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HP Aruba Certified Network Security Professional - HPE7-A02 Free Exam Questions

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 (delete) unknown endpoints.

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Correct Answer: B View 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 10.07. The IDs are used for standard purposes, such as for employees, your 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 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 View 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 (Q57-Q62):

NEW QUESTION # 57

You have created this rule in an HPE Aruba Networking ClearPass Policy Manager (CPPM) service's enforcement policy:

IF Authorization [Endpoints Repository] Conflict EQUALS true

THEN apply "quarantine_profile"

What information can help you determine whether you need to configure cluster-wide profiler parameters to ignore some conflicts?

- A. Whether some devices are incapable of captive portal or 802.1X authentication
- B. Whether some devices are running legacy operating systems
- C. Whether the company has rare Internet of Things (IoT) devices
- **D. Whether the company has devices that use PXE boot**

Answer: D

Explanation:

A conflict in the Endpoints Repository usually indicates that ClearPass has seen different profiling data for the same MAC, which might mean a spoofing attempt-or simply normal behavior for certain device types.

Devices that use PXE boot often:

- * Boot initially from the network with one set of characteristics (e.g., a minimal OS, different DHCP fingerprint),
- * Then chain-load into a different OS with a different fingerprint and sometimes even a different network profile.

Aruba exam and design material specifically point out PXE boot as a common, benign cause of profiler conflicts and recommend tuning cluster-wide profiler parameters to ignore or relax some conflicts for these devices.

Therefore, you look at whether the company has devices that use PXE boot when deciding whether to tune profiler conflict behavior
Option D.

NEW QUESTION # 58

A company needs you to integrate HPE Aruba Networking ClearPass Policy Manager (CPPM) with HPE Aruba Networking ClearPass Device Insight (CPDI).

What is one task you should do to prepare?

- A. Collect a Data Collector token from HPE Aruba Networking Central.
- **B. Enable Insight in the CPPM server configuration settings.**
- C. Configure WMI, SSH, and SNMP external accounts for device scanning on CPPM.
- D. Install the root CA for CPPM's HTTPS certificate as trusted in the CPDI application.

Answer: B

Explanation:

To integrate HPE Aruba Networking ClearPass Policy Manager (CPPM) with HPE Aruba Networking ClearPass Device Insight (CPDI), one of the necessary tasks is to enable Insight in the CPPM server configuration settings. This configuration allows CPPM to communicate and share data with CPDI, facilitating the integration and enabling enhanced device profiling and policy enforcement capabilities.

1. Insight Enablement: Enabling Insight on the CPPM server allows it to leverage the data and capabilities of CPDI, integrating device profiling information into policy decisions.

2.Data Sharing: This integration ensures that CPPM can receive and use detailed device information from CPDI to make more informed policy enforcement decisions.

3.Configuration: Properly configuring the server settings to enable Insight ensures seamless communication and data flow between CPPM and CPDI.

Reference: Aruba ClearPass integration guides provide detailed instructions on enabling Insight and configuring the necessary settings for effective integration between CPPM and CPDI.

NEW QUESTION # 59

A company uses both HPE Aruba Networking ClearPass Policy Manager (CPPM) and HPE Aruba Networking ClearPass Device Insight (CPDI).

What is one way integrating the two solutions can help the company implement Zero Trust Security?

- A. CPDI can use tags to inform CPPM that clients are using prohibited applications; CPPM can then tell the network infrastructure to quarantine those clients.
- B. CPPM can provide CPDI with custom device fingerprint definitions in order to enhance the company's total visibility.
- C. CPDI can provide CPPM with extra information about users' identity; CPPM can then use that information to apply the correct identity-based enforcement.
- D. CPPM can inform CPDI that it has assigned a particular Aruba-User-Role to a client; CPDI can then use that information to reclassify the client.

Answer: A

Explanation:

Integrating HPE Aruba Networking ClearPass Policy Manager (CPPM) and HPE Aruba Networking ClearPass Device Insight (CPDI) can help a company implement Zero Trust Security by allowing CPDI to use tags to inform CPPM that clients are using prohibited applications. CPPM can then take action, such as telling the network infrastructure to quarantine those clients, ensuring that only compliant and trusted devices have network access.

1.Device Insight Tags: CPDI can monitor client behavior and tag devices that are using prohibited applications.

2.Policy Enforcement: CPPM can use these tags to apply specific enforcement actions, such as quarantining non-compliant devices.

3.Zero Trust Implementation: This integration supports Zero Trust Security by ensuring that all devices are continuously monitored and controlled based on their behavior and compliance with security policies.

NEW QUESTION # 60

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

Answer: C

Explanation:

Why Monitoring Control Plane Policing (CoPP) with an NAE Agent Is Effective for Detecting DoS Attacks

* Control Plane Policing (CoPP): AOS-CX switches use CoPP to protect the CPU from excessive traffic caused by DoS attacks (e.g., ARP floods, ICMP floods). CoPP enforces rate limits and drops malicious traffic at the control plane level.

* NAE (Network Analytics Engine) Agent:

* The NAE on AOS-CX switches can monitor CoPP counters in real time and trigger alerts if thresholds for certain traffic types (e.g., ICMP, ARP) are exceeded.

* Admins can use NAE to automate detection and respond faster to DoS attacks.

Analysis of Each Option

A: Deploy an NAE agent on the switches to monitor control plane policing (CoPP):

* Correct:

* NAE agents provide real-time visibility into CoPP behavior, helping detect DoS attacks more quickly.

* By analyzing CoPP statistics, the NAE can pinpoint abnormal traffic patterns and alert admins.

* This is the most efficient and scalable solution for this use case.

B: Configure the switches to implement RADIUS accounting to HPE Aruba Networking ClearPass and enable HPE Aruba Networking ClearPass Insight:

* Incorrect:

* While ClearPass can provide visibility into user authentication and device activity, it is not specifically designed to detect or mitigate DoS attacks against switches.

C: Implement ARP inspection on all VLANs that support end-user devices:

* Incorrect:

* ARP inspection helps mitigate ARP spoofing or poisoning, but it does not directly address detection of DoS attacks like ICMP or ARP floods.

* It is a preventative measure, not a detection tool.

D: Enabling debugging of security functions on the switches:

* Incorrect:

* Debugging logs can help troubleshoot specific issues but are not practical for real-time detection of DoS attacks.

* Enabling debugging can overload the switch and is not suitable for proactive monitoring.

Final Recommendation

Deploying an NAE agent to monitor CoPP is the best solution because it provides real-time detection, alerting, and insights into traffic patterns that indicate DoS attacks.

References

* AOS-CX Network Analytics Engine (NAE) Configuration Guide.

* HPE Aruba AOS-CX Control Plane Policing Documentation.

* Best Practices for Protecting Switches Against DoS Attacks in Aruba Networks.

NEW QUESTION # 61

What is a typical use case for using HPE Aruba Networking ClearPass Onboard to provision devices?

- **A. Enabling unmanaged devices to succeed at certificate-based 802.1X**
- B. Enabling managed Windows domain computers to succeed at certificate-based 802.1X
- C. Enforcing posture-based assessment on managed Windows domain computers
- D. Enhancing security for IoT devices that need to authenticate with MAC-Auth

Answer: A

Explanation:

A typical use case for using HPE Aruba Networking ClearPass Onboard is to provision unmanaged devices to succeed at certificate-based 802.1X authentication. ClearPass Onboard allows users to securely configure their personal devices with the necessary certificates and network settings to authenticate on the network using 802.1X, which enhances security and simplifies the onboarding process for unmanaged devices.

1. Certificate-Based Authentication: ClearPass Onboard simplifies the process of issuing and installing certificates on unmanaged devices, ensuring they can authenticate securely using 802.1X.

2. User-Friendly Onboarding: The Onboard process is user-friendly, guiding users through the steps needed to configure their devices for network access.

3. Enhanced Security: By using certificates for authentication, the solution provides a higher level of security compared to traditional username/password methods.

NEW QUESTION # 62

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