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HP Aruba Certified Network Security Professional Exam Sample Questions (Q123-Q128):

NEW QUESTION # 123

A company has AOS-CX switches and HPE Aruba Networking ClearPass Policy Manager (CPPM). The company wants switches to implement 802.1X authentication to CPPM and download user roles.

What is one task that you must complete on the switches to support this use case?

- A. Specify a ClearPass username and password that match the name and RADIUS secret in a CPPM network device entry.
- B. Specify CPPM as the RADIUS server with the exact CN in CPPM's HTTPS certificate.
- C. Configure empty user-roles with names that match enforcement profile names on CPPM.
- **D. Install the root CA certificate for CPPM's RADIUS certificate in a TA profile on the switches.**

Answer: D

Explanation:

To support 802.1X authentication and download user roles from HPE Aruba Networking ClearPass Policy Manager (CPPM) on AOS-CX switches, you must install the root CA certificate for CPPM's RADIUS certificate in a Trust Anchor (TA) profile on the switches. This ensures that the switches trust the RADIUS server certificate presented by CPPM during the authentication process.

1. Root CA Certificate: Installing the root CA certificate ensures that the switch can verify the authenticity of the RADIUS server certificate provided by CPPM.

2. Trust Anchor Profile: The TA profile on the switch holds the root CA certificate, establishing a trust relationship between the switch and the CPPM RADIUS server.

3. Secure Authentication: This setup is essential for securing the 802.1X authentication process and enabling the download of user roles.

Reference: AOS-CX switch configuration guides and ClearPass integration documentation detail the steps for installing root CA certificates and configuring trust anchor profiles to enable secure RADIUS authentication and role-based access control.

NEW QUESTION # 124

A company has HPE Aruba Networking Central-managed APs. The company wants to block all clients connected through the APs from using YouTube.

Which steps should you take?

- A. Deploy gateways and have the APs tunnel traffic to the gateways. Then, enable the gateway IDS/IPS engine.
- **B. Enable DPI. Then, create application rules to deny YouTube on the firewall roles.**
- C. Enable WebCC on all client firewall roles. Then, create WebCC category rules that deny suspicious URLs.
- D. Enable Client IPS at the "custom" level, and then specify the check for YouTube.

Answer: B

Explanation:

To block all clients connected through HPE Aruba Networking Central-managed APs from accessing YouTube, you should enable DPI (Deep Packet Inspection) and then create application rules to deny YouTube on the firewall roles. DPI allows the network to inspect and classify traffic based on application signatures, making it possible to enforce application-specific policies. By creating rules that specifically block YouTube traffic, you can effectively prevent clients from accessing the service.

NEW QUESTION # 125

You are deploying a virtual Data Collector for use with HPE Aruba Networking ClearPass Device Insight (CPDI). You have

identified VLAN 101 in the data center as the VLAN to which the Data Collector should connect to receive its IP address and connect to HPE Aruba Networking Central.

Which Data Collector virtual ports should you tell the virtual admins to connect to VLAN 101?

- A. The one with the highest MAC address
- B. The one with the lowest MAC address
- **C. The one with the lowest port ID**
- D. The one with the highest port ID

Answer: C

Explanation:

When deploying a virtual Data Collector for HPE Aruba Networking ClearPass Device Insight (CPDI), it is essential to ensure that the correct virtual port is connected to the designated VLAN. In this case, VLAN 101 is used to receive the IP address and connect to Aruba Central. The best practice is to use the virtual port with the lowest port ID. This is typically the primary port used for management and network connectivity in virtual environments, ensuring proper network integration and communication.

NEW QUESTION # 126

A company has AOS-CX switches. The company wants to make it simpler and faster for admins to detect denial of service (DoS) attacks, such as ping or ARP floods, launched against the switches.

What can you do to support this use case?

- **A. Deploy an NAE agent on the switches to monitor control plane policing (CoPP).**
- B. Enabling debugging of security functions on the switches.
- C. Configure the switches to implement RADIUS accounting to HPE Aruba Networking ClearPass and enable HPE Aruba Networking ClearPass Insight.
- D. Implement ARP inspection on all VLANs that support end-user devices.

Answer: A

Explanation:

To support the detection of denial of service (DoS) attacks on AOS-CX switches, deploying an NAE (Network Analytics Engine) agent to monitor control plane policing (CoPP) is the best approach. NAE agents provide real-time analytics and monitoring capabilities, allowing administrators to detect anomalies and potential DoS attacks, such as ping or ARP floods, more quickly and efficiently. Control plane policing helps protect the switch's CPU from unnecessary or malicious traffic, and the NAE agent can alert administrators when thresholds are exceeded, providing a proactive measure to detect and mitigate DoS attacks.

NEW QUESTION # 127

You are establishing a cluster of HPE Aruba Networking ClearPass servers. (Assume that they are running version 6.9.).

For which type of certificate is it recommended to install a CA-signed certificate on the Subscriber before it joins the cluster?

- A. RadSec
- B. Database
- C. RADIUS/EAP
- **D. HTTPS**

Answer: D

Explanation:

When setting up a ClearPass cluster, it is critical to ensure secure communication between the cluster nodes and the client devices. For this purpose, certain certificates must be properly configured.

1. Why HTTPS Requires a CA-Signed Certificate?

* HTTPS communication is used for inter-cluster communication and for the web-based user interface that administrators use to manage the ClearPass cluster.

* Before joining the cluster, it is strongly recommended to install a CA-signed HTTPS certificate on the Subscriber to ensure secure communication and prevent warnings/errors due to untrusted certificates.

* Without a CA-signed certificate, the Subscriber might use a self-signed certificate, leading to security risks and lack of trust validation.

2. Analysis of Other Certificate Types

* Incorrect: Database communications within ClearPass clusters are secured using internal certificates or keys. These are not user-facing and do not require a CA-signed certificate before joining the cluster.

* C. RADIUS/EAP:

* Incorrect: RADIUS/EAP certificates are important for client authentication, but they are not required on the Subscriber prior to cluster joining. These can be configured after the Subscriber is part of the cluster.

* D. RadSec:

* Incorrect: RadSec is an optional feature for secure RADIUS communication over TLS, and its certificate configuration is typically performed post-cluster setup.

Final Recommendation

To ensure secure cluster operations and seamless web-based management, a CA-signed HTTPS certificate should be installed on the Subscriber before it joins the ClearPass cluster.

References

* ClearPass Deployment Guide for Version 6.9.

* Best Practices for Certificate Management in ClearPass Clusters.

* HPE Aruba ClearPass Cluster Configuration Guide.

NEW QUESTION # 128

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