer is troubleshooting fabric discovery in a newly deployed Cisco ACI fabric and analyzes this output:

An engineer is troubleshooting fabric discovery in a newly deployed Cisco ACI fabric and analyzes this output:

LEAF101# show ip int brief vrf overlay-1
(...output truncated for brevity...)
IP Interface Status for VRF "overlay-1"(4)
Interface Address Interface Status
Io1023 10.233.44.32/32 protocol-up/link-up/admin-up

LEAF101# show vian extended
VLAN Name Encap Ports

8 infra:default vxlan-38802518, Eth1/1, Eth1/2, Eth1/47
vian-3600

Which ACI fabric address is assigned to interface lo1023?

- A. Dynamic tunnel endpoint
- B. Physical tunnel endpoint
- C. Fabric tunnel endpoint
- D. VXLAN tunnel endpoint

Correct Answer: D

Section:

QUESTION 77

An ACI engineer is implementing a Layer 3 out inside the Cisco ACI fabric that must meet these requirements:

The data center core switch must be connected to one of the leaf switches with a single 1G link.

The routes must be exchanged using a link-state routing protocol that supports hierarchical network design.

The data center core switch interface must be using 802.1Q tagging, and each vlan will be configured with a dedicated IP address. Which set of steps accomplishes these goals?

- which set of steps decomprishes these godis.
- A. Set up the ElGRP Protocol policy with the selected Autonomous System number. Set up the Routed External Network object and Node Profile, selecting ElGRP Create the Switch profile, selecting Portchannel and the appropriate interfaces Create the default network and associate it with the Routed Outside object.
- B. Set up the BGP Protocol policy with the Autonomous System number of 0. Configure an interface policy and an External Bridged Domain. Create an External Bridged Network using the configured VLAN pool. Build the Leaf profile, selecting Routed sub-interface and the appropriate VLAN.
- C. Configure the OSPF Protocol policy with an area of 0. Create Routed Outside object and Node Profile, selecting OSPF as the routing protocol. Build the Interface profile, selecting Routed Sub-interface and the appropriate VLAN. Configure the External Network object with a network of 0.0.0.0/0.
- D. Set up the EIGRP Protocol policy with the selected Autonomous System number. Create the Routed Outside object and Node Profile selecting EIGRP Configure the Interface profile selecting Routed Interface and the appropriate interfaces. Create the External Network object with a network of 0.0.0.0/0.

Correct Answer: C

Section:

QUESTION 78

An engineer must advertise a bridge domain subnet out of the ACI fabric to an OSPF neighbor. Which two configuration steps are required? (Choose two.)

- A. Configure Subnet scope to Advertised Externally
- B. Add External Subnet for External EPG flag under External EPG.
- C. Create Route Control Profile with the export direction under External EPG.
- D. Add L50ut profile to the bridge domain using Associated L30uts section
- E. Configure the Subnet under the EPG level.

Correct Answer: A, D

Section:

QUESTION 79

An engineer must perform a Cisco ACI fabric upgrade that minimizes the impact on user traffic and allows only permitted users to perform an upgrade. Which two configuration steps should be taken to meet these requirements?

- A. Divide Cisco APIC controllers into two or more maintenance groups.
- B. Grant tenant-ext-admin access to a user who performs an upgrade
- C. Combine all switches into an upgrade group.
- D. Divide switches into two or more maintenance groups.
- E. Grant the fabric administrator role to a user who performs an upgrade.

Correct Answer: D, E

Section:

QUESTION 80

An engineer is in the process of discovering a new Cisco ACI fabric consisting of two spines and four leaf switches. The discovery of leaf 1 has just been completed. Which two nodes are expected to be discovered next? (Choose two.)

- A. spine 1
- B. leaf 4
- C. spine 2
- D. leaf 3
- E. leaf 2



Correct Answer: A, C

Section:

QUESTION 81

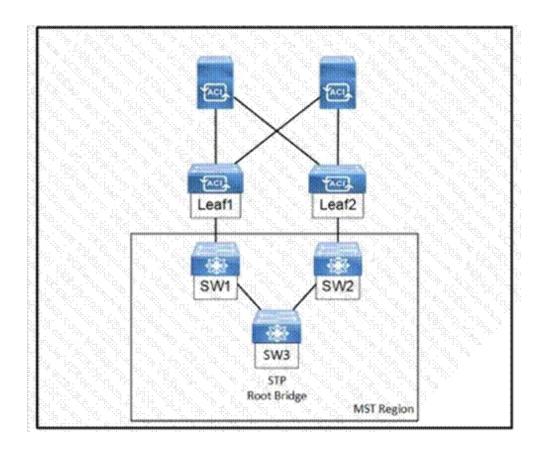
All workloads in VLAN 1001 have been migrated into EPG-1001. The requirement is to move the gateway address for VLAN 1001 from the core outside the Cisco ACI fabric into the Cisco ACI fabric. The endpoints in EPG-1001 must route traffic to endpoints in other EPGs and minimize flooded traffic in the fabric. Which configuration set is needed on the bridge domain to meet these requirements?

- A. Disable ARP Flood Disable Limn Endpoint Learning
- B. Enable Hardware Proxy Enable Unicas! Routing
- C. Disable Local IP Learning Limit Disable Unicast Routing
- D. Enable Flood Enable Unicast Routing

Correct Answer: B

Section:

QUESTION 82



U-dumps

Refer to the exhibit, An engineer is deploying a Cisco ACI environment but experiences a STP loop between switch1 and switch2. Which configuration step is needed to break the STP loop?

- A. Configure the STP instance to VLAN mapping under the switch STP policy.
- B. Configure a Layer 2 external bridged network on the interfaces facing the MST switches.
- C. Enable the native VLAN on the interfaces facing the MST switches using static pons in a dedicated EPG.
- D. Enable BPDU filter under the STP interface policy on the Interfaces lacing the MST switches.

Correct Answer: C

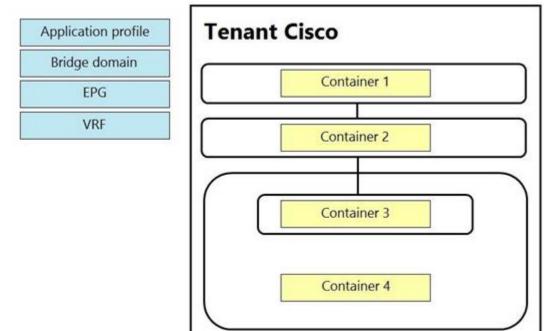
Section:

QUESTION 83

DRAG DROP

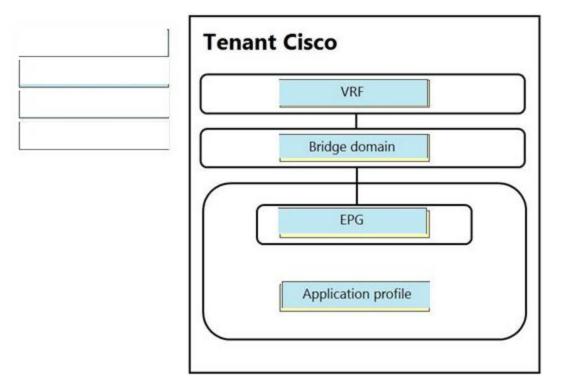
An engineer is configuring a VRF for a tenant named Cisco. Drag and drop the child objects on the left onto the correct containers on the right for this configuration.

Select and Place:





Correct Answer:



Section:

Explanation:

QUESTION 84

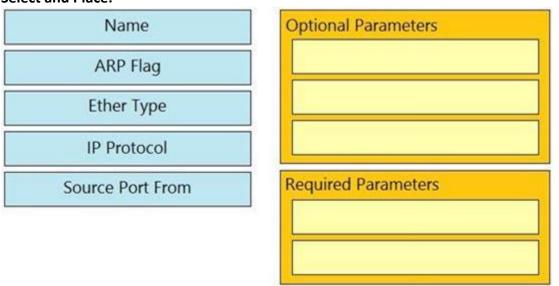
DRAG DROP

DRAG DROP

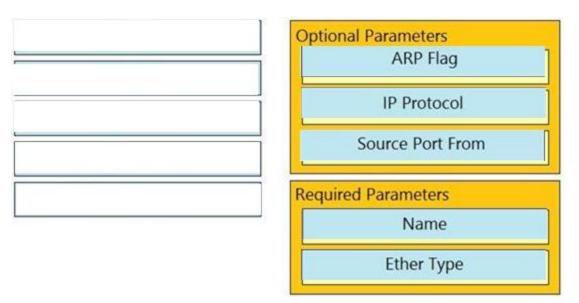
Drag and drop the Cisco ACI filter entry options from the left onto the correct categories on the right indicating what are required or optional parameters.

Solact and Dlace:

Select and Place:



Correct Answer:



Section:

Explanation:

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

QUESTION 85

A Cisco ACI environment consists of multiple silent hosts that are often relocated between leaf switches. When the host is relocated, the bridge domain takes more than a few seconds to relearn the host's new location. The requirement is to minimize the relocation impact and make the ACI fabric relearn the new location of the host faster. Which action must be taken to meet these requirements?

- A. Set Unicast Routing to Enabled.
- B. Configure ARP Flooding to Enabled.
- C. Set L2 Unknown Unicast to Hardware Proxy.
- D. Configure IP Data-Plane Learning to No.



Correct Answer: B

Section:

QUESTION 86

Refer to the exhibit.



Refer to the exhibit. An engineer configures an L3Out but receives the error presented. Which action clears the fault?

- A. Acknowledge the QoS-related error.
- B. Associate a custom QoS class.
- C. Create a custom QoS policy.
- D. Set the QoS policy to Level 3.

Correct Answer: A

Section:

QUESTION 87

A customer must upgrade the Cisco ACI fabric to use a feature from the new code release. However, there is no direct path from the current release to the desired one. Based on the Cisco APIC Upgrade/Downgrade Support Matrix, the administrator must go through one intermediate release.

Which set of steps must be taken to upgrade the fabric to the new release?

A. Upgrade the APICs to an interim release.

Upgrade the switches to an interim release.

Upgrade the APICs to the targeted release.

Upgrade the leaf and spine switches to the targeted release.

B. Upgrade the APICs to an interim release and then switches to an interim release.

When all switches are operational, upgrade leaf switches to the targeted release.

Upgrade the spine switches to the targeted release.

Upgrade the APICs to the targeted release.

C. Upgrade the APICs to an interim release.

Upgrade the leaf switches directly to the targeted release.

Upgrade the spine switches directly to the targeted release.

Upgrade the APICs to the targeted release.

D. Upgrade the APICs directly to the targeted release.

Upgrade the switches to an interim release.

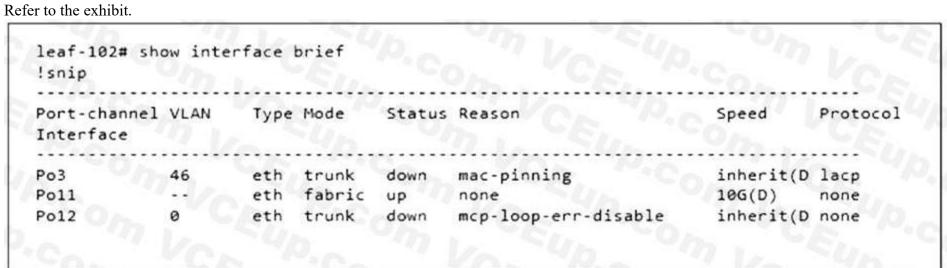
When all switches are operational, upgrade the leaf switches to the targeted release.

Upgrade the spine switches to the targeted release.

Correct Answer: A

Section:

QUESTION 88



Refer to the exhibit. Which two configuration steps are completed before this output is generated?



(Choose two.)

- A. MCP policy for the interface policy group for Port-channel 12 is enabled.
- B. MCP Instance Policy default in the global access policies is enabled.
- C. Error Disabled Recovery Policy for Loop Indication by MCP is set to True.
- D. BPDU Guard is enabled for the interface policy group for Port-channel 12.
- E. Spanning Tree Policy Region STP_4CAF232E48FF20 is added to the spanning-tree policy of the switch.

Correct Answer: A, D

Section:

QUESTION 89

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.

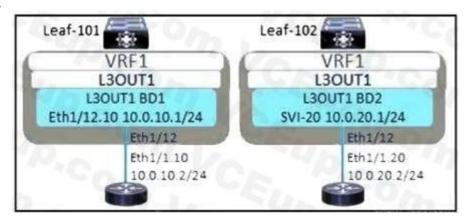




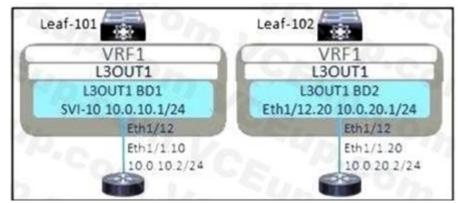
В.



C.



D.



Correct Answer: A Section:

QUESTION 90

A network engineer configures the Cisco ACI fabric to connect to vCenter with these requirements: Port groups must be automatically created on the distributed virtual switch. Port groups must use the VLAN allocation in the range between 20-30. The deployment must optimize the CAM space on the leaf switches.

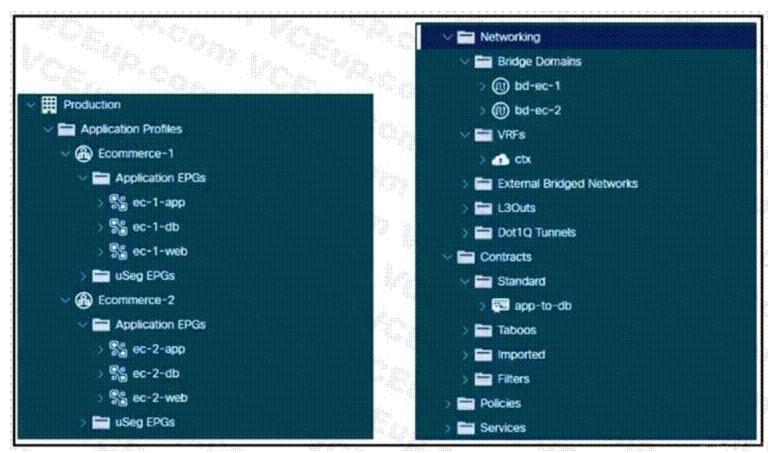
Which set of actions meets these criteria?

- A. Create a dynamic VLAN pool with the VLAN range of 20-30. Create a VMM domain and associate it with the VLAN pool. Create the EPG and associate the domain. Set the deployment immediacy to On Demand.
- B. Create a dynamic VLAN pool with the VLAN range of 20-30. Create a physical domain and associate it with the VLAN pool. Create the EPG and associate the domain. Set the deployment immediacy to On Demand.
- C. Create a static VLAN pool with the VLAN range of 20-30. Create a physical domain and associate it with the VLAN pool. Create the EPG and associate the domain. Set the deployment immediacy to Immediate.
- D. Create a static VLAN pool with the VLAN range of 20-30.
 Create a VMM domain and associate it with the VLAN pool.
 Create the EPG and associate the domain.
 Set the deployment immediacy to Immediate.

Correct Answer: A Section:

QUESTION 91





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: D Section:

QUESTION 92



Refer to the exhibit. An engineer configured subnets on the external EPG called L3OUT_CORE. The external endpoints in the 10.1.0.0/24 subnet can reach internal endpoints, but the external endpoints in the 172.16.1.0/24 subnet are unreachable. Which set of actions enables the connectivity?

- A. Delete both external EPG subnets. Create the 0.0.0.0/1 subnet.
- B. Delete the external EPG subnet 0.0.0.128/1. Create the 128.0.0.0/1 subnet.
- C. Delete both external EPG subnets.

Create the 0.0.0.0/0 subnet.

D. Delete the external EPG subnet 0.0.0.0/0. Create the 0.0.0.0/128 subnet.

Correct Answer: B Section:

QUESTION 93

An engineer deploys a two-pod Cisco ACI Multi-Pod environment. Why should no more than two Cisco APIC controllers be deployed in the same pod?

- A. to enable equal capacity to scale in each pod
- B. to avoid losing all replicas of a shard if a pod fails
- C. to avoid hair-pinning traffic that is destined for the primary APIC controller between pods
- D. to ensure that all nodes in all pods have local access to a controller

Correct Answer: A Section:

QUESTION 94



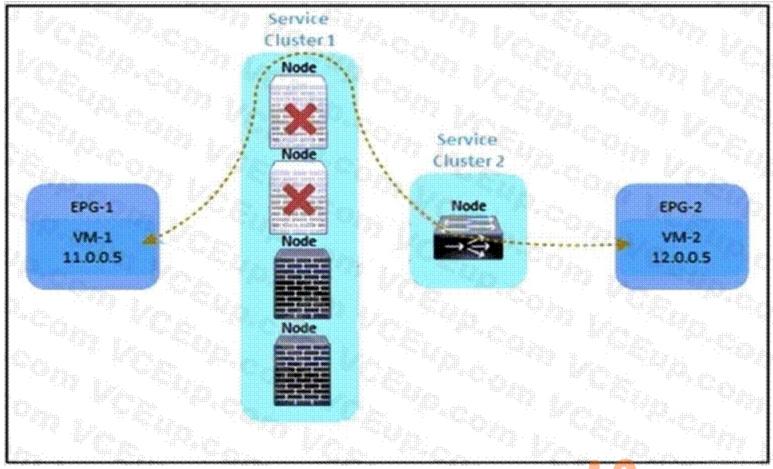
Create Subnet		08
Gateway IP:	10.1.1.1/24 address/mask	
Treat as virtual IP address:		
Make this IP address primary:	140 - My 12- EUR	
Scope:		
	Advertised Externally Shared between VRFs	
Description:	optional	m VCE
Subnet Control:	☐ No Default SVI Gateway ☐ Querier IP	VCEUP.
L3 Out for Route Profile:	select a value	
Davida Brasilar	select a value	
Route Profile:	Sciect a value	

Refer to the exhibit. An engineer configures communication between the EPGs in different tenants. Which action should be taken to create the subnet?

- A. Change Scope to Shared between VRFs.
- B. Leave Scope set to Private to VRF.
- C. Add the L3Out for Route Profile value.
- D. Change Scope to Advertised Externally.

Correct Answer: A Section:

QUESTION 95



Refer to the exhibit. An engineer must divert the traffic between VM-1 and VM-2 by using a Multi-Node service graph. The solution should prevent an insufficient number of available Layer 4 to Layer 7 devices in the first cluster. Which configuration set accomplishes this goal?

- A. PBR node tracking tracking threshold with action bypass symmetric PBR resilient hashing
- B. PBR node tracking tracking threshold with action permit unidirectional PBR resilient hashing
- C. PBR node tracking tracking threshold with action permit symmetric PBR resilient hashing
- D. PBR node tracking tracking threshold with action deny symmetric PBR unidirectional PBR

Correct Answer: D

Section:

QUESTION 96

An engineer must add a group of 70 bare-metal ESXi servers to the Cisco ACI fabric, which is integrated with vCenter. These configuration steps are complete: The configured pool of ESXi hosts is configured with an Attachable Access Entity Profile (AAEP) called AEP VMM.

The new group uses the AAEP called AEP BAREMETAL.

Which action extends functional VMM integration to the new nodes?

- A. Update AAEP to AEP_VMM on all policy groups that are used toward bare-metal servers.
- B. Create a new AAEP container object for policy groups for AEP VMM.
- C. Implement a separate VMM domain for the bare-metal servers by using AEP_VMM.
- D. Add the VMM domain under the AEP BAREMETAL AAEP object.

Correct Answer: D

Section:

QUESTION 97

Which two protocols are used for fabric discovery in ACI? (Choose two.)

- A. LLDP
- B. OSPF
- c. CDP
- D. DHCP
- E. ISIS

Correct Answer: A, D

Section: Explanation:

Reference: https://www.dclessons.com/aci-fabric-discovery

QUESTION 98

What is the purpose of the Overlay Multicast TEP in a Cisco ACI Multi-Site deployment?

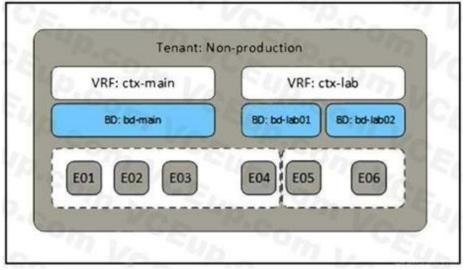
- A. to source and receive unicast VXLAN data plane traffic
- B. to establish MP-BGP EVPN adjacencies with the spine nodes in remote sites
- C. to encapsulate multicast traffic in a common multicast group
- D. to perform head-end replication for BUM traffic

Correct Answer: D

Section:

QUESTION 99

Refer to the exhibit.





Refer to the exhibit. A network engineer must complete the Cisco ACI implementation based on the logical system design created by the systems architect. Which Cisco ACI object is required where the dotted line indicates to complete the task?

- A. contract
- B. application profile
- C. context
- D. attachable Access Entity Profile

Correct Answer: B

Section:

QUESTION 100

When a pre-provision immediacy is used, when is the policy downloaded to the Cisco ACI leaf switch?

- A. The policy is downloaded and programmed in the hardware policy CAM when the change is implemented on the Cisco APIC.
- B. The policy is programmed in the hardware policy CAM when the policy is downloaded in the leaf software.
- C. The policy is programmed in the hardware policy CAM when the first packet is received through the data path.
- D. The policy is downloaded to the associated leaf switch software when the ESXi host is attached to a DVS.

Correct Answer: D

Section:

QUESTION 101

As part of a migration, legacy non-ACI switches must be connected to the Cisco ACI fabric. All non- ACI switches run per-VLAN RSTP. After the non-ACI switches are connected to Cisco ACI, the STP convergence caused a microloop and significant CPU spike on all switches. Which configuration on the interfaces of the external switches that face the Cisco ACI fabric resolves the problem?

- A. BPDU guard
- B. aggressive STP timers
- C. BPDU filtering
- D. STP type link shared

Correct Answer: D

Section:



QUESTION 102

Which two IP address types are available for transport over the ISN when they are configured from Cisco ACI Multi-Site Orchestrator? (Choose two.)

- A. Management IP of APICs
- B. Management IP of the MSO Node
- C. Anycast Overlay Multicast TEP
- D. MP-BGP EVPN Router-ID
- E. Common Pervasive Gateway

Correct Answer: B, D

Section:

QUESTION 103

A network engineer must integrate VMware vCenter cluster with Cisco ACI. The requirement is for the management traffic of the hypervisors and VM controllers to use the virtual switch associated with the Cisco Application Policy. The EPG called "Vmware-MGMT" with VLAN 300 has been created for this purpose. Which set of steps must be taken to complete the configuration?

- A. Associate the target EPG with the VMM domain with default settings. Enable Infrastructure VLAN on AAEP used toward VMware hypervisors.
- B. Enable Infrastructure VLAN on AAEP used toward VMware hypervisors. Associate the target EPG with the VMM domain with default settings.
- C. Enable Infrastructure VLAN on AAEP used toward VMware hypervisors.

Create a static binding in the target EPG toward VMware hypervisors with VLAN 300, untagged access VLAN, and Untagged 802.1P mode.

D. Add VLAN 300 with static allocation to the VLAN POOL that is used for VMM integration.

Attach the VMM domain to the target EPG with resolution preprovision, mode static, untagged access VLAN, and Port-Encap 300.

Correct Answer: D

Section:

QUESTION 104

Refer to the exhibit.

Description: LACP port priority is changed to 32768
Affected Object: topology/pod-1/node-2010/sys/lacp/inst/if-[eth1/6]

Refer to the exhibit. A Cisco ACI fabric displays this fault. Which set of actions modifies the event to be displayed as a warning in the future?

- A. Navigate to the ACI Events tab. Create a new record.
- B. Navigate to the ACI Fault tab. Create a new record.
- C. Navigate to the ACI Events tab. Change the severity level.
- D. Navigate to the ACI Fault tab. Change the severity level.

Correct Answer: C

Section:

QUESTION 105

A bridge domain for a new endpoint group in the Cisco ACI fabric must meet these requirements:

The bridge domain must function as the default gateway for the subnet so that routing remains within the Cisco ACI fabric.

ARP requests must be managed via Layer 3 unicast packets or be dropped to reduce excessive broadcast traffic.

The impact of misconfigured virtual machines must be kept to a minimum by preventing IP addresses outside of the configured subnet from being routed. Which set of actions must be taken?

A. Disable ARP Flooding.

Enable Limit IP Learning to Subnet.

Enable Unicast Routing on the bridge domain and configure a subnet.

B. Enable Limit IP Learning to Subnet.

Enable Unicast Routing on the bridge domain and configure a subnet.

Set Multi-Destination Flooding to Flood in BD.

C. Set Endpoint Retention Policy to default.

Enable ARP Flooding.

Enable Unicast Routing on the bridge domain and configure a subnet.

D. Enable Unicast Routing on the bridge domain and configure a subnet. Set L2 Unknown Unicast to Flood. Disable Endpoint Retention Policy.

Correct Answer: D

Section:

QUESTION 106

An engineer configures a one-armed policy-based redirect service Insertion for an unmanaged firewall. The engineer configures these Cisco ACI objects: a contract named All Traffic Allowed a Layer 4 to Layer 7 device

named FW-Device a policy-based redirect policy named FW-1Arm-Policy-Based RedirectPolicy Which configuration set redirects the traffic to the firewall?

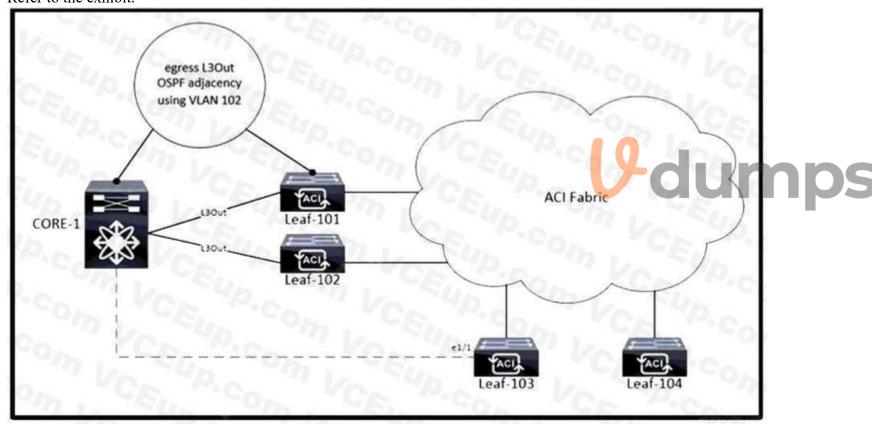
- A. Configure a policy-based redirect subject.

 Associate the policy-based redirect subject with All_Traffic_Allowed.
- B. Configure a firewall bridge domain.
 Associate the bridge domain with FW-Device.
- C. Configure a device interface policy.

 Associate the device interface policy with FW-Device.
- D. Configure a service graph.Associate the service graph with All_Traffic_Allowed.

Correct Answer: D Section:

QUESTION 107Refer to the exhibit.



Refer to the exhibit. The Cisco ACI fabric has an egress L3Out from Leaf-101 and Leaf-102 to CORE-1.

VLAN 102 is used to form the OSPF adjacency. The workloads must be migrated into EPG-101, and the static port binding is configured to Leaf-103 e1/1 with encap VLAN 101. An engineer completes the port binding and receives an MCP fault. Which action clears the fault?

- A. Use VLAN 101 for OSPF adjacency on the egress L3Out.
- B. Use VLAN 102 as the encap VLAN on the EPG-101 static port binding.
- C. Add VLAN 102 to the VLAN pool that is used by the static port binding.
- $\mbox{D.}\ \ \mbox{Prune VLAN 101}$ from the VLAN pool that is used by the egress L3Out.

Correct Answer: B Section:

QUESTION 108

Refer to the exhibit.



Refer to the exhibit. The EPG-100 must be extended to the vCenter as a port group with a tagged VLAN ID of 100. Which set of actions accomplishes this goal?

A. Define a static VLAN range (from 100-200) under a VLAN pool that is associated with the dc1vcdev domain.

Associate the dc1vcdev domain with EPG and select these settings:

Untagged VLAN Access: unselected VLAN Mode: Static with Encap: 100

B. Define a static VLAN range (from 100-200) under a VLAN pool that is associated with the dc1vcdev domain.

Associate the dc2vcdev domain with EPG and select these settings:

Untagged VLAN Access: selected VLAN Mode: Static with Encap: 100

C. Define a dynamic VLAN range (from 100-200) under a VLAN pool that is associated with the del vdev domain.

Associate the dc1vcdev domain with EPG and select these settings:

Untagged VLAN Access: unselected VLAN Mode: Static with Encap: 100

D. Define a dynamic VLAN range (from 100-200) under a VLAN pool that is associated with the dc1vdev domain.

Associate the dc2vcdev domain with EPG and select these settings: Untagged VLAN Access: selected

VLAN Mode: Static with Encap: 100

Correct Answer: D

Section:

QUESTION 109

A customer must deploy three Cisco ACI based data centers. Each site must be separated from the others. Which characteristic of Cisco ACI Multi-Pod makes it unsuitable for this deployment?

- A. creates a virtual pod in the remote location
- B. requires all pods to share the same Cisco APIC cluster
- C. has distance and scale limitations
- D. places leaf switches in the remote site that belong to the same fabric as at the headquarters site

Correct Answer: B

Section:

QUESTION 110

A network engineer must configure a new SNMP configuration and syslog servers. The requirement is for all faults and events related to endpoint groups, bridge domains, and VRFs to be sent to it. Which action must be taken to meet the requirements?

- A. Enable access monitoring policies on the required endpoint groups, bridge domains, and VRFs.
- B. Utilize common tenant monitoring policies in the Cisco APIC.
- C. Configure fabric monitoring policies and attach to the spine switch in the fabric.
- D. Implement fabric-wide monitoring policies on all nodes.



Correct Answer: D

Section:

QUESTION 111

A company must connect three Cisco ACI data centers by using Cisco ACI Multi-Site. An engineer must configure the Inter-Site Network (ISN) between the existing sites. Which two configuration steps must be taken to implement the ISN?

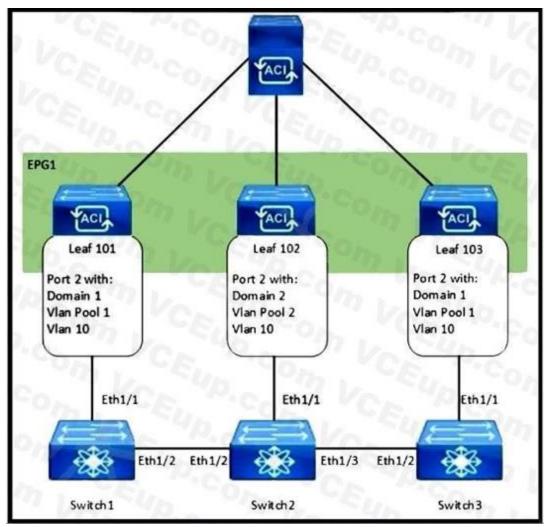
(Choose two.)

- A. Configure OSPF on subinterfaces on routers that are directly connected with spine nodes.
- B. Configure ISN site extension on Cisco routers in the network.
- C. Configure OSPF on all ISN routers.
- D. Configure BIDIR-PIM on all ISN routers.
- E. Configure encapsulation VLAN-4 between the routers and spine nodes.

Correct Answer: B, E

Section:

QUESTION 112



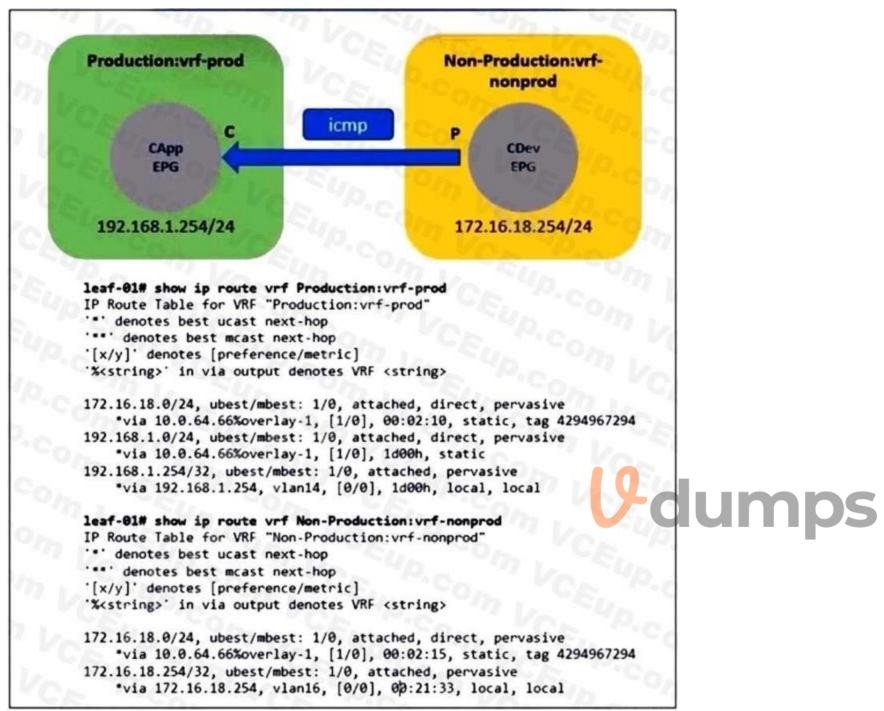


Refer to the exhibit. How are the STP BPDUs forwarded over Cisco ACI fabric?

- A. Cisco ACI acts as the STP root for all three external switches.
- B. STP BPDUs that are generated by Switch2 are received by Switch1 and Switch3
- C. STP BPDUs that are generated by Switch1 are received only by Switch3.
- D. Cisco ACI fabric drops all STP BPDUs that are generated by the external switches.

Correct Answer: B Section:

QUESTION 113



Refer to the exhibit. An administrator configures inter-VRF route leaking between Production:vrfprod and Non-Production:vrf-nonprod. However, the route in the Non-Production:vrf-nonprod VRF to the production tenant is missing. Which action resolves the VRF route leaking issue?

- A. Change the contract scope to Global.
- B. Enable the Shared between VRFs option for the BD subnet in the production VRF.
- C. Enable the Shared between VRFs option for the EPG subnet in the non-production VRF.
- D. Export the contract from provider to consumer tenant.

Correct Answer: B

Section:

QUESTION 114

How is broadcast forwarded in Cisco ACI Multi-Pod after ARP flooding is enabled?

- A. Ingress replication is used on the spines to forward broadcast frames in the IPN infrastructure.
- B. Within a pod, the ingress leaf switch floods the broadcast frame on all fabric ports.
- C. Broadcast frames are forwarded inside the pod and across the IPN using the multicast address that is associated to the bridge domain.
- D. For the specific bridge domain, all spines forward the broadcast frames to IPN routers.

Correct Answer: D

Section:

QUESTION 115

In a Cisco ACI Multi-Site fabric, the Inter-Site BUM Traffic Allow option is enabled in a specific stretched bridge domain. What is used to forward BUM traffic to all endpoints in the same broadcast domain?

- A. ingress replication on the spines in the source site
- B. egress replication on the destination leaf switches
- C. egress replication on the source leaf switches
- D. ingress replication on the spines in the destination site

Correct Answer: C

Section:

QUESTION 116

The engineer notices frequent MAC and IP address moves between different leaf switch ports. Which action prevents this problem from occurring?

- A. Disable enforce subnet check.
- B. Enable endpoint loop protection.
- C. Enable rogue endpoint control.
- D. Disable IP bridge domain enforcement.

Correct Answer: B

Section:

Explanation:

enabling endpoint loop protection can prevent frequent MAC and IP address moves between different leaf switch ports.

QUESTION 117

A customer is deploying a new application across two ACI pods that is sensitive to latency and jitter.

The application sets the DSCP values of packets to AF31 and CS6, respectively. Which configuration changes must be made on the APIC to support the new application and prevent packets from being delayed or dropped between pods?

- A. disable DSCP mapping on the IPN devices
- B. disable DSCP translation policy
- C. align the ACI QoS levels and IPN QoS policies
- D. align the custom QoS policy on the EPG site in the customer tenant

Correct Answer: C

Section:

Explanation:

This will ensure that the Quality of Service (QoS) levels and policies within the ACI fabric and the IPN devices match, preventing packets from being delayed or dropped between pods. Additionally, it is important to align the DSCP values of the packets with the configured QoS levels to ensure that the application's requirements for latency and jitter are met.



QUESTION 118

What controls communication between EPGs?

- A. Inter-EPG communication is controlled by BGP.
- B. Inter-EPG communication is controlled by contracts.
- C. Inter-EPG communication is controlled by IS-IS.
- D. Inter-EPG communication is controlled by VXLAN.

Correct Answer: C

Section:

QUESTION 119

Which feature should be disabled on a bridge domain when a default gateway for endpoints is on an external device instead of a Cisco ACI bridge domain SVI?

- A. unknown unicast flooding
- B. ARP flooding
- C. unicast routing
- D. proxy ARP

Correct Answer: A

Section:

QUESTION 120

Where are STP BPDUSs flooded in Cisco ACI fabric?



- B. in the bridge domain VLAN
- C. in the native VLAN ID
- D. in the VNID that is assigned to the FD VLAN

Correct Answer: B

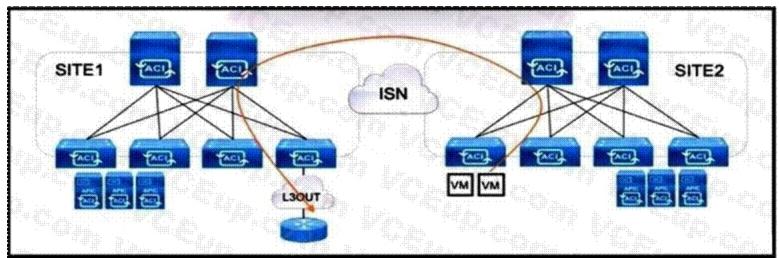
Section:

Explanation:

STP BPDUs are flooded in the bridge domain VLAN in Cisco ACI fabric.

QUESTION 121





Refer to the exhibit. An engineer is configuring a production Multi-Site solution to provide connectivity from EPGs from a specific site to networks reachable through a remote site L3OUT. All required schema and template objects are already defined. Which additional configuration must be implemented in the Multi-Site Orchestrator to support the cross-site connectivity?

- A. Configure a routable TEP pool for SITE1.
- B. Enable CloudSec for intersite traffic encryption.
- C. Add a new stretched external EPG to the existing L3OUT.
- D. Implement a policy-based redirect using a service graph.

Correct Answer: C

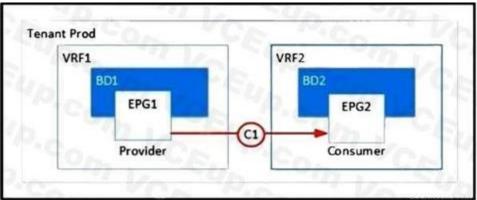
Section:

Explanation:

in order to provide connectivity from EPGs from a specific site to networks reachable through a remote site L3OUT, a new stretched external EPG must be added to the existing L3OUT.

QUESTION 122

Refer to the exhibit.



Which two configurations enable inter-VRF communication? (Choose two.)

- A. Set the subnet scope to Shared Between VRFs.
- B. Enable Advertise Externally under the subnet scope.
- C. Export the contract and import as a contract interface.
- D. Change the contract scope to Tenant.
- E. Change the subject scope to VRF.

Correct Answer: B, C

Section: