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Implementing Cisco Application Centric Infrastructure (DCACI)

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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

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

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

Once the border leaf learns the external routes, it can then redistribute the external routes of a given VRF instance to an MP-BGP address family (VPNv4 or VPNv6). MP-BGP maintains a separate BGP routing table for each VRF instance. Within MP-BGP, the border leaf switch advertises routes to a spine switch, which is a BGP route reflector. The routes are then propagated to all the leaf switches where the VRF instances are instantiated.

Reference:
https://www.cisco.com/c/en/us/td/docs/switches/datacenter/aci/apic/sw/1-x/ACI_Best_Practices/b_ACI_Best_Practices/b_ACI_Best_Practices_chapter_010010.html https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/guide-c07-743150.html

QUESTION 3

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

1.

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

2.

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

3.

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: A

Unicast Routing: If this setting is enabled and a subnet address is configured, the fabric provides the default gateway function and routes the traffic. Enabling unicast routing also instructs the mapping database to learn the endpoint IP-to-VTEP mapping for this bridge domain. The IP learning is not dependent upon having a subnet configured under the bridge domain.

Limit IP Learning To Subnet: Prevents the local IP endpoint from being learned outside the subnets configured on the bridge domain. Prevents mis-learning of IP addresses that may not belong to the fabric.

ARP Flood is off: ARP Request is handled as L3 Unicast

QUESTION 4

A network engineer must optimize a Cisco ACI multi-pod deployment. Both pods are using the same pod policy group. The customer requirement is to avoid inter-pod traffic loss in case of planned or unplanned spine reload. Which action accomplishes this goal?

A. Configure the COOP type as compatible in COOP Group Policy.

B. Configure MACsec in the MACsec Fabric Interface Policy.

C. Configure a lower IS-IS metric for redistributed routes in ISIS Policy.

D. Configure all spines as Route Reflectors in the BGP Route Reflector Policy.

Correct Answer: C

This ensures that when new spine switch is introduced (booting up), or during upgrades/reboot of spine, the spine is not in the forwarding path to external destinations until the full configuration of the spine is completed and the default metric

is changed to the lower metric (recommended to 32, default 63).

(Fabric>Fabric Policies>Policies>POD>ISIS Policy default)

*Traffic loss for Multi-Pod traffic after a Spine reboot (BugID CSCvd75131)

QUESTION 5

An engineer must integrate a Cisco ACI fabric with VMware and discover an ESXi host using LLDP. Two EPGs have been created and associated with the VMM domain. The engineer must configure the ACI such that contracts are pushed to the ACI leaf switches when the VM is mapped to EPG and the contracts are removed when LLDP is disabled.

Which configuration must be selected to meet these requirements?

A. Deployment immediacy: On-Demand

B. Resolution immediacy: On-Demand

C. Deployment immediacy: Immediate

D. Resolution immediacy: Immediate

Correct Answer: B

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