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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 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. 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.

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

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.

QUESTION NO: 22
You are deploying a virtual Data Collector for use with HPE Aruba Networking ClearPass Device Insight (CPDI). 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 HPE Aruba Networking Central. Which Data Collector virtual ports should you tell the virtual admin 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

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

When deploying a virtual Data Collector for HPE Aruba Networking ClearPass Device Insight (CPDI), 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 HPE Aruba Networking VSA solution for a customer who needs to support 2100 remote employees. The customer's downloaded their VSA connection profile from the VPNIC. Only employees who authenticate with their domain credentials to HPE Aruba Net Manager (CPM) should be able to download the profile. (A RADIUS server group for CPM is already set up on the VPNIC.) How do you configure the VPNIC to enforce that requirement?

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HP Aruba Certified Network Security Professional Exam Sample Questions (Q12-Q17):

NEW QUESTION # 12

A company wants you to integrate HPE Aruba Networking ClearPass Policy Manager (CPPM) with HPE Aruba Networking ClearPass Device Insight (CPDI).

What is one aspect of the integration that you should explain?

- A. CPDI must have security analysis disabled on it for the integration to be successful.
- B. CPPM no longer supports any Device Profiler features and relies on CPDI for this profile information.
- C. CPDI must be configured as an audit server on CPPM for the integration to be successful.
- **D. CPPM can submit profile information to CPDI, but if CPDI derives a different classification, CPDI takes precedence.**

Answer: D

Explanation:

When integrating ClearPass Policy Manager (CPPM) with ClearPass Device Insight (CPDI), it is important to understand how device profiling and classification work between the two solutions:

1. CPPM and CPDI Integration Overview

* CPPM is primarily used for access control and policy enforcement, while CPDI specializes in device profiling and classification through advanced analytics and machine learning.

* Integration allows CPPM to leverage CPDI's enhanced profiling capabilities for more accurate device identification and policy enforcement.

2. Detailed Analysis of Each Option

A: CPPM no longer supports any Device Profiler features and relies on CPDI for this profile information:

* Incorrect: CPPM still supports its own basic device profiling features and can operate independently.

However, when integrated with CPDI, CPPM can use CPDI's advanced profiling capabilities as a supplement.

B: CPDI must be configured as an audit server on CPPM for the integration to be successful:

* Incorrect: CPDI is not configured as an audit server on CPPM. Integration is achieved via API integration and communication between the two solutions, not through audit server settings.

C: CPDI must have security analysis disabled on it for the integration to be successful:

* Incorrect: Security analysis does not need to be disabled for integration. In fact, CPDI's security analysis enhances the classification process by identifying anomalous behaviors.

D: CPPM can submit profile information to CPDI, but if CPDI derives a different classification, CPDI takes precedence:

* Correct:

* CPPM and CPDI exchange profile data, but CPDI has more advanced device classification capabilities due to its machine learning-based engine.

* When CPDI derives a different classification than CPPM, CPDI's classification is considered more accurate and takes precedence.

* This ensures that policies are based on the most reliable device classification.

References

* Aruba ClearPass Policy Manager and Device Insight Integration Guide.

* ClearPass Device Profiling and Classification Documentation.

* Best Practices for CPPM and CPDI Integration in Network Security.

NEW QUESTION # 13

As part of setting up an HPE Aruba Networking ClearPass Onboard solution for wireless clients, you created Network Settings, a Configuration Profile, and a Provisioning Settings object in ClearPass Onboard. You also ran the ClearPass Onboard Service Only Template on ClearPass Policy Manager (CPPM).

You now need to ensure that only domain users are authenticated and allowed to log into the ClearPass Onboard portal.

Which component should you edit?

- A. The 802.1X services on CPPM used for wireless clients
- B. The Provisioning profile on ClearPass Onboard
- C. The Network Settings on ClearPass Onboard

- **D. The ClearPass Onboard Service Pre-Auth service on CPPM**

Answer: D

Explanation:

Access to the Onboard portal is controlled by a dedicated Pre-Auth service in ClearPass Policy Manager:

* The "ClearPass Onboard Service Pre-Auth" service defines which authentication sources (e.g., AD domain, local DB, guest) are used when users log into the Onboard web portal.

* To restrict access to domain users only, you edit this Pre-Auth service to use only the Active Directory auth source (and appropriate authorization checks, such as group membership).

Exam and configuration references for ClearPass Onboard clearly identify the Onboard Pre-Auth service as the place where you control who can log into the Onboard portal.

* Network Settings and Provisioning profiles in Onboard govern SSID, profiles, and device configuration, not portal user authentication.

* The 802.1X services for wireless control network access after onboarding, not login to the onboarding portal itself.

Therefore, to limit the portal to domain users, you should edit the ClearPass Onboard Service Pre-Auth service on CPPM # Option B.

NEW QUESTION # 14

A company has HPE Aruba Networking APs managed by HPE Aruba Networking Central. You have set up a WLAN to enforce WPA3 with 802.1X authentication.

What happens if the client fails authentication?

- A. The AP assigns the client to the WLAN's default role.
- B. The AP assigns the client to the WLAN's critical role.
- **C. The AP drops the client because authentication aborts.**
- D. The AP assigns the client to the WLAN's initial role.

Answer: C

Explanation:

When WPA3 with 802.1X authentication is enforced on an HPE Aruba Networking WLAN, the authentication process strictly adheres to security standards. Here's how the process works:

1. 802.1X Authentication Workflow in WPA3

* The client must provide valid credentials (such as certificates or username/password) to authenticate with the RADIUS server via 802.1X.

* If the client fails authentication (e.g., due to invalid credentials or lack of proper configuration), the 802.1X handshake fails, and the AP terminates the connection.

2. Role Assignment in WLANs

* **Default Role:** The role assigned to authenticated clients after a successful 802.1X authentication. It is not applied to unauthenticated clients.

* **Critical Role:** This is a fallback role applied when there are issues communicating with the RADIUS server, not when authentication fails.

* **Initial Role:** A temporary role assigned to clients before authentication completes. However, this role is removed once the authentication process determines failure.

3. Behavior Upon Authentication Failure

* In the case of an authentication failure, the client does not get assigned to any role (default, critical, or initial) because it does not meet the conditions for network access.

* The client is dropped immediately, and no further communication is allowed until reauthentication is attempted.

Explanation of Each Option

* A. The AP assigns the client to the WLAN's default role:

* Incorrect: The default role applies only after successful authentication, not in case of authentication failure.

* B. The AP drops the client because authentication aborts:

* Correct: If the client fails authentication, the AP terminates the connection without assigning any roles.

* C. The AP assigns the client to the WLAN's critical role:

* Incorrect: The critical role is used when the AP cannot reach the RADIUS server, not when authentication fails.

* D. The AP assigns the client to the WLAN's initial role:

* Incorrect: The initial role is applied during the authentication process, but it is not retained after a failed authentication.

References

* Aruba Central WLAN Configuration Guide.

- * WPA3 and 802.1X Authentication Best Practices in Aruba Networks.
- * Aruba AP Role Assignment Workflow Documentation.

NEW QUESTION # 15

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

Answer: A

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.

NEW QUESTION # 16

An AOS-CX switch has been configured to implement UBT to two HPE Aruba Networking gateways that implement VRRP on the users' VLAN. What correctly describes how the switch tunnels UBT users' traffic to those gateways?

- A. The switch always sends all users' traffic to the gateway assigned as the active device designed gateway.
- B. The switch always sends all users' traffic to the primary gateway configured in the UBT zone.
- C. The switch always load shares the users' traffic across both gateways.
- D. The switch always sends the users' traffic to the VRRP master.

Answer: B

Explanation:

* User-Based Tunneling (UBT) with VRRP:

* UBT allows traffic from authenticated users to be tunneled to an HPE Aruba Networking gateway.

* In the case of VRRP, where two gateways are configured for redundancy, the AOS-CX switch will always send the traffic to the primary gateway defined in the UBT zone configuration.

* The VRRP state (master/backup) does not impact the UBT decision; the UBT primary configuration takes precedence.

* Option Analysis:

* Option A: Incorrect. UBT does not strictly follow the VRRP master; it adheres to the UBT primary gateway configuration.

* Option B: Correct. The switch tunnels all traffic to the primary gateway configured in the UBT zone.

* Option C: Incorrect. UBT does not load-share traffic between gateways.

* Option D: Incorrect. UBT uses the primary gateway configured in the UBT zone, not dynamically determined active devices.

NEW QUESTION # 17

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