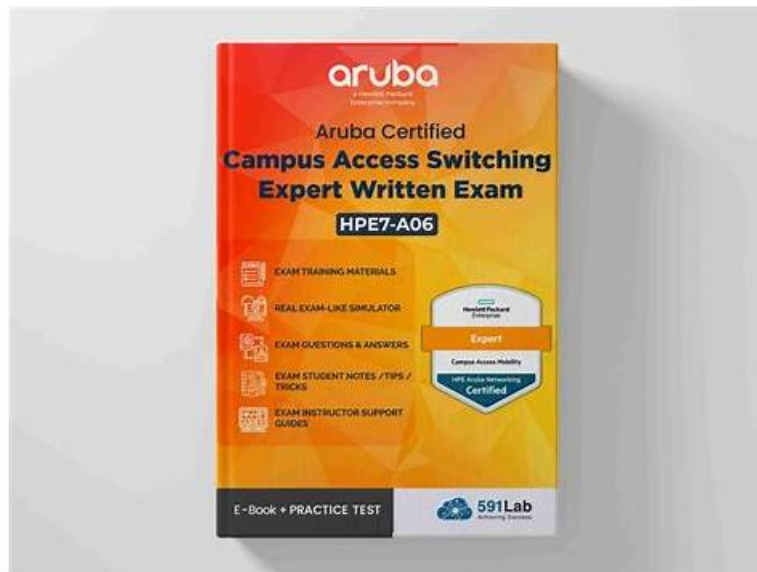


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## HPE Campus Access Switching Expert Written Exam Sample Questions (Q24-Q29):

### NEW QUESTION # 24

You are configuring VSX active gateway on CX 8360 campus aggregation switches when the switch prompt returns the following error: "No more than 16 VMACs can be configured." What should be done to address this issue?

- A. Change the aggregation switch to a higher-end model, such as a CX 8400.
- B. Limit the number of SVIs with active-gateway to 16.
- C. As MAC addresses are link-local, use the same VMAC across SVIs.
- D. Change the switch profile to "Leal" to increase the number of supported vMACs.

**Answer: C**

Explanation:

The error "No more than 16 vMACs can be configured" occurs when trying to configure active-gateway on multiple SVIs on a CX 8360 VSX pair. This indicates a platform limit on the number of unique virtual MAC addresses has been reached.

\* Active Gateway vMACs: Each SVI configured with Active Gateway requires a virtual MAC address (vMAC). While AOS-CX can auto-generate these, doing so consumes entries from a limited hardware pool (e.g., 16 on this platform/version).

\* Best Practice & Solution: The recommended best practice to conserve these limited vMAC resources is to manually specify and reuse the same virtual MAC address across all SVIs configured with Active Gateway on that specific VSX pair. Since MAC addresses are Layer 2 local, using the same vMAC on different SVIs (different L3 subnets) does not cause conflicts within the VSX pair's operation.

\* Analysis of Options:

\* A: Limiting the number of SVIs using Active Gateway is a workaround, not a solution.

\* B: Changing switch profiles doesn't typically alter hardware vMAC limits.

\* C: Changing to a higher-end switch model might increase limits but is not the first or standard solution.

\* D: Reusing the same vMAC across SVIs (active-gateway ip <vip> mac <SAME\_VMAC>) avoids consuming a new vMAC entry for each SVI, thus staying within the platform limit. This is the standard, recommended solution.

\* Conclusion: The correct approach to address the vMAC limit error is to explicitly configure the same virtual MAC address for all SVIs using the Active Gateway feature on the VSX pair.

References: AOS-CX VSX Guide (Active Gateway Configuration, Best Practices, vMAC considerations).

This relates to "Network Resiliency and virtualization" (8%) and "Routing" (16%).

## NEW QUESTION # 25

A pair of CX 8325 series switches is configured in a VSX cluster. Which function is executed on both VSX members during normal operation?

- A. relays DHCP requests or serves DHCP offer
- B. routes PIM and PIM-DR
- C. periodically sends gratuitous ARP and broadcast hello packets
- **D. replies to ARP requests with the cluster vMAC**

**Answer: D**

Explanation:

The question asks which function is executed on both VSX members (CX 8325 switches) during normal operation in a VSX cluster.

\* Analysis of Options:

\* Option A: Correct. Both VSX switches reply to ARP requests with the cluster's virtual MAC (vMAC) for SVIs configured with active-gateway, ensuring consistent Layer 3 forwarding.

\* Option B: Incorrect. PIM (Protocol Independent Multicast) and PIM-DR roles are typically handled by one switch, not both, in a VSX cluster.

\* Option C: Incorrect. DHCP relay or server functions are not necessarily performed by both switches simultaneously.

\* Option D: Incorrect. Gratuitous ARP and broadcast hello packets are typically sent by the primary switch or specific protocols, not both VSX members for all cases.

\* Why Option A is Correct: In a VSX cluster, the active-gateway feature allows both switches to respond to ARP requests for Switched Virtual Interfaces (SVIs) using a shared virtual MAC address (vMAC). This ensures seamless Layer 3 forwarding and high availability, as clients receive consistent ARP replies regardless of which VSX switch processes the request. The vsx-sync feature ensures the vMAC is synchronized, enabling both switches to perform this function during normal operation, as per HPE Aruba Networking's VSX architecture.

\* Relevance to Certification Objectives:

\* Network Resiliency and Virtualization (8%): Designing and troubleshooting VSX for redundancy and active-active forwarding.

\* Switching (19%): Implementing Layer 2/3 technologies, including ARP handling in VSX.

\* Routing (16%): Ensuring consistent Layer 3 operations in VSX environments.

References:

HPE Aruba Networking AOS-CX Configuration Guide: VSX Configuration, detailing active-gateway and vMAC usage.

HPE7-A06 Study Guide: Covers VSX Layer 3 functions and ARP handling.

HPE Aruba Networking Technical Documentation: VSX Active-Gateway Best Practices.

## NEW QUESTION # 26

During troubleshooting, an engineer finds excessive ARP requests in the network. Which setting could mitigate this issue?

- A. Configuring proxy ARP
- B. Increasing ARP cache size
- C. Enabling DHCP Snooping
- D. Adjusting MAC aging timers

Answer: C

#### NEW QUESTION # 27

A customer is trialing the below colorless port configuration on a single switch and has noticed that users roaming to access points connected to the test switch are unable to receive an IP address on the corporate Wi-Fi network, which is operating in bridged mode. All other SSIDs are working as expected and the AP is Online in HPE Aruba Networking Central.

The security team reports that there have been no failed authentications in HPE Aruba Networking ClearPass Access Tracker and that the last entry for the wired port is returning the RADIUS Aruba-User-Role attribute 'Access\_Point'.

Which configuration change is required to resolve the issue?

```
interface 1/1/1-1/1/48
  no shutdown
  description COLORLESS
  vlan access 999 1
  aaa authentication port-access preauth-role PROFILING
  aaa authentication port-access reject-role DENYALL
  aaa authentication port-access dot1x authenticator
    enable
  aaa authentication port-access mac-auth
    enable

  port-access role Corporate_Wired_User
    vlan access name CORPORATE

  port-access role Printer
    vlan access name PRINTERS

  port-access role Access_Point
    vlan trunk native name MANAGEMENT
    vlan trunk allowed name MANAGEMENT
    vlan trunk allowed name CORPORATE
```

port-access client-move enable

- A. auth-mode device-mode  
interface 1/1/1-1/1/48
- B. aaa authentication port-access client-limit 0
- C. port-access onboarding-method concurrent enable  
interface 1/1/1-1/1/48
- D. port-access role Access\_Point

Answer: A

Explanation:

For AP uplinks carrying bridged SSIDs, the switchport must authenticate only the AP and then treat all client MACs as part of the same trusted device. Enabling auth-mode device-mode under the Access\_Point port-access role ensures the AP is authenticated (MAC-auth), the trunk is applied, and the switch does not attempt to re-authenticate wireless client MACs - allowing clients on the corporate SSID to obtain IP addresses.

### NEW QUESTION # 28

#### Drag and Drop Question

Identify the required configuration steps to enable DHCP Endpoint Profiling with HPE Aruba Networking ClearPass. (Not all will be used)

	Answer Area
Create a pre-authentication role and associate a VLAN.	FIRST
Associate a policy to the role above allowing only UDP port 67.	SECOND
Associate a policy to the role above allowing only UDP port 68.	THIRD
Configure the pre-authentication role on the client-facing interface.	LAST
Configure ClearPass as an additional IP helper for the profiling VLAN SVI.	
Configure ClearPass as an additional IP helper for the client VLAN SVI.	

**Answer:**

**Explanation:**

	Answer Area
	FIRST
	SECOND
Configure the pre-authentication role on the client-facing interface.	THIRD
Configure ClearPass as an additional IP helper for the client VLAN SVI.	LAST

### NEW QUESTION # 29

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