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Quiz 2025 Fantastic HPE7-A06: HPE Campus Access Switching Expert Written Exam Practice Exams

Another significant challenge of undertaking a HP HPE7-A06 exam is defining clear goals. Many students get bogged down by the volume of material they need to learn and lose sight of their goals. Thus, our HP HPE7-A06 Real Exam Questions in three formats provide you with the clear cut HPE7-A06 preparation materials and defined goals to comprehensively prepare in the shortest possible time.

HPE Campus Access Switching Expert Written Exam Sample Questions (Q17-Q22):

NEW QUESTION # 17

Match each BGP element to its description.

keepalive	notification	open
route refresh	update	

Answer Area

advertises, updates, or withdraws routes	
ensures that BGP peers are still alive	
indicates error condition to a BGP neighbor	
request a BGP peer to resend updated messages	
sets up and establishes BGP adjacency	

Answer:

Explanation:

keepalive notification open
route refresh update

Answer Area

advertises, updates, or withdraws routes

ensures that BGP peers are still alive

indicates error condition to a BGP neighbor

request a BGP peer to resend updated messages

sets up and establishes BGP adjacency

update
keepalive
notification
route refresh
open

Explanation:

advertises, updates, or withdraws routes

ensures that BGP peers are still alive

indicates error condition to a BGP neighbor

request a BGP peer to resend updated messages

sets up and establishes BGP adjacency

update
keepalive
notification
route refresh
open

This question requires matching BGP protocol elements (mostly message types) to their primary function or description.

* OPEN Message: This is the first message sent after the TCP connection is established between BGP peers. Routers exchange OPEN messages to negotiate session parameters (AS Number, Hold Time, Router ID, Capabilities). A successful exchange leads to session establishment.

* Matches: "sets up and establishes BGP adjacency"

* UPDATE Message: This message is used to communicate network reachability information (NLRI). It carries prefixes that are being advertised, path attributes associated with those prefixes, and/or prefixes that are being withdrawn.

* Matches: "advertises, updates, or withdraws routes"

* KEEPALIVE Message: These messages are sent periodically between BGP peers within the agreed-upon Hold Time interval. Their primary purpose is to confirm that the peer is still alive and the session is active, especially when there are no UPDATE messages to send.

* Matches: "ensures that BGP peers are still alive"

* NOTIFICATION Message: This message is sent when a BGP error condition is detected (e.g., malformed message, unacceptable parameters in an OPEN message, hold timer expiry). Sending or receiving a NOTIFICATION message immediately causes the BGP session to terminate.

* Matches: "indicates error condition to a BGP neighbor"

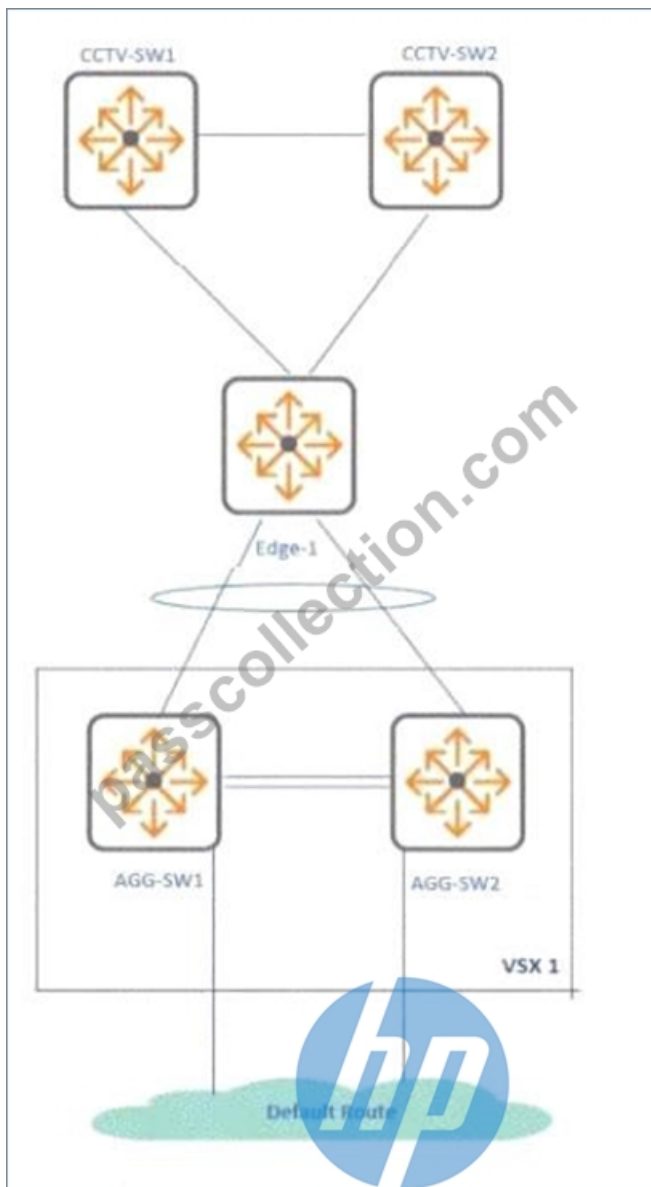
* Route Refresh: This is a BGP capability (defined in RFC 2918) that allows a BGP speaker to request its peer to resend its routing updates for a specific address family, typically used after a policy change without requiring a full BGP session reset.

* Matches: "request a BGP peer to resend updated messages"

References: RFC 4271 (BGP4 Specification - Section 4, Messages), RFC 2918 (BGP Route Refresh Capability). This relates to the "Routing" (16%) objective.

NEW QUESTION # 18

Exhibit.



VSX cluster is already configured. Your task is to validate a correct configuration for the Edge-1 switch that is connected to a CCTV provider that will install its switching infrastructure. The CCTV switches do not support STP.

What needs to be configured on the Edge-1 switch ports connecting to CCTV-SW1 and CCTV-SW2 to prevent loop problems with the existing setup with automatic recovery features?

- A. configure spanning-tree and TCN-guard timeout for CCTV switch ports
- **B. configure spanning-tree with bpduguard timeout values for CCTV switch ports**
- C. configure lag with lacp fallback for CCTV switch ports
- D. configure spanning-tree with udd for CCTV switch ports

Answer: B

Explanation:

The requirement is to prevent loops on Edge-1 switch ports connected to third-party CCTV switches that do not support STP. The solution must also include an automatic recovery feature if a port gets disabled.

* Loop Prevention without STP: When connecting to non-STP devices, standard STP loop prevention (like BPDU Guard) might not work if the connected device doesn't send BPDUs. AOS-CX offers a feature called loop-protect which sends probes to detect loops in non-STP environments.

* Automatic Recovery: Features that disable ports (like BPDU Guard or Loop Protect) often have a timeout or auto-recovery option (port-disable-timer for Loop Protect) allowing the port to automatically re-enable after a configured period.

* Analysis of Options:

* A: LACP fallback applies to LAGs, not general loop prevention.

* B: TCN-guard is an STP feature, irrelevant here.

* C: Suggests spanning-tree with bpduguard timeout. BPDU Guard detects loops by listening for BPDUs, which these CCTV

switches don't send. However, the timeout feature does provide the required automatic recovery mechanism if the port were disabled by BPDU Guard.

* D: UDLD detects unidirectional links, not typically bridging loops caused by topology.

* Re-evaluation: The ideal AOS-CX feature is loop-protect with port-disable-timer. Since this isn't explicitly an option, we must evaluate the given choices. Option C is the only one that mentions a mechanism (bpdu-guard timeout) providing automatic recovery from a disabled state. While BPDU Guard isn't the right detection mechanism here, it's the closest fit regarding the auto-recovery requirement. It's possible the question implicitly assumes some stray BPDUs might trigger it or that it's the intended "best fit" answer despite the detection mechanism mismatch.

* Conclusion: Given the options, Option C is the most plausible because it includes the timeout feature associated with bpdu-guard, fulfilling the automatic recovery requirement, even though BPDU guard itself is not the ideal detection method for loops involving non-STP devices.

References: AOS-CX Spanning Tree Protocol Guide (BPDU Guard, Timeout), AOS-CX Interface Configuration Guide (loop-protect feature). This relates to "Switching" (19%) and "Network Resiliency and virtualization" (8%) objectives.

NEW QUESTION # 19

When using the cable diagnostic feature on an AOS-CX switch to test a 1000BaseT connection, what is the accuracy of 'distance to fault'?

- A. +/- 10m
- **B. +/- 1m**
- C. +/- 2m
- D. +/- 6m

Answer: B

Explanation:

The question asks about the accuracy of the 'distance to fault' measurement provided by the cable diagnostic feature (using Time Domain Reflectometry - TDR) on an AOS-CX switch for a 1000BaseT connection.

* TDR Accuracy: TDR works by sending a signal down the cable and measuring the time it takes for reflections to return, which indicates faults like opens or shorts. The accuracy depends on the quality of the TDR circuitry, the calibration, and the cable characteristics. Network equipment vendors typically specify the expected accuracy.

* AOS-CX Specification: According to HPE Aruba Networking documentation for AOS-CX switches, the accuracy of the TDR-based cable diagnostics for distance to fault on copper cabling is typically specified as +/- 1 meter.

* Analysis of Options:

* A: +/- 10m - Too inaccurate.

* B: +/- 2m - Less accurate than specified.

* C: +/- 6m - Too inaccurate.

* D: +/- 1m - Matches the documented accuracy for AOS-CX TDR.

References: AOS-CX Fundamentals Guide, AOS-CX CLI Reference Guide (under diag cable-diagnostic command description or general troubleshooting sections). This relates to the "Troubleshooting" (10%) objective.

NEW QUESTION # 20

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 KADIUS Aruba-User-Host attribute 'Access_Point'.

Which configuration change is required to resolve the issue?

```

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

```

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

Answer: D

Explanation:

The issue involves users roaming to APs connected to a test switch failing to receive an IP address on the corporate Wi-Fi network (bridged mode), with ClearPass reporting a RADIUS Aruba-User-Role attribute of Access_Point. The goal is to identify the configuration change needed to resolve this issue.

* Analysis of Options:

* Option A (port-access client-move enable): Enables client movement between ports but does not address the AP authentication issue.

* Option B (aaa authentication port-access client-limit 0): Correct. Setting the client limit to 0 on the switch ports (1/1/1-1/1/48) disables MAC authentication for APs, allowing them to be treated as trusted devices and preventing the application of an incorrect role.

* Option C (port-access onboarding-method concurrent enable): Enables concurrent onboarding but is unrelated to the AP role issue.

* Option D (port-access role Access_point auth-mode device-mode): Configures a device mode role but does not resolve the IP assignment issue caused by incorrect authentication.

* Why Option B is Correct: The issue arises because the switch is applying 802.1X or MAC authentication to the AP ports, resulting in ClearPass assigning the Access_Point role, which restricts client connectivity. By setting aaa authentication port-access client-limit 0 on the AP-connected ports (1

/1/1-1/1/48), the switch disables port-access authentication for these ports, treating the APs as trusted devices. This allows clients to authenticate properly via the AP and receive IP addresses in bridged mode, resolving the issue.

* Relevance to Certification Objectives:

* WLAN (9%): Involves troubleshooting wireless functions and Layer 2 issues related to AP connectivity.

* Authentication/Authorization (9%): Includes troubleshooting ClearPass integration and 802.1X configurations.

* Security (10%): Covers troubleshooting wired 802.1X implementations.

References:

HPE Aruba Networking AOS-CX Configuration Guide: Port Access Authentication, detailing client-limit configuration.

HPE7-A06 Study Guide: Covers ClearPass integration and AP authentication troubleshooting.

HPE Aruba Networking Technical Documentation: Dynamic Segmentation and Port Access Security.

NEW QUESTION # 21

Match the customer requirement with the relevant commands.

Aggregate links across multiple switches.	Establish redundant links between the aggregation and core layers.
Extend layer 2 across multiple sites.	Identify individual layer 2 segments in an overlay.

Answer Area

```

interface vxlan 1
no shutdown
source ip 10.1.0.4

router ospf 1
maximum-paths 2

vni 11
vtep-peer 10.1.0.5
vlan 11

vsx
role primary
inter-switch-link lag 256
keepalive peer 192.168.0.1 source
192.168.0.0 vrf KA

```

Answer:

Explanation:

Aggregate links across multiple switches.

Establish redundant links between the aggregation and core layers.

Extend layer 2 across multiple sites.

Identify individual layer 2 segments in an overlay.

```

interface vxlan 1
no shutdown
source ip 10.1.0.4

```

```

router ospf 1
maximum-paths 2

```

```

vni 11
vtep-peer 10.1.0.5
vlan 11

```

```

vsx
role primary
inter-switch-link lag 256
keepalive peer 192.168.0.1 source

```

Extend layer 2 across multiple sites.

Establish redundant links between the aggregation and core layers.

Identify individual layer 2 segments in an overlay.

Aggregate links across multiple switches.

Explanation:

* Aggregate links across multiple switches -->

vsx

role primary

inter-switch-link lag 256

keepalive peer 192.168.0.1 source 192.168.0.0 vrf KA

(Snippet 4)

* Establish redundant links between the aggregation and core layers --> router ospf 1 maximum-paths 2 (Snippet 2)

* Extend layer 2 across multiple sites -->

interface vxlan 1

no shutdown

source ip 10.1.0.4

(Snippet 1)

* Identify individual layer 2 segments in an overlay -->

vni 11

vtep-peer 10.1.0.5

vlan 11

(Snippet 3)

Comprehensive Detailed Explanation along with All References available from related to the HPE Campus Access Switching Expert certification objectives at end of each question below:

* Aggregate links across multiple switches: This requirement describes Multi-Chassis Link Aggregation (MC-LAG), where a device forms a LAG to two separate upstream switches that act as a logical pair. In AOS-CX, VSX (Virtual Switching Extension) enables this functionality. Snippet 4 shows commands related to setting up VSX (vsx, role primary, inter-switch-link, keepalive), which is the foundation for MC-LAG.

References: AOS-CX VSX Guide. Relates to "Network Resiliency and virtualization" (8%), "Switching" (19%).

Establish redundant links between the aggregation and core layers: This often involves Layer 3 routing protocols utilizing multiple paths. Snippet 2 (router ospf 1, maximum-paths 2) configures OSPF to use up to two Equal Cost Multi-Paths (ECMP). If redundant links between aggregation and core result in equal OSPF costs, this command enables load sharing and redundancy at Layer 3.

References: AOS-CX IP Routing Guide (OSPF, ECMP). Relates to "Routing" (16%), "Network Resiliency and virtualization" (8%).

Extend layer 2 across multiple sites: VXLAN (Virtual Extensible LAN) is the standard overlay technology for extending Layer 2 segments over an underlying Layer 3 network, enabling L2 adjacency across different physical locations (sites, racks, pods). Snippet 1 shows the basic configuration of a VXLAN tunnel interface (interface vxlan 1, source ip), which is the core component for VXLAN tunneling.

References: AOS-CX VXLAN Guide. Relates to "Switching" (19%), "Connectivity" (9%).

Identify individual layer 2 segments in an overlay: Within a VXLAN overlay, each separate Layer 2 broadcast domain (typically corresponding to a VLAN) is identified by a unique VXLAN Network Identifier (VNI). This VNI tags the encapsulated traffic.

Snippet 3 shows the configuration associating VNI 11 with the local VLAN 11 (vni 11, vlan 11). The vtep-peer command is relevant when using EVPN as the control plane.

This configuration directly maps an L2 segment (VLAN 11) to its identifier (VNI 11) within the overlay.

References: AOS-CX EVPN Guide, AOS-CX VXLAN Guide. Relates to "Switching" (19%), "Connectivity" (9%).

NEW QUESTION # 22

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