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HP HPE7-A06 Campus Access Switching Expert

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HPE Campus Access Switching Expert Written Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

Match the customer requirement with the relevant commands.

Aggregate links across multiple switches.	Establish redundant links between the aggregation and core layers.	Answer Area
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 192.168.0.0 vrf KA

Answer:

Explanation:

Aggregate links across multiple switches.	Establish redundant links between the aggregation and core layers.	Answer Area
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 192.168.0.0 vrf KA

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 # 37

You see the output unknown the first time you in the command, but the next time you see the following information displayed.

Cable Impedance	Status (Ohms)	Description
good	85-115	No cable faults found
open	>115	Open circuit detected
intra-short	<85	Short-circuit within the same wire pair
inter-short	<85	Short-circuit with another wire pair
high-imp	>115	Cable impedance was higher than expected
low-imp	<85	Cable impedance was lower than expected
unknown	--	Cable test was inconclusive

What are some things you could do at the switch to troubleshoot the issue? (Select two.)

- A. diag cable-diagnostic 1/1/X
- B. diag 1/1/X transceiver all
- C. diag cable 1/1/X
- D. diag interface 1/VX transceiver all
- E. diag interface transceiver al

Answer: A,B

Explanation:

The question involves troubleshooting an issue where the command output is initially unknown, but subsequent executions show diagnostic information for an interface (1/1/X). The task is to identify appropriate diagnostic commands to troubleshoot the issue.

* Analysis of Options:

- * Option A (diag interface transceiver al): Incorrect syntax; "al" is not a valid parameter.
- * Option B (diag interface 1/VX transceiver all): Incorrect syntax; "1/VX" is not a valid interface format.
- * Option C (diag cable-diagnostic 1/1/X): Correct. This command runs a cable diagnostic test (TDR) on interface 1/1/X to check for cable faults, such as opens or shorts.
- * Option D (diag cable 1/1/X): Incorrect; "diag cable" is not a valid AOS-CX command.
- * Option E (diag 1/1/X transceiver all): Correct. This command displays detailed transceiver information, including status, errors, and signal quality, useful for diagnosing interface issues.

* Why C and E are Correct: The diag cable-diagnostic 1/1/X command is used to perform TDR tests to identify cable faults, which could cause connectivity issues. The diag 1/1/X transceiver all command provides detailed transceiver diagnostics, such as power levels, errors, or hardware issues, helping pinpoint problems with the interface or connected device. These commands align with AOS-CX troubleshooting workflows for physical layer issues.

* Relevance to Certification Objectives:

* Troubleshooting (10%): Involves using diagnostic commands to troubleshoot campus network issues.

* Connectivity (9%): Includes identifying problem areas in device deployment, such as cabling or transceiver issues.

References:

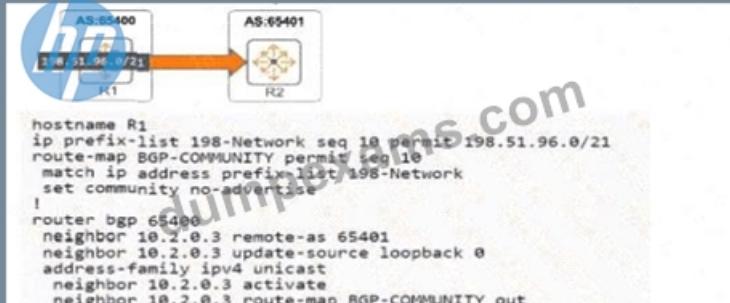
HPE Aruba Networking AOS-CX Configuration Guide: Diagnostic Commands, covering cable diagnostics and transceiver diagnostics.

HPE7-A06 Study Guide: Details troubleshooting tools for AOS-CX switches.

HPE Aruba Networking Technical Documentation: AOS-CX Troubleshooting, explaining diagnostic command usage.

NEW QUESTION # 38

Refer to the exhibit and cede sample.



```
hostname R1
ip prefix-list 198-Network seq 10 permit 198.51.96.0/21
route-map BGP-COMMUNITY permit seq 10
  match ip address prefix-list 198-Network
  set community no-advertise
!
router bgp 65400
  neighbor 10.2.0.3 remote-as 65401
  neighbor 10.2.0.3 update-source loopback 0
  address-family ipv4 unicast
    neighbor 10.2.0.3 activate
    neighbor 10.2.0.3 route-map BGP-COMMUNITY out
```

What is the effect when you add the statement "neighbor 10.2.0.3 send-community both" to the ipv4 address family? (Select two.)

- A. It causes R1 to negotiate for the ability to import and export all type-1 and type-2 communities with R2.
- B. It causes R1 to allow the exchange of communities with NLRI records in both inbound and outbound direction
- C. The feature will be enabled without consequence to the R1 established session with R2.
- D. It will cause existing BGP peering between R1 and R2 to flap.**
- E. It causes R1 to negotiate the ability to send and receive standard and extended communities with R2.**

Answer: D,E

Explanation:

The question asks for the effects of adding the command neighbor 10.2.0.3 send-community both to the BGP configuration under the IPv4 address family context for neighbor R2 (10.2.0.3) on router R1.

* send-community both: This command instructs R1 to send both standard (RFC 1997) and extended (RFC 4360) BGP community attributes to neighbor R2. By default, communities are not sent.

* BGP Capability Negotiation: Adding or changing features like community advertisement modifies the BGP capabilities exchanged between neighbors during session establishment. Any change to these capabilities requires the BGP session to be reset (flap) so that the peers can renegotiate using the new capabilities.

* Analysis of Options (Select Two):

* A: Correct (partially). It enables R1 to send standard and extended communities. The ability to receive depends on the peer and local config. The capability is negotiated upon session reset.

* B: Incorrect. Changing capabilities requires the session to flap; it's not without consequence.

* C: Incorrect. It primarily enables outbound sending from R1. Inbound acceptance is implicit if the neighbor is activated.

* D: Correct. Modifying BGP neighbor capabilities, such as enabling send-community, necessitates a BGP session reset (flap) for the change to take effect.

* E: Incorrect terminology ("import/export", "type-1/type-2 communities").

* Conclusion: The command enables R1 to send communities (A describes the purpose/capability), and adding this command to an existing session will cause the session to flap for renegotiation (D describes the immediate consequence).

References: RFC 1997, RFC 4360, AOS-CX BGP Configuration Guide (communities, neighbor configuration). This relates to the "Routing" (16%) objective.

NEW QUESTION # 39

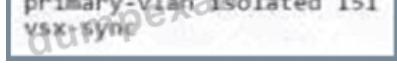
A customer has a requirement for VLAN 151 to be an isolated VLAN. A colleague has copied and pasted a partial configuration, but you do not achieve the desired outcome. This is the code that was added:

What should be added to the configuration before this code to achieve the desired result?

- A.** 

```
vlan 15
private-vlan primary
vsx-sync
```
- B.** 

```
vlan 15
isolated-vlan primary
vsx-sync
```
- C.** 

```
vlan 15
private-vlan isolated 151
vsx-sync
```
- D.** 

```
vlan 15
primary-vlan isolated 151
vsx-sync
```

Answer: A

Explanation:

The customer requires VLAN 151 to be configured as an isolated Private VLAN. A partial configuration was added, but the desired outcome wasn't achieved. We need to determine which configuration snippet should be added before the (unspecified) partial configuration to correctly set up the Private VLAN structure.

* Private VLAN Configuration Fundamentals:

* A Primary VLAN must be defined. This VLAN carries traffic between promiscuous ports and ports in associated secondary VLANs.

* Secondary VLANs (either isolated or community) are associated with the primary VLAN.

* Ports are then mapped to either the primary VLAN (promiscuous ports, typically router/firewall connections) or a secondary VLAN (host ports). Isolated ports within the same isolated VLAN cannot communicate with each other.

* Analyzing the Options (Assuming VLAN 15 is the intended Primary):

* A)

```
vlan 15
```

```
private-vlan primary
```

```
vsx-sync
```

This correctly defines VLAN 15 as the Primary Private VLAN. The vsx-sync command ensures this configuration is synchronized across a VSX pair (relevant if applicable). This is the necessary prerequisite before defining VLAN 151 as an isolated secondary VLAN and associating it with VLAN 15.

* B) isolated-vlan primary is incorrect syntax. The command is private-vlan primary.

* C) primary-vlan isolated 151 is incorrect syntax for defining either the primary or secondary VLAN type/association within the primary VLAN context.

* D) private-vlan isolated 151 within the vlan 15 context is incorrect syntax. The private-vlan isolated command belongs under the configuration of the secondary VLAN (VLAN 151 in this case).

* Conclusion: Before configuring VLAN 151 as private-vlan isolated and associating it, the primary VLAN must be defined. Option A correctly shows the command (private-vlan primary) under the intended primary VLAN's configuration (vlan 15) to establish it as the primary VLAN.

References: AOS-CX Security Guide (Private VLAN configuration steps and commands). This relates to the "Switching" (19%) and "Security" (10%) objectives.

NEW QUESTION # 40

The client would like to automate the process of troubleshooting issues to have better visibility. Which solution would you recommend for your client?

- A. HPE Aruba Networking Switch Multi-Edit Software
- B. Automate processes with scripting like Python
- **C. AIOps integrated into HPE Aruba Networking Central**
- D. HPE Aruba Networking F3bric Compose

Answer: C

Explanation:

The client wants to automate troubleshooting processes and gain better visibility into their network. We need to identify the recommended Aruba solution.

* Analysis of Options:

* A. HPE Aruba Networking Fabric Composer: A tool primarily for data center fabric provisioning and management, not general campus troubleshooting automation.

* B. HPE Aruba Networking Switch Multi-Edit Software: Likely refers to configuration management features (e.g., in Central or NetEdit) for applying changes to multiple switches, not primarily focused on automated troubleshooting or visibility.

* C. Automate processes with scripting like Python: AOS-CX supports on-box scripting (NAE) and REST APIs, enabling custom automation for monitoring and troubleshooting. While powerful, it requires development effort.

* D. AIOps integrated into HPE Aruba Networking Central: Aruba Central's AIOps capabilities are specifically designed to enhance visibility and automate aspects of troubleshooting. It uses AI

/ML to analyze network data, detect anomalies, provide insights into potential issues, correlate events, and offer prescriptive recommendations, directly addressing the client's need for better visibility and automated assistance with troubleshooting.

* Conclusion: While custom scripting (C) allows automation, Aruba Central AIOps (D) is the platform-integrated solution specifically marketed and designed by HPE Aruba Networking to provide enhanced visibility and automated insights for troubleshooting campus networks. It is the most direct and recommended solution among the options for achieving these goals within the Aruba ecosystem.

References: Aruba Central documentation (AIOPs features), AOS-CX NAE and REST API documentation.

This relates to "Troubleshooting" (10%) and "Performance Optimization" (6%) objectives.

NEW QUESTION # 41

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