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

QUESTION NO: 1
A company uses HPE Aruba Networking ClearPass Policy Manager (CPPM) as a TACACS+ server to authenticate managers on its AOS-CX switches. You want to assign managers to groups on the AOS-CX switch by name. How do you configure this setting in a CPPM TACACS+ enforcement profile?

- A. Add the Shell service and set sudocmd to the group name.
- B. Add the Shell service and set priv-lev to the group name.
- C. Add the Aruba Common service and set Aruba-Admin-Role to the group name.
- D. Add the Aruba Common service and set Aruba-Priv-Admin-User to the group name.

Hide answer/explanation Discussion

Correct Answer: C

To assign managers to groups on the AOS-CX switch by name using HPE Aruba Networking ClearPass Policy Manager (CPPM) as a TACACS+ server, you should add the Aruba service to the TACACS+ enforcement profile and set the Aruba-Admin-Role to the group name. This configuration ensures that the appropriate administrative roles are assigned to managers based on their group membership, allowing for role-based access control on the AOS-CX switches.

QUESTION NO: 2
You are using OpenSSL to obtain a certificate signed by a Certification Authority (CA). You have entered this command:
openssl req -new -out file1.pem -keyout rsa.3072 -keyout file2.pem
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
Country Name (2 letter code) [AU]: US
State or Province Name (full name) [Some-State]: California
Locality Name (eg, city) []: Sunnyvale
Organization Name (eg, company) [Internet Widgits Pty Ltd]: example.com
Organizational Unit Name (eg, section) []: Infrastructure
Common Name (e.g. server FQDN or YOUR name) []: radius.example.com
What is one guideline for continuing to obtain a certificate?

- A. You should use a third-party tool to encrypt file2.pem before sending it and file1.pem to the CA.
- B. You should concatenate file1.pem and file2.pem into a single file, and submit that to the desired CA to sign.
- C. You should submit file1.pem, but not file2.pem, to the desired CA to sign.
- D. You should submit file2.pem, but not file1.pem, to the desired CA to sign.

Hide answer/explanation Discussion

Correct Answer: C

When using OpenSSL to obtain a certificate signed by a Certification Authority (CA), you should submit the Certificate Signing Request (CSR) file, which is file1.pem, to the CA. The CSR contains the information about the entity requesting the certificate and the public key, but not the private key, which is in file2.pem. The CA uses the information in the CSR to create and sign the certificate.
1. CSR Submission: The CSR (file1.pem) includes the public key and the entity information required by the CA to issue a certificate.

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To be eligible for the HPE7-A02 exam, candidates should have at least two years of experience in designing and implementing

network security solutions, as well as a solid understanding of networking fundamentals and protocols. They should also possess a basic knowledge of Aruba products and solutions, which can be acquired through training courses or practical experience.

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HP Aruba Certified Network Security Professional Exam Sample Questions (Q92-Q97):

NEW QUESTION # 92

A ClearPass Policy Manager (CPPM) service includes these settings:

- * Role Mapping Policy:
- * Evaluate: Select first
- * Rule 1 conditions:
- * Authorization:AD:Groups EQUALS Managers
- * Authentication:TEAP-Method-1-Status EQUALS Success
- * Rule 1 role: manager
- Rule 2 conditions:
- * Authentication:TEAP-Method-1-Status EQUALS Success
- * Rule 2 role: domain-comp
- Default role: [Other]
- Enforcement Policy:
- * Evaluate: Select first
- * Rule 1 conditions:
- * Tips Role EQUALS manager AND Tips Role EQUALS domain-comp
- * Rule 1 profile list: domain-manager
- Rule 2 conditions:
- * Tips Role EQUALS manager
- * Rule 2 profile list: manager-only
- Rule 3 conditions:
- * Tips Role EQUALS domain-comp
- * Rule 3 profile list: domain-only
- Default profile: [Deny access]

A client is authenticated by the service. CPPM collects attributes indicating that the user is in the Contractors group, and the client passed both TEAP methods.

Which enforcement policy will be applied?

- A. [Deny Access Profile]
- B. manager-only
- C. domain-manager
- D. domain-only

Answer: A

Explanation:

1. Understanding the Role Mapping Evaluation:

* Role mapping is set to "Evaluate: Select first," meaning the first rule that matches the client attributes will determine the role(s) assigned.

* Contractors group: Since the client is in the Contractors group (not Managers), Rule 1 in the Role Mapping Policy does not match.

* TEAP-Method-1-Status EQUALS Success: This condition matches Rule 2, so the client is assigned the domain-comp role.

* No other rules match, so the default role [Other] is not applied.

2. Resulting Role from Role Mapping Policy:

* The client is assigned the domain-comp role.

3. Enforcement Policy Evaluation:

* Enforcement policy is also set to "Evaluate: Select first," so the first matching rule determines the enforcement profile.

* Rule 1 (Tips Role = manager AND domain-comp):

* The client only has the domain-comp role, not manager, so this rule does not match.

* Rule 2 (Tips Role = manager):

* The client does not have the manager role, so this rule does not match.

* Rule 3 (Tips Role = domain-comp):

* This rule matches the client's role, but it is not evaluated because the enforcement policy already skipped to the default action after failing the first two rules.

4. Default Enforcement Profile:

* Since no rule explicitly matches and the policy evaluation stops at the default, the default profile [Deny Access Profile] is applied.

Final Outcome:

The client is denied access because none of the matching rules satisfy the conditions.

References

* Aruba ClearPass Policy Manager Role Mapping and Enforcement Policies Guide.

* Role and Policy Evaluation Logic for ClearPass Authentication Services.

NEW QUESTION # 93

A company has HPE Aruba Networking APs running AOS-10 and managed by HPE Aruba Networking Central. The company also has AOS-CX switches. The security team wants you to capture traffic from a particular wireless client. You should capture this client's traffic over a 15 minute time period and then send the traffic to them in a PCAP file.

What should you do?

- **A. Go to the client's AP in HPE Aruba Networking Central. Use the "Security" page to run a packet capture.**
- B. Access the CLI for the client's AP's switch. Set up a mirroring session between the AP's port and a management station running Wireshark.
- C. Access the CLI for the client's AP. Set up a mirroring session between its radio and a management station running Wireshark.
- D. Go to that client in HPE Aruba Networking Central. Use the "Live Events" page to run a packet capture.

Answer: A

Explanation:

To capture traffic from a particular wireless client for a 15-minute period and then send the traffic in a PCAP file, you should go to the client's AP in HPE Aruba Networking Central and use the "Security" page to run a packet capture. This method allows you to directly capture the client's traffic from the AP managing the wireless connection, ensuring that you gather the relevant traffic data for analysis.

1. Centralized Management: HPE Aruba Networking Central provides a centralized interface for managing and monitoring APs, making it easy to initiate packet captures.

2. Security Page: The "Security" page in Aruba Central includes tools for running packet captures, allowing you to specify the duration and other parameters.

3. Ease of Use: This approach simplifies the process by using the built-in features of Aruba Central, avoiding the need for complex CLI commands or additional hardware.

NEW QUESTION # 94

Assume that an AOS-CX switch is already implementing DHCP snooping and ARP inspection successfully on several VLANs.

What should you do to help minimize disruption time if the switch reboots?

- **A. Save the IP-to-MAC bindings to external storage.**
- B. Configure the IP helper address on this switch, rather than a core routing switch.
- C. Configure the switch to act as an ARP proxy.
- D. Create static IP-to-MAC bindings for the DHCP and DNS servers.

Answer: A

Explanation:

To minimize disruption time if an AOS-CX switch reboots while implementing DHCP snooping and ARP inspection, you should save the IP-to-MAC bindings to external storage. This ensures that the DHCP snooping and ARP inspection tables, which are crucial for preventing spoofing attacks, are preserved across reboots. When the switch restarts, it can reload these bindings from the external storage, thereby maintaining network security and reducing the downtime associated with rebuilding these tables.

1. Preserving Bindings: Saving IP-to-MAC bindings to external storage ensures that these critical security tables are not lost during a reboot, maintaining network integrity.

2. Security Continuity: This practice helps to quickly restore security features like DHCP snooping and ARP inspection, minimizing the window of vulnerability.

3. Operational Efficiency: By preserving these bindings, the switch can resume normal operations faster, reducing disruption to

network services.

NEW QUESTION # 95

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

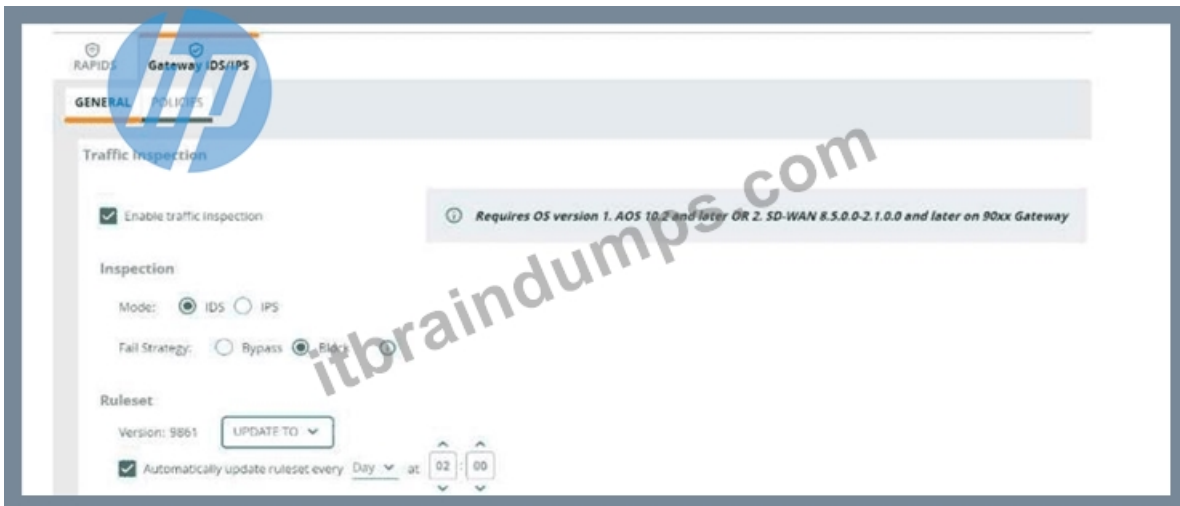
Answer: B

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 # 96

Refer to Exhibit:



An HPE Aruba Networking 9x00 gateway is part of an HPE Aruba Networking Central group that has the settings shown in the exhibit. What would cause the gateway to drop traffic as part of its IDPS settings?

- A. Its IDPS engine failing
- B. Traffic showing anomalous behavior
- **C. Traffic matching a rule in the active ruleset**
- D. Its site-to-site VPN connections failing

Answer: C

Explanation:

1. IDPS Mode Configuration Overview

The exhibit shows the HPE Aruba Networking Central settings for the Gateway IDS/IPS configuration:

Mode: Configured for Intrusion Prevention System (IPS), meaning that the gateway actively blocks traffic identified as threats.

Fail Strategy: Configured to Block, meaning that if the gateway cannot determine the traffic's nature due to a system issue, it will block the traffic.

Ruleset: The gateway uses a predefined set of intrusion detection/prevention rules (ruleset version 9861), which is updated automatically every day.

2. Traffic Evaluation in IPS Mode

In IPS mode, the gateway analyzes traffic against the active ruleset:

If traffic matches a rule in the ruleset and is deemed malicious, the gateway will drop the traffic as part of its prevention mechanism. The ruleset defines specific conditions (e.g., signatures of known attacks, protocol anomalies) under which traffic should be blocked.

3. Explanation of Each Option

A). Its site-to-site VPN connections failing:

Incorrect:

Site-to-site VPN connection issues do not directly trigger traffic drops under IDPS settings.

IDPS is focused on detecting and preventing malicious activity, not general connectivity issues.

B). Traffic matching a rule in the active ruleset:

Correct:

In IPS mode, the gateway drops traffic that matches any predefined rules in the active ruleset.

For example, if traffic matches the signature of a known exploit or attack, it is immediately blocked.

C). Its IDPS engine failing:

Incorrect:

The fail strategy determines how the gateway behaves in the event of an IDPS engine failure.

In this case, the fail strategy is set to Block, but this applies only if the engine itself fails, not as a proactive traffic drop mechanism.

D). Traffic showing anomalous behavior:

Incorrect:

While anomalous behavior may be logged or flagged, it does not necessarily lead to traffic drops unless it matches a specific rule in the active ruleset.

Anomaly detection alone is not sufficient for IPS action without explicit rule matches.

Final Outcome:

Traffic is dropped only when it matches a rule in the active ruleset, ensuring targeted prevention of malicious activity.

References

Aruba Gateway IDS/IPS Configuration Guide.

Aruba Central Ruleset Management Documentation.

Best Practices for Configuring Fail Strategies in IPS Mode.

NEW QUESTION # 97

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