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## **HP Aruba Certified Network Security Associate Exam Sample Questions (Q16-Q21):**

### **NEW QUESTION # 16**

A company has AOS-CX switches deployed in a two-tier topology that uses OSPF routing at the core.

You need to prevent ARP poisoning attacks. To meet this need, what is one technology that you could apply to user VLANs on

access layer switches? (Select two.)

- A. BPDU filtering
- B. BPDU guard (protection)
- **C. ARP inspection**
- **D. DHCPv4 snooping**
- E. OSPF passive interface

**Answer: C,D**

Explanation:

The scenario involves AOS-CX switches in a two-tier topology (access and core layers) using OSPF routing at the core. The goal is to prevent ARP poisoning attacks on user VLANs at the access layer switches, where end-user devices connect. ARP poisoning (also known as ARP spoofing) is an attack where a malicious device sends fake ARP messages to associate its MAC address with the IP address of another device (e.g., the default gateway), allowing the attacker to intercept traffic.

ARP Inspection (Dynamic ARP Inspection, DAI): This feature prevents ARP poisoning by validating ARP packets against a trusted database of IP-to-MAC bindings. On AOS-CX switches, ARP inspection uses the DHCP snooping binding table to verify that ARP messages come from legitimate devices. If an ARP packet does not match the binding table, it is dropped.

DHCPv4 Snooping: This feature protects against rogue DHCP servers and builds a binding table of legitimate IP-to-MAC mappings by snooping DHCP traffic. The binding table is used by ARP inspection to validate ARP packets. DHCP snooping must be enabled before ARP inspection can function effectively, as it provides the trusted data for validation.

Option A, "ARP inspection," is correct. ARP inspection (DAI) directly prevents ARP poisoning by ensuring that ARP packets are legitimate, making it a key technology for this purpose.

Option B, "OSPF passive interface," is incorrect. OSPF passive interface is used to prevent OSPF from sending routing updates on specific interfaces, typically to reduce routing protocol traffic on user-facing interfaces. It does not prevent ARP poisoning, which is a Layer 2 attack.

Option C, "BPDU guard (protection)," is incorrect. BPDU guard protects against spanning tree protocol (STP) attacks by disabling a port if it receives BPDUs (e.g., from an unauthorized switch). It does not address ARP poisoning, which is unrelated to STP.

Option D, "DHCPv4 snooping," is correct. DHCP snooping is a prerequisite for ARP inspection, as it builds the binding table used to validate ARP packets. It also protects against rogue DHCP servers, which can indirectly contribute to ARP poisoning by assigning incorrect IP addresses.

Option E, "BPDU filtering," is incorrect. BPDU filtering prevents a port from sending or receiving BPDUs, which can be used to protect against STP attacks, but it does not prevent ARP poisoning.

The HPE Aruba Networking AOS-CX 10.12 Security Guide states:

"To prevent ARP poisoning attacks on user VLANs, enable Dynamic ARP Inspection (DAI) on access layer switches. DAI validates ARP packets against the DHCP snooping binding table to ensure they come from legitimate devices. Use the command `ip arp inspection vlan <vlan-list>` to enable DAI on the specified VLANs. DHCP snooping must be enabled first with `dhcp-snooping` and `dhcp-snooping vlan <vlan-list>` to build the binding table used by DAI." (Page 145, ARP Inspection and DHCP Snooping Section) Additionally, the guide notes:

"DHCP snooping and ARP inspection work together to protect against Layer 2 attacks like ARP poisoning. DHCP snooping builds a trusted database of IP-to-MAC bindings, which ARP inspection uses to filter out malicious ARP packets." (Page 146, Best Practices Section)

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HPE Aruba Networking AOS-CX 10.12 Security Guide, ARP Inspection and DHCP Snooping Section, Page 145.

HPE Aruba Networking AOS-CX 10.12 Security Guide, Best Practices Section, Page 146.

### NEW QUESTION # 17

What is a benefit of Protected Management Frames (PMF), sometimes called Management Frame Protection (MFP)?

- A. PMF protects clients from DoS attacks based on forged de-authentication frames
- B. PMF prevents hackers from capturing the traffic between APs and Mobility Controllers.
- **C. PMF helps to protect APs and MCs from unauthorized management access by hackers.**
- D. PMF ensures traffic between APs and Mobility Controllers (MCs) is encrypted.

**Answer: C**

### NEW QUESTION # 18

Which attack is an example of social engineering?

- A. An attack exploits an operating system vulnerability and locks out users until they pay the ransom.
- **B. An email is used to impersonate a bank and trick users into entering their bank login information on a fake website page.**
- C. A hacker eavesdrops on insecure communications, such as Remote Desktop Program (RDP), and discovers login credentials.
- D. A user visits a website and downloads a file that contains a worm, which self-replicates throughout the network.

**Answer: B**

#### NEW QUESTION # 19

What is a vulnerability of an unauthenticated Diffie-Hellman exchange?

- A. Participants must agree on a passphrase in advance, which can limit the usefulness of Diffie-Hellman in practical contexts.
- **B. A hacker can replace the public values exchanged by the legitimate peers and launch an MITM attack.**
- C. Diffie-Hellman with elliptic curve values is no longer considered secure in modern networks, based on NIST recommendations.
- D. A brute force attack can relatively quickly derive Diffie-Hellman private values if they are able to obtain public values

**Answer: B**

#### NEW QUESTION # 20

You have been instructed to look in an AOS Security Dashboard's client list. Your goal is to find clients that belong to the company and have connected to devices that might belong to hackers.

Which client fits this description?

- A. MAC address: d8:50:e6:f3:6e:60; Client Classification: Interfering; AP Classification: Interfering
- B. MAC address: d8:50:e6:f3:70:ab; Client Classification: Interfering; AP Classification: Suspected Rogue
- C. MAC address: d8:50:e6:f3:6e:c5; Client Classification: Interfering; AP Classification: Neighbor
- **D. MAC address: d8:50:e6:f3:6d:a4; Client Classification: Authorized; AP Classification: Suspected Rogue**

**Answer: D**

Explanation:

The AOS Security Dashboard in an AOS-8 solution (Mobility Controllers or Mobility Master) provides a client list through its Wireless Intrusion Prevention (WIP) system, showing the classification of clients and the APs they are connected to. The goal is to identify clients that belong to the company (Authorized clients) and have connected to devices that might belong to hackers (rogue or suspected rogue APs).

Client Classification:

Authorized: A client that has successfully authenticated to an authorized AP and is part of the company's network (e.g., an employee device).

Interfering: A client that is not authenticated to the company's network and is considered external or potentially malicious.

AP Classification:

Authorized: An AP that is part of the company's network and managed by the MC.

Suspected Rogue: An AP that is not authorized and is suspected of being malicious, often because it exhibits suspicious behavior (e.g., a BSSID close to an authorized AP, indicating potential spoofing).

Neighbor: An AP that is not part of the company's network but is not connected to the wired network (e.g., a nearby AP from another organization).

Interfering: An AP that is not part of the company's network and may be causing interference, but is not necessarily malicious.

The requirement is to find a client that is Authorized (belongs to the company) and connected to a Suspected Rogue AP (might belong to hackers).

Option A: MAC address: d8:50:e6:f3:6d:a4; Client Classification: Authorized; AP Classification: Suspected Rogue This client is classified as "Authorized," meaning it belongs to the company, and it is connected to a "Suspected Rogue" AP, which might belong to hackers. This matches the requirement perfectly.

Option B: MAC address: d8:50:e6:f3:6e:c5; Client Classification: Interfering; AP Classification: Neighbor This client is "Interfering" (not a company client) and connected to a "Neighbor" AP, which is not considered a hacker's device (it's just a nearby AP).

Option C: MAC address: d8:50:e6:f3:6e:60; Client Classification: Interfering; AP Classification: Interfering This client is "Interfering" (not a company client) and connected to an "Interfering" AP, which is not necessarily a hacker's device (it may just be causing interference).

Option D: MAC address: d8:50:e6:f3:70:ab; Client Classification: Interfering; AP Classification: Suspected Rogue This client is "Interfering" (not a company client), although it is connected to a "Suspected Rogue" AP. It does not meet the requirement of being a

company client.

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

"The Security Dashboard's client list in ArubaOS shows the classification of each client and the AP it is connected to. An 'Authorized' client is one that has successfully authenticated to an authorized AP and is part of the company's network. A 'Suspected Rogue' AP is an unauthorized AP that exhibits suspicious behavior, such as a BSSID close to an authorized AP, indicating potential spoofing by a hacker. To identify security risks, look for authorized clients connected to suspected rogue APs, as this may indicate a company device has connected to a malicious AP." (Page 415, Security Dashboard Section) Additionally, the HPE Aruba Networking Security Guide notes:

"WIP classifies clients as 'Authorized' if they have authenticated to an authorized AP managed by the controller. A 'Suspected Rogue' AP is a potential threat, as it may be attempting to mimic a legitimate AP to lure clients. Identifying authorized clients connected to suspected rogue APs is critical for detecting potential attacks, such as man-in-the-middle attempts by hackers." (Page 78, WIP Classifications Section)

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HPE Aruba Networking AOS-8 8.11 User Guide, Security Dashboard Section, Page 415.

HPE Aruba Networking Security Guide, WIP Classifications Section, Page 78.

## NEW QUESTION # 21

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