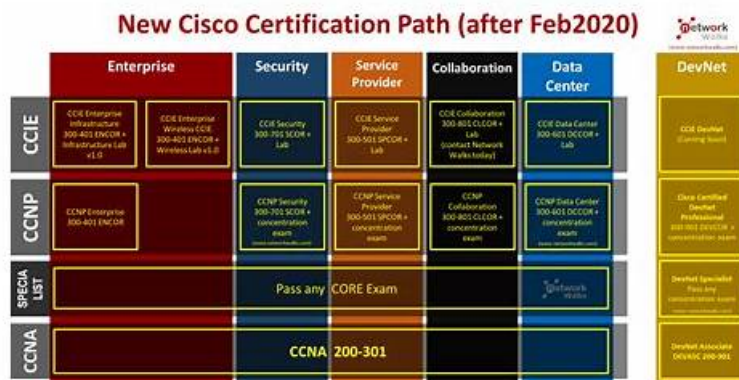


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Cisco 300-620 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: ACI Fabric Infrastructure	20%	- Implement ACI policies • 1. Fabric policies • 2. Access policies - Implement ACI logical constructs • 1. Endpoint groups (EPG) • 2. VRF • 3. Application profile • 4. Bridge domain ◦ Unicast routing ◦ Layer 2 unknown hardware proxy ◦ ARP flooding • 5. Contracts ◦ Filter ◦ Provider / Consumer ◦ Reverse port filter ◦ VRF enforced • 6. Tenant - Describe ACI fabric discovery - Describe ACI topology and hardware - Describe ACI Object Model - Utilize faults, event record, and audit log

Topic 2: ACI Packet Forwarding	15%	- Describe endpoint learning - Implement bridge domain configuration • 1. ARP flooding • 2. Unicast routing • 3. Layer 2 unknown hardware proxy
Topic 3: External Network Connectivity	20%	- Implement Layer 2 out • 1. STP/MCP basics - Implement Layer 3 out • 1. Excludes transit routing and VRF route leaking
Topic 4: Integrations	15%	- Implement service graph • 1. Managed mode • 2. Unmanaged mode - Implement VMware vCenter DVS integration - Describe resolution immediacy in VMM
Topic 5: ACI Management	20%	- Utilize syslog and SNMP services - Configure software upgrade - Implement AAA and RBAC - Implement configuration backup • 1. Config import/export • 2. Snapshot - Implement out-of-band and in-band management
Topic 6: ACI Anywhere	10%	- Describe multisite architecture - Describe multipod architecture

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Cisco Implementing Cisco Application Centric Infrastructure Sample Questions (Q239-Q244):

NEW QUESTION # 239

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 B
- B. Option C
- C. Option A

Answer: A

Explanation:

To configure a Cisco ACI system to detect network loops for both untagged and tagged traffic and to stop the loop by disabling an interface within 4 seconds, the following configuration must be used:

Enable Mis-Cabling Protocol (MCP): MCP detects loops from external sources and will err-disable the interface on which Cisco ACI receives its own packet. This is crucial for preventing loops in the network¹.

Configure MCP Transmit Frequency: Set the MCP transmit frequency to a value that allows for quick loop detection. The Cisco ACI fabric provides faster loop detection with transmit frequencies from 100 milliseconds to 300 seconds. To meet the requirement of detecting and stopping a loop within 4 seconds, you would set the transmit frequency to a value less than 4 seconds².

Set Action on Loop Detection: Configure the MCP policies to identify loops and decide how to act upon them. You can set the policy to generate a syslog message or disable the port upon loop detection².

Implement Error Disabled Recovery Policy: Configure an error disabled recovery policy to automatically re-enable ports that were disabled due to loop detection after a configurable interval².

By implementing these configurations, the Cisco ACI system will be able to detect and stop network loops quickly and efficiently, ensuring network stability and preventing potential disruptions.

Reference:

Cisco APIC Online Help - Loop Detection²

Cisco ACI Best Practices Quick Summary

NEW QUESTION # 240

An engineer must configure a Layer 3 connection to the WAN router. The hosts in production VRF must access WAN subnets. The engineer associates EPGs in the production VRF with the external routed domain. Which action completes the task?

- A. Configure the Shared Route Control Subnet scope for the external EPG.
- B. Configure the Export Route Control Subnet scope for the external EPG.
- C. Configure the External Subnets for the External EPG scope for the external EPG.
- D. Configure the Import Route Control Subnet scope for the external EPG.

Answer: B

Explanation:

To complete the task of configuring a Layer 3 connection to the WAN router and allowing hosts in the production VRF to access WAN subnets, the engineer should configure the Export Route Control Subnet scope for the external EPG. This setting allows the subnets associated with the external EPG to be advertised to external routers, enabling connectivity to the WAN.

NEW QUESTION # 241

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
lo1023	10.233.44.32/32	protocol-up/link-up/admin-up

LEAF101# show vlan extended

VLAN	Name	Encap	Ports
8	infra:default	vxlان-41174821,	Eth1/1, Eth1/2, Eth1/47 vlan-3600

Which ACI fabric address is assigned to interface lo1023?

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

Answer: C

Explanation:

In addition to loopback 0 interfaces, ACI creates loopback 1023 interfaces on all leaf switches.

A loopback 1023 interface is used for assignment of a single fabricwide pervasive IP address called a fabric tunnel endpoint (FTEP) address.

The FTEP address represents the entire fabric and is used to encapsulate traffic in VXLAN to an AVS or AVE virtual switch, if present.

NEW QUESTION # 242

Refer to the exhibit. A Cisco APIC raises an error when the EPG must accept endpoints from a VMM domain created. Which action clears the fault?

Fault Code: F3222
Severity: warning
Last Transition: 2021-02-08T22:08:45.469+00:00
Lifecycle: Raised
Affected Object: **id/subj-DefaultS/ns-cnat-west-vmv-vlp**
Description: Fault delegate: Resource Pool has been used till the threshold
Type: Operational
Cause: resource-pool-consumed
Change Set: usageStatus (Old: green, New: red)
Created: 2021-02-08T21:59:45.876+00:00
Code: F3222
Number of Occurrences: 2
Original Severity: warning
Previous Severity: cleared
Highest Severity: warning



- A. Create a bridge domain for the VMM domain.
- B. Associate the EPG with the VMM domain.
- C. Associate the VLAN pool with the VMM domain.
- **D. Expand the VLAN pool for the VMM domain.**

Answer: D

NEW QUESTION # 243

An engineer must connect Cisco ACI fabric using Layer 2 with external third-party switches. The third-party switches are configured using 802.1s protocol. Which two constructs are required to complete the task?
(Choose two.)

- A. static binding of native VLAN in all existing EPGs
- B. MCP instance policy with administrative slate disabled
- **C. spanning tree policy for mapping MST Instances to VLANs**
- D. MCP policy with PDU per VLAN enabled
- **E. dedicated EPG for native VLAN**

Answer: C,E

Explanation:

<https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2019/pdf/BRKACI-3101.pdf>

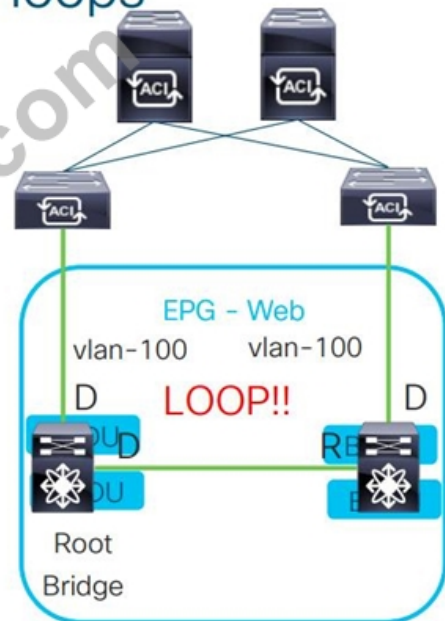
<https://www.cisco.com/c/en/us/solutions/collateral/data-center-virtualization/application-centric-infrastructure/white-paper-c07-732033.html>

Common mistakes that cause loops

Missing untagged/native EPG in MST region

MST BPDUs are sent untagged by switches and will only be accepted by leaf if an EPG is deployed with an untagged/native EPG path binding.

All interfaces connected to a common MST region should have the same EPG deployed (this is to ensure BPDU is flooded to all of the MST switches connected to fabric).

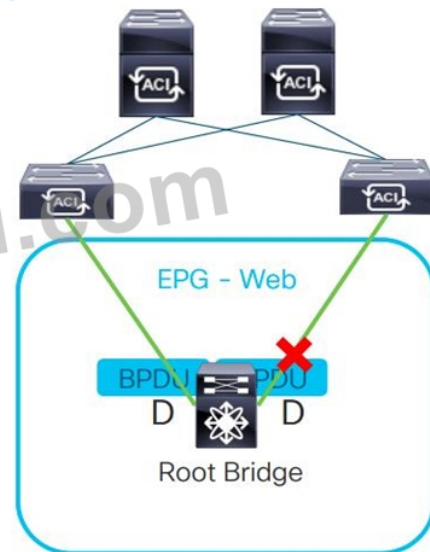


Spanning Tree

ACI floods BPDUs in the fabric encap

- ACI leaves don't participate in spanning tree (generate BPDUs or block any ports)
- STP BPDUs (PVST or MST) are flooded within the fabric/EPG encap (allocated per vlan encap in a domain)
- Leaves flush endpoints in the EPG if a TC BPDU is received.
 - Spanning Tree Domain policy determines which EPGs to flush for MST domain TCs

NOTE: MST BPDUs are untagged and require an untagged/native EPG to be deployed on all interfaces connected to MST domain (this includes L3outs using SVIs)



With PVST and RPVST, the VLAN tag in the BPDU TCN frame indicates the VLAN that had a topology change. The APIC flushes the MAC addresses for the EPG that maps to the outside VLAN. With MST, the BPDU frame only indicates the instance ID that had the topology change. In order for the APIC to identify the EPGs for which the MAC entries need to be flushed, the user needs to configure a policy to **create an STP instance to VLAN mapping on the APIC.**

There are three major steps to follow in order to create the STP instance to VLAN mapping on the APIC. First, create a spanning tree policy under menu Fabric→Access Policies→Switch Policies→Policies→Spanning Tree. There is a policy named "default" created already. Under this policy, configure the MST region name, create an instance to VLAN mapping, and make sure they match with the MST configuration on the outside network. In the example in Figure 66, there are two instances: instance one has VLAN 10 to 20, and instance two has VLAN 21 to 30 (not shown in the Figure 73 screen capture).

NEW QUESTION # 244

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