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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 autocmd to the group name.
- B. Add the Shell service and set priv lvl 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 0

Correct Answer: C [Vote an answer](#)

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 -newkey 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 0

Correct Answer: C [Vote an answer](#)

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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HP Aruba Certified Network Security Professional Exam Sample Questions (Q67-Q72):

NEW QUESTION # 67

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

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

Answer: D

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.

NEW QUESTION # 68

Refer to the exhibits.

□ You are setting up HPE Aruba Networking ClearPass Policy Manager (CPPM) to authenticate wireless clients with EAP-TLS and 802.1X. CPPM should assign clients to an AOS firewall role named contractors- fullaccess if the clients meet these requirements:

* AD account is enabled: AccountStatus 512

* Security group name is Contractors

What should you do to make these policies meet these requirements?

- A. In the enforcement policy rule 1, remove the second condition; also change the profile to one named "contractors-fullaccess."
- **B. In the enforcement policy rule 1, change the profile to a RADIUS enforcement profile with the Aruba- User-Role attribute set to contractors-fullaccess .**
- C. Add this rule to the enforcement policy: IF Tips:Role EQUALS role2 , THEN profile = RADIUS enforcement profile with the Aruba-User-Role attribute set to contractors-fullaccess .
- D. In the role mapping policy rule 2, change "role2" to a role named "contractors-fullaccess."

Answer: B

Explanation:

The role mapping policy is configured to Evaluate all , so a client with an enabled AD account receives role1

, and a client in the Contractors group receives role2 . A client that meets both requirements receives both roles. The enforcement policy uses First applicable , and rule 1 already checks for both conditions: Tips:

Role EQUALS role1 AND Tips:Role EQUALS role2 . Therefore, the matching logic is already correct.

What is missing is the correct enforcement action. To assign an AOS firewall role, CPPM must return the appropriate RADIUS enforcement profile containing the Aruba-User-Role VSA set to contractors-fullaccess

. Changing only role mapping names does not assign the firewall role. Adding a separate role2-only rule would incorrectly match Contractors users whose AD account status is not enabled.

NEW QUESTION # 69

A company wants to use HPE Aruba Networking ClearPass Policy Manager (CPPM) to profile Linux devices. You have decided to schedule a subnet scan of the devices' subnets. Which additional step should you complete before scheduling the scan?

- A. Enable the Data Port in the ClearPass server settings and connect that port to the network.
- B. Set up SSH accounts on CPPM and map them to the Linux devices' subnets.
- C. Enable WMI probing in the cluster-wide parameters.
- D. Configure SNMP in the network device settings for the switches that support the Linux devices.

Answer: A

Explanation:

* Subnet Scan Requirements for Profiling:

* For ClearPass to scan and profile devices in a subnet, the Data Port must be enabled on the ClearPass server and connected to the network.

* This ensures that ClearPass can send and receive the required packets for device discovery and profiling.

* Option Analysis:

* Option A: Incorrect. SSH accounts are not required for subnet scanning.

* Option B: Incorrect. WMI probing is for Windows systems, not Linux devices.

* Option C: Correct. The Data Port is essential for subnet scans and must be properly configured and connected.

* Option D: Incorrect. SNMP is used for network device monitoring, not Linux device profiling.

NEW QUESTION # 70

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

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 # 71

A company issues user certificates to domain computers using its Windows CA and the default user certificate template. You have set up HPE Aruba Networking ClearPass Policy Manager (CPPM) to authenticate 802.1X clients with those certificates. However, during tests, you receive an error that authorization has failed because the usernames do not exist in the authentication source. What is one way to fix this issue and enable clients to successfully authenticate with certificates?

- A. Add the ClearPass Onboard local repository to the authentication source list.
- **B. Configure rules to strip the domain name from the username.**
- C. Remove EAP-TLS from the authentication method list and add TEAP there instead.
- D. Change the authentication method list to include both PEAP MSCHAPv2 and EAP-TLS.

Answer: B

Explanation:

To fix the issue where authorization fails because the usernames do not exist in the authentication source, you can configure rules in HPE Aruba Networking ClearPass Policy Manager (CPPM) to strip the domain name from the username. When certificates are issued by a Windows CA, the username in the certificate often includes the domain (e.g., user@domain.com). ClearPass might not be able to find this format in the authentication source. By stripping the domain name, you ensure that ClearPass searches for just the username (e.g., user) in the authentication source, allowing successful authentication.

Reference: ClearPass configuration guides and documentation on certificate-based authentication detail the process of modifying and normalizing usernames to ensure successful authentication against authentication sources.

NEW QUESTION # 72

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