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

QUESTION NO: 21
A company issues user certificates to domain computers using its Windows CA and the default user certificate template. You have set up HP Aruba Networking ClearPass Policy Manager (CPPM) to authenticate 802.1X clients with those certificates. However, during tests, you receive an error that authentication 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. Configure rules to strip the domain name from the username.
 B. Change the authentication method list to include both PEAP-MSCHAPV2 and EAP-TLS.
 C. Add the ClearPass Onboard local repository to the authentication source list.
 D. Remove EAP-TLS from the authentication method list and add TEAP there instead.

Correct Answer: A

To fix the issue where authentication fails because the usernames do not exist in the authentication source, you can configure rules in HP 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.

QUESTION NO: 22
You are deploying a virtual Data Collector for use with HP Aruba Networking ClearPass Device Insight (CDI). You have identified VLAN 101 in the data center as the VLAN to which the Data Collector should connect to receive its IP address and connect to HP Aruba Networking Central. Which Data Collector virtual ports should you tell the virtual adapter to connect to VLAN 101?

A. The one with the lowest MAC address.
 B. The one with the highest port ID.
 C. The one with the highest MAC address.
 D. The one with the lowest port ID.

Correct Answer: D

When deploying a virtual Data Collector for HP Aruba Networking ClearPass Device Insight (CDI), it is essential to ensure that the correct virtual port is connected to the designated VLAN. In this case, VLAN 101 is used to receive the IP address and connect to Aruba Central. The best practice is to use the virtual port with the lowest port ID. This is typically the primary port used for management and network connectivity in virtual environments, ensuring proper network integration and communication.

QUESTION NO: 23
You need to set up an HP Aruba Networking VIA solution for a customer who needs to support 2100 remote employees. The customer has downloaded their VIA connection profile from the VNIC. Only employees who authenticate with their domain credentials to HP Aruba Network Manager (CPNM) should be able to download the profile. (A RADIUS server group for CPNM is already set up on the VNIC.) How do you configure the VNIC to enforce that requirement?

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HP Aruba Certified Network Security Professional Exam Sample Questions (Q73-Q78):

NEW QUESTION # 73

A company has HPE Aruba Networking APs and AOS-CX switches, as well as HPE Aruba Networking ClearPass. The company wants CPPM to have HTTP User-Agent strings to use in profiling devices.

What can you do to support these requirements?

- A. Configure mirror sessions on the APs and switches to copy client HTTP traffic to CPPM.
- **B. Add the CPPM server's IP address to the IP helper list in all client VLANs on routing switches.**
- C. On the APs and switches, configure a redirect to ClearPass Guest in the role for devices being profiled.
- D. Schedule periodic subnet scans of all client subnets on CPPM.

Answer: B

Explanation:

To support the requirement for HPE Aruba Networking ClearPass Policy Manager (CPPM) to have HTTP User-Agent strings for profiling devices, you should add the CPPM server's IP address to the IP helper list in all client VLANs on routing switches. This configuration ensures that DHCP requests and other relevant client traffic are forwarded to CPPM, allowing it to capture HTTP User-Agent strings and use them for device profiling.

1. IP Helper Configuration: Adding CPPM to the IP helper list ensures that the switch forwards DHCP and other client traffic to CPPM, enabling it to gather necessary information for profiling.

2. User-Agent Strings: By receiving client traffic, CPPM can analyze HTTP headers and capture User-Agent strings, which provide valuable information about the client's device and browser.

3. Profiling Support: This approach supports the comprehensive profiling of devices, allowing CPPM to apply appropriate policies based on detailed device information.

Reference: Aruba ClearPass and AOS-CX switch configuration guides detail the process of setting up IP helper addresses and the benefits of forwarding client traffic to CPPM for enhanced profiling and policy enforcement.

NEW QUESTION # 74

You have configured an AOS-CX switch to implement 802.1X on edge ports. Assume ports operate in the default auth-mode.

VoIP phones are assigned to the

"voice" role and need to send traffic that is tagged for VLAN 12.

Where should you configure VLAN 12?

- A. As a trunk allowed VLAN on edge ports and the trunk native VLAN in the "voice" role
- **B. As the allowed trunk VLAN in the "voice" role (and not in the edge port settings)**
- C. As the trunk native VLAN on edge ports and the trunk native VLAN on the "voice" role
- D. As the trunk native VLAN in the "voice" role (and not in the edge port settings)

Answer: B

Explanation:

When configuring 802.1X authentication on edge ports of an AOS-CX switch and assigning VoIP phones to a "voice" role, the correct approach is to configure VLAN 12 as the allowed trunk VLAN in the "voice" role.

This setup ensures that traffic tagged for VLAN 12 is appropriately managed by the role applied to the VoIP phones. In AOS-CX switches, the role-based VLAN configuration allows for more granular control and ensures that the VoIP phones' traffic is handled correctly without altering the edge port settings, which typically operate with default settings for authentication.

NEW QUESTION # 75

HPE Aruba Networking ClearPass Device Insight (CPDI) could not classify some endpoints using system and user rules. Using machine learning, it did assign those endpoints to a cluster and discover a recommendation.

In which of these circumstances does CPDI automatically classify the endpoints based on that recommendation?

- A. The recommendation has 100% confidence, and it is based on 4 classified devices.
- B. The recommendation has 96% confidence, and it is based on 13 classified devices.
- C. The recommendation has 98% confidence, and it is based on 5 classified devices.
- D. The recommendation has 93% confidence, and it is based on 36 classified devices.

Answer: B

Explanation:

Comprehensive Detailed Explanation

HPE Aruba Networking ClearPass Device Insight (CPDI) uses machine learning to assign endpoints to clusters and provide classification recommendations. For CPDI to automatically classify endpoints, specific thresholds of confidence and supporting classified devices must be met.

The generally required thresholds are:

* Minimum Confidence Level: Typically, CPDI requires a recommendation confidence level of at least 95%.

* Minimum Supporting Devices: CPDI needs a cluster to include at least 10 classified devices to ensure the recommendation is statistically meaningful.

Analysis of Each Option:

* A. 96% confidence with 13 classified devices: Meets both thresholds (confidence > 95% and # 10 devices). CPDI will automatically classify endpoints in this scenario.

* B. 98% confidence with 5 classified devices: Confidence level is sufficient, but the cluster lacks the minimum required 10 classified devices. Automatic classification does not occur.

* C. 93% confidence with 36 classified devices: The confidence level is below the required 95%.

Automatic classification does not occur.

* D. 100% confidence with 4 classified devices: Confidence is ideal, but there are insufficient supporting classified devices.

Automatic classification does not occur.

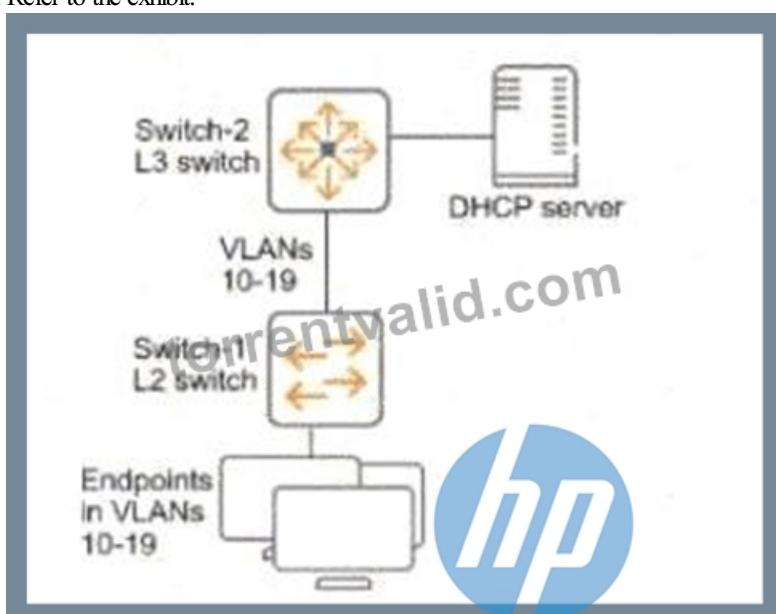
References

* HPE Aruba ClearPass Device Insight Deployment Guide.

* Aruba ClearPass Machine Learning and Device Classification Thresholds.

NEW QUESTION # 76

Refer to the exhibit.



You have verified that AOS-CX Switch-1 has constructed an IP-to-MAC binding table in VLANs 10-19.

Now you need to enable ARP inspection for the endpoint connected to Switch-1. What must you do first to prevent traffic

disruption?

- A. Configure ARP inspection on VLANs 10-19 on Switch-2.
- B. Create a static IP-to-MAC binding on Switch-1 for the DHCP server.
- C. Configure DHCP snooping on VLANs 10-19 on Switch-2.
- D. **Configure Switch-1 uplinks as trusted ARP inspection ports.**

Answer: D

Explanation:

Dynamic ARP Inspection (DAI):

- * ARP inspection verifies ARP packets against a trusted IP-to-MAC binding table to prevent ARP spoofing attacks.
- * DHCP snooping is required to construct the IP-to-MAC binding table dynamically.
- * To avoid traffic disruption, uplink ports that connect to trusted switches, DHCP servers, or routers must be explicitly configured as trusted ports for ARP inspection.

Steps to Prevent Traffic Disruption:

- * Trust the Uplinks: ARP inspection must treat uplink ports as trusted to allow ARP traffic from legitimate DHCP servers and upstream switches.
- * Enable DHCP Snooping: DHCP snooping must be enabled on Switch-2 to ensure consistent IP-to-MAC bindings upstream.

Why the Answer is Correct:

- * Option A: Incorrect. ARP inspection on Switch-2 is important but not required first to prevent disruption on Switch-1.
- * Option B: Incorrect. DHCP snooping must be enabled upstream eventually, but this alone will not stop immediate traffic disruption on Switch-1.
- * Option C: Correct. Switch-1 uplinks must be trusted ARP inspection ports first to allow legitimate upstream traffic and prevent ARP disruption.
- * Option D: Incorrect. Static bindings are not required if DHCP snooping is enabled, and they are manual, limiting scalability.

Conclusion:

To avoid traffic disruption, configure Switch-1 uplinks as trusted ARP inspection ports to ensure valid ARP traffic can pass upstream and downstream.

NEW QUESTION # 77

A company wants you to create a custom device fingerprint on CPPM with rules for profiling a group of specialized devices. What is one requirement?

- A. **Connecting a known device of this type and getting it discovered in CPPM's Endpoints Repository.**
- B. Pre-defining the desired attributes and rules in an XML format file.
- C. Disabling the "Automatically download Endpoint Profiler Fingerprints" feature in cluster-wide parameters.
- D. Enabling HPE Aruba Networking ClearPass Device Insight integration with the correct Data Collector token.

Answer: A

Explanation:

* Custom Device Fingerprinting on CPPM:

- * To create a custom fingerprint, you first need to connect a known device of that type to the network.
- * CPPM will discover the device in its Endpoints Repository, allowing you to analyze its attributes (e.g., MAC OUI, DHCP options) and create custom profiling rules.

* Option Analysis:

- * Option A: Correct. Discovering a known device in the Endpoints Repository is a prerequisite for creating accurate custom fingerprint rules.
- * Option B: Incorrect. CPDI integration is not required for custom fingerprints on CPPM.
- * Option C: Incorrect. XML rules are not pre-defined; they are created dynamically based on observed attributes.
- * Option D: Incorrect. The "Automatically download Endpoint Profiler Fingerprints" setting is unrelated to custom profiling.

NEW QUESTION # 78

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