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QUESTION NO: 11  
A company has an HPE Aruba Networking ClearPass cluster with several servers. ClearPass Policy Manager (CPM) is set up to:  
- Update client attributes based on Syslog messages from third-party appliances.  
- Have the clients reauthenticate and apply new profiles to the clients based on the updates to ensure that the correct profiles apply. What is one step you should take?

☐ A. Configure a CoA action for all tag updates in the ClearPass Device Insight integration settings.  
☐ B. Tune the CoA delay on the ClearPass servers to a value of 5 seconds or greater.  
☐ C. Set the cluster's Endpoint Context Servers polling interval to a value of 5 seconds or less.  
☐ D. Configure the cluster to periodically clean up (purge) unknown endpoints.

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Correct Answer: B [Vote an answer]

To ensure that the correct profiles apply after client attributes are updated based on Syslog messages, you should tune the Change of Authorization (CoA) delay on the ClearPass servers to a value of 5 seconds or greater. This delay allows sufficient time for the attribute updates to be processed and for the reauthentication to occur correctly, ensuring that the updated profiles are accurately applied to the clients.  
1. CoA Delay: Adjusting the CoA delay ensures that the system has enough time to update client attributes and reauthenticate them properly before applying new profiles.  
2. Profile Accuracy: This delay helps in preventing premature reauthentication and ensures that the most recent attribute updates are considered when applying profiles.  
3. System Synchronization: Ensures synchronization between the attribute update and the reauthentication process.

QUESTION NO: 12  
A company assigns a different block of VLAN IDs to each of its access-layer AOS-CX switches. The switches run version 10.27. The IDs are used for standard purposes, such as for employees, VoIP phones, and cameras. The company wants to apply 802.1X authentication to HPE Aruba Networking ClearPass Policy Manager (CPM) and then steer clients to the correct VLANs for local forwarding. What can you do to simplify setting up this solution?

☐ A. Assign consistent names to VLANs of the same type across the AOS-CX switches and have user-roles reference these names.  
☐ B. Use the trunk allowed VLAN setting to assign multiple VLAN IDs to the same role.  
☐ C. Change the VLAN IDs across the AOS-CX switches so that they are consistent.  
☐ D. Avoid configuring the VLAN in the role; use trunk VLANs to assign multiple VLANs to the port instead.

Hide answers/explanation Discussion 0

Correct Answer: A [Vote an answer]

To simplify the setup of 802.1X authentication with HPE Aruba Networking ClearPass Policy Manager (CPM), and ensure clients are steered to the correct VLANs for local forwarding, you should assign consistent names to VLANs of the same type across the AOS-CX switches and have user-roles reference these names. This approach allows for a more straightforward configuration and management process, as the user roles can apply consistent policies based on VLAN names rather than specific IDs. It also helps in maintaining clarity and reducing errors in VLAN assignments across different switches.

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## HP Aruba Certified Network Security Professional Exam Sample Questions (Q121-Q126):

### NEW QUESTION # 121

A company has HPE Aruba Networking APs (AOS-10), which authenticate clients to HPE Aruba Networking ClearPass Policy Manager (CPPM). CPPM is set up to receive a variety of information about clients' profile and posture. New information can mean that CPPM should change a client's enforcement profile.

What should you set up on the APs to help the solution function correctly?

- **A. In the RADIUS server settings for CPPM, enable Dynamic Authorization.**
- B. In the WLAN profiles, enable interim RADIUS accounting.
- C. In the RADIUS server settings for CPPM, enable querying the authentication status.
- D. In the security settings, configure dynamic denylisting.

**Answer: A**

Explanation:

To ensure that HPE Aruba Networking APs (AOS-10) properly interact with HPE Aruba Networking ClearPass Policy Manager (CPPM) and dynamically update a client's enforcement profile based on new profile and posture information, you should enable Dynamic Authorization in the RADIUS server settings for CPPM. This allows ClearPass to send Change of Authorization (CoA) requests to the APs, prompting them to reapply the appropriate enforcement profiles based on updated information.

1. Dynamic Authorization: Enabling this feature allows ClearPass to dynamically push changes to the APs whenever there is new relevant information about a client's profile or posture.

2. Change of Authorization (CoA): This mechanism ensures that clients are assigned the correct enforcement profiles in real-time, based on the latest data.

3. Enhanced Policy Enforcement: This setup helps in maintaining accurate and up-to-date policy enforcement for clients on the network.

Reference: ClearPass and AOS-10 documentation on RADIUS server settings and dynamic authorization explain the process and benefits of enabling Dynamic Authorization for real-time policy updates.

### NEW QUESTION # 122

A company wants to implement Virtual Network based Tunneling (VNBT) on a particular group of users and assign those users to an overlay network with VNI 3000.

Assume that an AOS-CX switch is already set up to:

- Implement 802.1X to HPE Aruba Networking ClearPass Policy Manager (CPPM)
- Participate in an EVPN VXLAN solution that includes VNI 3000

Which setting should you configure in the users' AOS-CX role to apply VNBT to them when they connect?

- **A. Access VLAN set to the VLAN mapped to VNI 3000**
- B. Access VLAN ID set to "3000"
- C. Gateway zone set to "vni-3000" with no gateway role set
- D. Gateway zone set to "3000" with no gateway role set

**Answer: A**

Explanation:

To apply Virtual Network based Tunneling (VNBT) to a particular group of users and assign them to an overlay network with VNI 3000, you should configure the users' AOS-CX role to set the Access VLAN to the VLAN mapped to VNI 3000. This ensures that when users connect, their traffic is tunneled through the specified VNI, integrating seamlessly with the EVPN VXLAN solution.

1. Access VLAN Configuration: Setting the Access VLAN to the VLAN mapped to VNI 3000 ensures that users' traffic is directed to the correct virtual network.

2. EVPN VXLAN Integration: This setup allows the AOS-CX switch to participate in the EVPN VXLAN solution, ensuring that user traffic is properly encapsulated and tunneled.

3. Role-Based Assignment: Configuring the role with the correct VLAN mapping ensures that users are dynamically assigned to the appropriate virtual network based on their role.

Reference: Aruba's documentation on AOS-CX configuration and VXLAN integration provides detailed steps for setting up VNBT and role-based VLAN assignments.

### NEW QUESTION # 123

A company wants to apply a standard configuration to all AOS-CX switch ports and have the ports dynamically adjust their configuration based on the identity of the user or device that connects. They want to centralize configuration of the identity-based settings as much as possible.

What should you recommend?

- **A. Having switches download user-roles from HPE Aruba Networking ClearPass Policy Manager (CPPM)**
- B. Having switches pull port configurations dynamically from HPE Aruba Networking Activate
- C. Having switches download user-roles from HPE Aruba Networking gateways
- D. Having HPE Aruba Networking ClearPass Policy Manager (CPPM) send standard RADIUS AVPs to customize port settings

**Answer: A**

Explanation:

For a company that wants to apply a standard configuration to all AOS-CX switch ports and dynamically adjust their configuration based on the identity of the user or device that connects, the best approach is to have the switches download user-roles from HPE Aruba Networking ClearPass Policy Manager (CPPM).

This method centralizes the configuration of identity-based settings in CPPM, allowing it to dynamically assign roles and policies to switch ports based on authentication and authorization results. This ensures consistent and secure network access control tailored to each user or device.

### NEW QUESTION # 124

Refer to the exhibit:

The screenshot shows the 'Enforcement Profiles' configuration page in a web interface. The 'Services' tab is selected. The 'Privilege Level' is set to '15 (Privileged)'. Under 'Selected Services', 'Aruba Common' is listed with a 'Remove' button. Below this is a '--Select--' dropdown. The 'Authorize Attribute Status' is set to 'ADD'. A note for 'Custom Services' says: 'To add new TACACS+ services / attributes; upload the modified dictionary xml - Update TACACS+ Services Dictionary'. At the bottom, a table titled 'Service Attributes' has columns 'Type', 'Name', 'Value', and an icon column. It contains one entry: '1. Aruba:Common' (Type), 'Aruba-Admin-Role' (Name), and 'operators' (Value).

The exhibit shows the TACACS+ enforcement profile that HPE Aruba Networking ClearPass Policy Manager (CPPM) assigns to a manager. When this manager logs into an AOS-CX switch, what does the switch do?

- **A. Assigns the manager operator-level privileges**
- B. Assigns the manager auditor-level privileges
- C. Assigns the manager administrator-level privileges
- D. Rejects the manager with an error message

**Answer: A**

Explanation:

\* TACACS+ Enforcement Profile:

\* The profile specifies a Service Attribute under Aruba:Common with:

\* Name: Aruba-Admin-Role

\* Value: operators

\* AOS-CX Role Mapping:

\* On Aruba AOS-CX switches, the Aruba-Admin-Role attribute maps the authenticated user to predefined roles:

\* operators: Operator-level privileges (read-only access, limited commands).

- \* administrators: Full administrator privileges.
- \* Other roles like auditors may exist based on configuration.
- \* Analysis:
  - \* The value operators explicitly maps the user to operator-level privileges, granting read-only access to the AOS-CX switch.
  - \* Since the Aruba-Admin-Role is correctly set and recognized, the switch assigns the appropriate role without errors.
- \* Option Breakdown:
  - \* Option A: Correct. The switch assigns operator-level privileges based on the Aruba-Admin- Role value.
  - \* Option B: Incorrect. Administrator-level privileges require the role value to be administrators.
  - \* Option C: Incorrect. The manager is successfully authenticated and authorized; there is no error.
  - \* Option D: Incorrect. There is no reference to an auditor role in the configuration shown.

Conclusion:

The operators value in the TACACS+ enforcement profile ensures that the manager is assigned operator- level privileges on the AOS-CX switch.

### NEW QUESTION # 125

What role can Internet Key Exchange (IKE)/IKEv2 play in an HPE Aruba Networking client-to-site VPN?

- A. It provides a more modern and secure alternative to IPsec.
- **B. It helps to negotiate the IPsec SA automatically and securely.**
- C. It helps remote clients download IPsec profiles for later use.
- D. It provides an alternative to IPsec that is suitable for legacy clients.

**Answer: B**

Explanation:

Internet Key Exchange (IKE)/IKEv2 plays a crucial role in an HPE Aruba Networking client-to-site VPN by helping to negotiate the IPsec Security Association (SA) automatically and securely. IKE/IKEv2 handles the authentication and key exchange processes, ensuring that both the client and the VPN gateway can establish a secure IPsec tunnel.

1.SA Negotiation: IKE/IKEv2 automates the negotiation of the Security Association, which defines the parameters for the secure IPsec tunnel.

2.Secure Authentication: It provides a secure method for authenticating the communicating parties and exchanging cryptographic keys.

3.Efficiency: Using IKE/IKEv2 simplifies the setup and maintenance of secure VPN connections, enhancing the overall security and reliability of the VPN.

Reference: Documentation on IPsec VPNs and IKE/IKEv2 protocols explains how these protocols facilitate secure and automated negotiation of IPsec tunnels, ensuring robust client-to-site VPN connections.

### NEW QUESTION # 126

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