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HP Aruba Certified Network Security Associate Exam Sample Questions (Q112-Q117):

NEW QUESTION # 112

What is one difference between EAP-Tunneled Layer security (EAP-TLS) and Protected EAP (PEAP)?

- A. EAP-TLS requires the supplicant to authenticate with a certificate, but PEAP allows the supplicant to use a username and password.
- B. EAP-TLS creates a TLS tunnel for transmitting user credentials, while PEAP authenticates the server and supplicant during a TLS handshake.
- C. EAP-TLS begins with the establishment of a TLS tunnel, but PEAP does not use a TLS tunnel as part of its process.
- D. EAP-TLS creates a TLS tunnel for transmitting user credentials securely while PEAP protects user credentials with TKIP encryption.

Answer: A

Explanation:

EAP-TLS and PEAP both provide secure authentication methods, but they differ in their requirements for client-side authentication. EAP-TLS requires both the client (supplicant) and the server to authenticate each other with certificates, thereby ensuring a very high level of security. On the other hand, PEAP requires a server-side certificate to create a secure tunnel and allows the client to authenticate using less stringent methods, such as a username and password, which are then protected by the tunnel. This makes PEAP more flexible in environments where client-side certificates are not feasible. References: EAP-TLS and PEAP authentication protocols comparison.

NEW QUESTION # 113

What is one of the roles of the network access server (NAS) in the AAA framework?

- A. It determines which resources authenticated users are allowed to access and monitors each user's session.
- B. It authenticates legitimate users and uses policies to determine which resources each user is allowed to access.
- C. It enforces access to network services and sends accounting information to the AAA server.
- D. It negotiates with each user's device to determine which EAP method is used for authentication.

Answer: C

Explanation:

The AAA (Authentication, Authorization, and Accounting) framework is used in network security to manage user access. In this framework, the Network Access Server (NAS) plays a specific role. In an HPE Aruba Networking environment, the NAS is typically a device like a Mobility Controller (MC) or an AOS-CX switch that interacts with an AAA server (e.g., ClearPass Policy Manager, CPPM) to authenticate users.

NAS Role in AAA:

Authentication: The NAS acts as a client to the AAA server (e.g., via RADIUS), forwarding authentication requests from the user's device to the server. It does not perform the authentication itself; the AAA server authenticates the user.

Authorization: After authentication, the NAS receives authorization attributes from the AAA server (e.g., a user role via Aruba-User-Role VSA) and enforces access policies (e.g., firewall rules, VLAN assignment) based on those attributes.

Accounting: The NAS sends accounting information (e.g., session start/stop, data usage) to the AAA server to track user activity.

Option A, "It negotiates with each user's device to determine which EAP method is used for authentication," is incorrect. The NAS does not negotiate the EAP method with the user's device. The EAP method (e.g., EAP-TLS, PEAP) is determined by the configuration on the NAS and the AAA server, and the client must support the configured method. The negotiation of EAP methods occurs between the client (supplicant) and the AAA server, with the NAS acting as a pass-through.

Option B, "It determines which resources authenticated users are allowed to access and monitors each user's session," is incorrect. The NAS enforces access policies based on authorization attributes received from the AAA server, but it does not determine which resources users can access—that decision is made by the AAA server based on its policies. Monitoring sessions is part of accounting, but this option overstates the NAS's role in determining access.

Option C, "It enforces access to network services and sends accounting information to the AAA server," is correct. The NAS enforces access by applying policies (e.g., firewall rules, VLANs) based on the authorization attributes received from the AAA server. It also sends accounting information (e.g., session start/stop, data usage) to the AAA server to track user activity, fulfilling its

role in the accounting part of AAA.

Option D, "It authenticates legitimate users and uses policies to determine which resources each user is allowed to access," is incorrect. The NAS does not authenticate users; the AAA server performs authentication. The NAS also does not determine resource access; it enforces the policies provided by the AAA server.

The HPE Aruba Networking AOS-8 8.11 User Guide states:

"In the AAA framework, the Network Access Server (NAS), such as a Mobility Controller, acts as a client to the AAA server (e.g., a RADIUS server). The NAS forwards authentication requests from the user's device to the AAA server, enforces access to network services based on the authorization attributes returned by the server (e.g., user role, VLAN), and sends accounting information, such as session start and stop records, to the AAA server for tracking." (Page 310, AAA Framework Section)

Additionally, the HPE Aruba Networking ClearPass Policy Manager 6.11 User Guide notes:

"The NAS in the AAA framework, such as an Aruba Mobility Controller, does not authenticate users itself; it forwards authentication requests to the AAA server (ClearPass). After authentication, the NAS enforces access policies based on the server's response and sends accounting data to the AAA server to log user activity, such as session duration and data usage." (Page 280, NAS Role in AAA Section)

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HPE Aruba Networking AOS-8 8.11 User Guide, AAA Framework Section, Page 310.

HPE Aruba Networking ClearPass Policy Manager 6.11 User Guide, NAS Role in AAA Section, Page 280.

NEW QUESTION # 114

You are deploying an Aruba Mobility Controller (MC). What is a best practice for setting up secure management access to the ArubaOS Web UI

- A. Change the default 4343 port for the web UI to TCP 443.
- B. Make sure to enable HTTPS for the Web UI and select the self-signed certificate Installed in the factory.
- C. Install a CA-signed certificate to use for the Web UI server certificate.
- D. Avoid using external manager authentication for the Web UI.

Answer: C

Explanation:

For securing management access to the ArubaOS Web UI of an Aruba Mobility Controller (MC), it is a best practice to install a certificate signed by a Certificate Authority (CA). This ensures that communications between administrators and the MC are secured with trusted encryption, which greatly reduces the risk of man-in-the-middle attacks. Using a CA-signed certificate enhances the trustworthiness of the connection over self-signed certificates, which do not offer the same level of assurance. References: ArubaOS documentation on management access security.

NEW QUESTION # 115

Refer to the exhibit.



How can you use the thumbprint?

- A. Copy the thumbprint to other Aruba switches to establish a consistent SSH Key for all switches this will enable managers to connect to the switches securely with less effort
- B. install this thumbprint on management stations the stations can then authenticate with the thumbprint instead of admins having to enter usernames and passwords.
- C. Install this thumbprint on management stations to use as two-factor authentication along with manager usernames and passwords, this will ensure managers connect from valid stations
- D. When you first connect to the switch with SSH from a management station, make sure that the thumbprint matches to ensure that a man-in-the-middle (MITM) attack is not occurring

Answer: D

Explanation:

The thumbprint (also known as a fingerprint) of a certificate or SSH key is a hash that uniquely represents the public key contained within. When you first connect to the switch with SSH from a management station, you should ensure that the thumbprint matches what you expect. This is a security measure to confirm the identity of the device you are connecting to and to ensure that a man-in-the-middle (MITM) attack is not occurring. If the thumbprint matches the known good thumbprint of the switch, it is safe to proceed with the connection.

References:

SSH and network security protocols that discuss the importance of verifying the identity of devices before initiating a secure connection.

IT security guides that provide best practices for avoiding MITM attacks during SSH sessions.

NEW QUESTION # 116

How can hackers implement a man-in-the-middle (MITM) attack against a wireless client?

- A. The hacker connects a device to the same wireless network as the client and responds to the client's ARP requests with the hacker device's MAC address.
- B. The hacker uses spear-phishing to probe for the IP addresses that the client is attempting to reach. The hacker device then spoofs those IP addresses.
- C. The hacker uses a combination of software and hardware to jam the RF band and prevent the client from connecting to any wireless networks.
- D. The hacker runs an NMap scan on the wireless client to find its MAC and IP address. The hacker then connects to another network and spoofs those addresses.

Answer: A

Explanation:

A common method for hackers to perform a man-in-the-middle (MITM) attack on a wireless network is by ARP poisoning. The attacker connects to the same network as the victim and sends false ARP messages over the network. This causes the victim's device to send traffic to the attacker's machine instead of the legitimate destination, allowing the attacker to intercept the traffic.

NEW QUESTION # 117

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