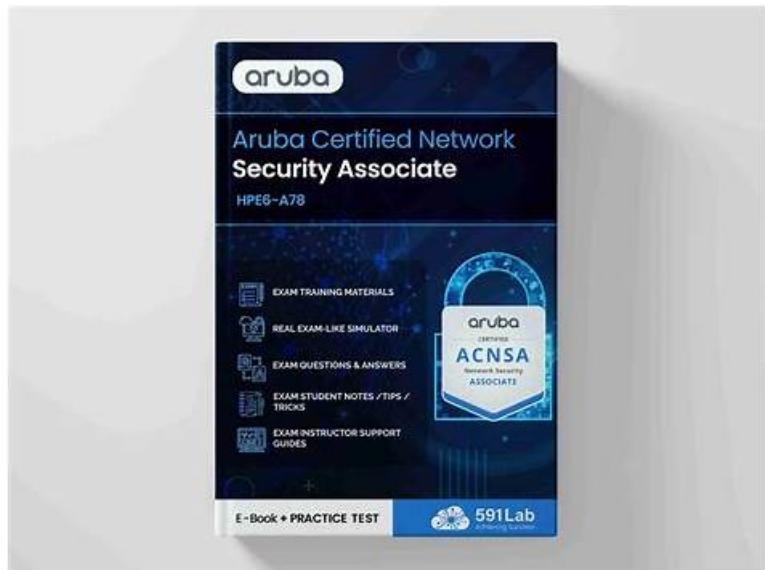


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HP Aruba Certified Network Security Associate Exam Sample Questions (Q151-Q156):

NEW QUESTION # 151

Refer to the exhibit.

This Aruba Mobility Controller (MC) should authenticate managers who access the Web UI to ClearPass Policy Manager (CPPM). ClearPass admins have asked you to use RADIUS and explained that the MC should accept managers' roles in Aruba-Admin-Role VSAs. Which setting should you change to follow Aruba best security practices?

- A. Disable local authentication
- B. Change the default role to "guest-provisioning"
- C. Change the local user role to read-only
- D. Clear the MSCHAP check box

Answer: A

Explanation:

For following Aruba best security practices, the setting you should change is to disable local authentication. When integrating with an external RADIUS server like ClearPass Policy Manager (CPPM) for authenticating administrative access to the Mobility Controller (MC), it is a best practice to rely on the external server rather than the local user database. This practice not only centralizes the management of user roles and access but also enhances security by leveraging CPPM's advanced authentication mechanisms.

:

Aruba Networks official best practice documentation, which recommends centralized authentication for administrative access. Security standards and guidelines that promote the use of external RADIUS servers for authentication purposes.

NEW QUESTION # 152

Refer to the exhibits.

An admin has created a WLAN that uses the settings shown in the exhibits (and has not otherwise adjusted the settings in the AAA profile). A client connects to the WLAN. Under which circumstances will a client receive the default role assignment?

- A. The client has attempted 802.1X authentication, but failed to maintain a reliable connection, leading to a timeout error.
- B. The client has attempted 802.1X authentication, but the MC could not contact the authentication server.
- C. The client has passed 802.1X authentication, and the authentication server did not send an Aruba-User-Role VSA.
- D. The client has passed 802.1X authentication, and the value in the Aruba-User-Role VSA matches a role on the MC.

Answer: C

Explanation:

The exhibit shows the configuration of a WLAN on an AOS-8 Mobility Controller (MC) with the following settings:

Key management: WPA3-Enterprise (indicating 802.1X authentication).

Use CNSA suite: Unchecked (using standard encryption, not the Commercial National Security Algorithm suite).

Key size: 128 bits (standard for AES-GCM in WPA3).

Reauth interval: 1440 minutes (24 hours, the interval for re-authentication).

Machine authentication: Disabled (only user authentication is required).

Blacklisting: Disabled (clients are not blacklisted after failed attempts).

The question states that the AAA profile settings have not been adjusted, meaning the default roles (e.g., initial role, logon role, 802.1X default role) are not specified in the exhibit and are assumed to be the system defaults (e.g., "logon" for the initial and logon roles, and a default role like "guest" for the 802.1X default role). The question asks under which circumstances a client will receive the "default role assignment," which refers to the 802.1X default role configured in the AAA profile for the WLAN.

802.1X Authentication Process in AOS-8:

When a client connects to a WPA3-Enterprise WLAN, it starts in the initial role (typically "logon") to allow basic connectivity (e.g., DHCP, DNS).

During 802.1X authentication, the client is placed in the logon role to allow communication with the authentication server (e.g., ClearPass Policy Manager, CPPM).

If authentication succeeds, the client is assigned a role:

If the authentication server (e.g., CPPM) sends an Aruba-User-Role VSA with a role that exists on the MC, the client is assigned that role.

If no Aruba-User-Role VSA is sent, the client is assigned the 802.1X default role configured in the AAA profile for the WLAN.

If authentication fails or the server is unreachable, the client may be assigned a different role (e.g., a critical role, if configured) or denied access.

Option A, "The client has attempted 802.1X authentication, but the MC could not contact the authentication server," is incorrect. If the MC cannot contact the authentication server (e.g., due to a timeout), the client does not receive the 802.1X default role. Instead, the MC may apply a critical role (if configured) or deny access, depending on the configuration. The 802.1X default role is applied only after successful authentication.

Option B, "The client has passed 802.1X authentication, and the authentication server did not send an Aruba-User-Role VSA," is correct. If the client successfully authenticates via 802.1X and the authentication server (e.g., CPPM) does not send an Aruba-User-Role VSA, the MC assigns the client the 802.1X default role configured in the AAA profile for the WLAN. This is the "default role assignment" referred to in the question.

Option C, "The client has attempted 802.1X authentication, but failed to maintain a reliable connection, leading to a timeout error," is

incorrect. A timeout error during authentication (e.g., the client fails to respond to EAP messages) typically results in an authentication failure, not a successful authentication. The client would not receive the 802.1X default role; it might be denied access or placed in a different role (e.g., a pre-authentication role).

Option D, "The client has passed 802.1X authentication, and the value in the Aruba-User-Role VSA matches a role on the MC," is incorrect. If the authentication server sends an Aruba-User-Role VSA with a role that exists on the MC, the client is assigned that specific role, not the 802.1X default role.

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

"After a client successfully authenticates via 802.1X, the Mobility Controller assigns a role to the client. If the authentication server (e.g., a RADIUS server) sends an Aruba-User-Role VSA with a role that exists on the controller, the client is assigned that role. If no Aruba-User-Role VSA is sent in the Access-Accept message, the client is assigned the 802.1X default role configured in the AAA profile for the WLAN. For example, if the AAA profile specifies 'guest' as the 802.1X default role, the client will be assigned the 'guest' role." (Page 305, Role Assignment Section) Additionally, the HPE Aruba Networking Wireless Security Guide notes: "In WPA3-Enterprise with 802.1X authentication, the default role assignment occurs when a client successfully authenticates but the authentication server does not specify a role via the Aruba-User-Role VSA. In this case, the client receives the 802.1X default role defined in the AAA profile, such as 'guest' or another role configured by the administrator." (Page 42, 802.1X Role Assignment Section)

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HPE Aruba Networking AOS-8 8.11 User Guide, Role Assignment Section, Page 305.

HPE Aruba Networking Wireless Security Guide, 802.1X Role Assignment Section, Page 42.

NEW QUESTION # 153

The first exhibit shows roles on the MC, listed in alphabetic order. The second and third exhibits show the configuration for a WLAN to which a client connects. Which description of the role assigned to a user under various circumstances is correct?

□

- A. A user authenticates successfully with 802.1X, and the RADIUS Access-Accept includes an Aruba-User-Role VSA set to "employee1." The client's role is "employee1."
- B. A user authenticates successfully with 802.1X, and the RADIUS Access-Accept includes an Aruba-User-Role VSA set to "employee." The client's role is "guest."
- C. A user authenticates successfully with 802.1 X, and the RADIUS Access-Accept includes an Aruba-User-Role VSA set to "employee1." The client's role is "guest."
- D. A user fails 802.1X authentication. The client remains connected, but is assigned the "guest" role.

Answer: A

Explanation:

In a WLAN setup that uses 802.1X for authentication, the role assigned to a user is determined by the result of the authentication process. When a user successfully authenticates via 802.1X, the RADIUS server may include a Vendor-Specific Attribute (VSA), such as the Aruba-User-Role, in the Access-Accept message.

This attribute specifies the role that should be assigned to the user. If the RADIUS Access-Accept message includes an Aruba-User-Role VSA set to "employee1", the client should be assigned the "employee1" role, as per the VSA, and not the default "guest" role. The "guest" role would typically be a fallback if no other role is specified or if the authentication fails.

NEW QUESTION # 154

Refer to the exhibit, which shows the settings on the company's MCs.

- Mobility Controller

Dashboard General Admin AirWave CPSec Certificates

Configuration

WLANs v Control Plane Security

Roles & Policies Enable CP Sec

Access Points Enable auto cert provisioning

You have deployed about 100 new Aruba 335-APs. What is required for the APs to become managed?

- A. configuring a PAPI key that matches on the APs and MCs
- B. approving the APs as authorized APs on the AP whitelist
- C. installing self-signed certificates on the APs
- D. installing CA-signed certificates on the APs

Answer: B

Explanation:

Based on the exhibit, which shows the settings on the company's Mobility Controllers (MCs), with 'Control Plane Security' enabled and 'Enable auto cert provisioning' available, new Aruba 335-APs require approval on the MC to become managed. This is commonly done by adding the APs to an authorized AP whitelist, after which they can be automatically provisioned with certificates generated by the MC.

NEW QUESTION # 155

Refer to the exhibit.

□ An admin has created a WLAN that uses the settings shown in the exhibits (and has not otherwise adjusted the settings in the AAA profile) A client connects to the WLAN Under which circumstances will a client receive the default role assignment?

- A. The client has attempted 802.1X authentication, but the MC could not contact the authentication server
- B. The client has passed 802.1X authentication, and the value in the Aruba-User-Role VSA matches a role on the MC
- **C. The client has passed 802.1X authentication and the authentication server did not send an Aruba-User-Role VSA**
- D. The client has attempted 802.1X authentication, but failed to maintain a reliable connection, leading to a timeout error

Answer: C

Explanation:

In the context of an Aruba Mobility Controller (MC) configuration, a client will receive the default role assignment if they have passed 802.1X authentication and the authentication server did not send an Aruba-User-Role Vendor Specific Attribute (VSA). The default role is assigned by the MC when a client successfully authenticates but the authentication server provides no specific role instruction. This behavior ensures that a client is not left without any role assignment, which could potentially lead to a lack of network access or access control. This default role assignment mechanism is part of Aruba's role-based access control, as documented in the ArubaOS user guide and best practices.

NEW QUESTION # 156

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