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Guarantee

Vendor:HP

Exam Code:HPE6-A84

Exam Name:Aruba Certified Network Security Expert
Written

Version:Demo

QUESTION 1

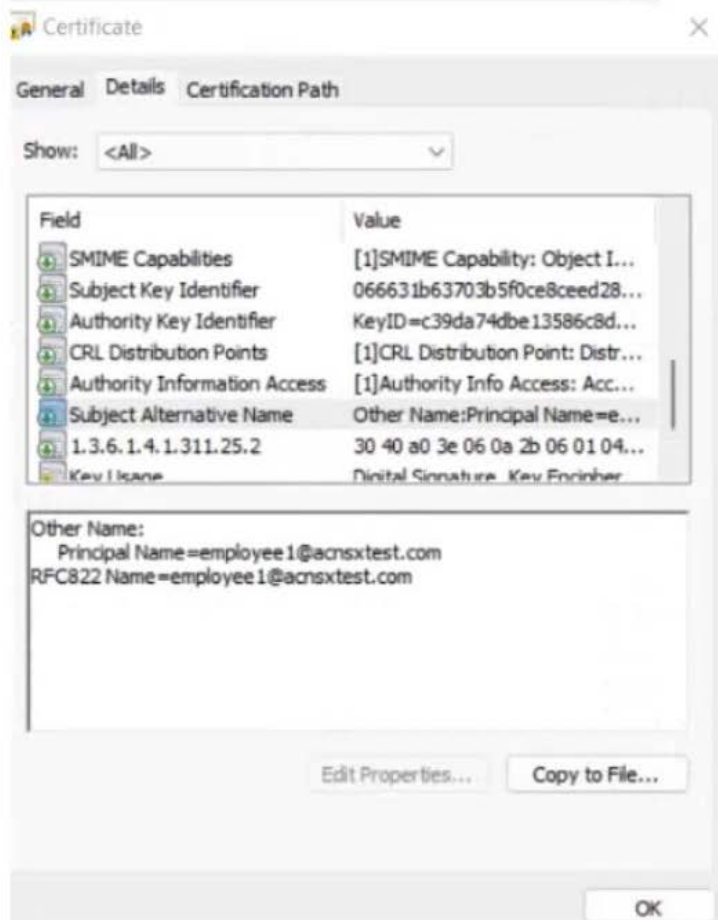
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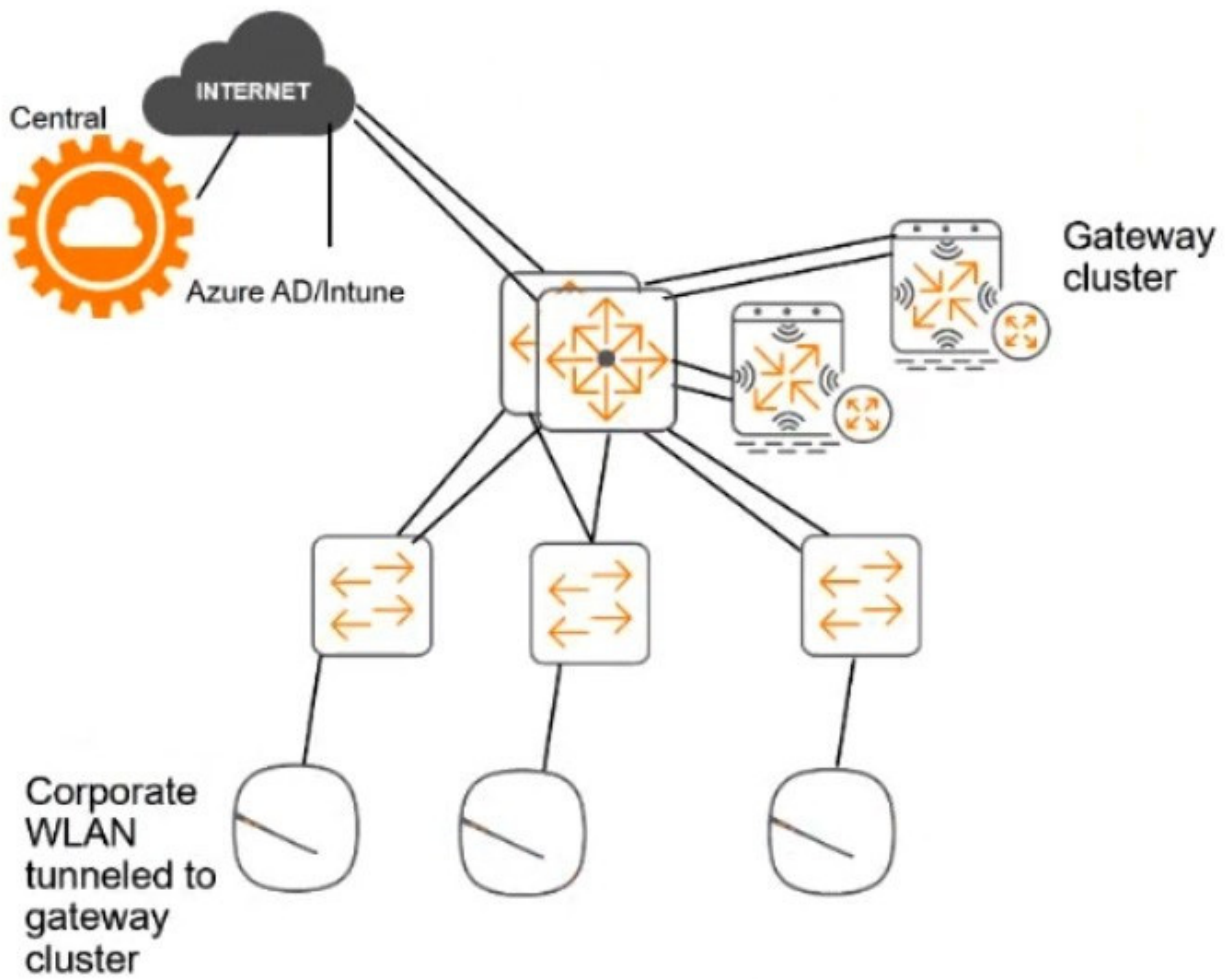
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The customer needs a secure way for users to enroll their new wireless clients in Intune. You are recommending a new WLAN that will provide the users with limited access for the enrollment.

You have set up captive portal for clients on this WLAN to a web page with instructions for enrolling devices. You will need to add several hostnames to the captive portal allowlist manually.

What is one of those hostnames?

- A. The hostname used by ClearPass Policy Manager's RADIUS services
- B. The ClearPass Onboard hostname referenced in an Onboard provisioning profile
- C. The ClearPass Onboard hostname referenced in Intune SCEP profiles
- D. The hostname used by the on-prem domain controllers

Correct Answer: B

QUESTION 2

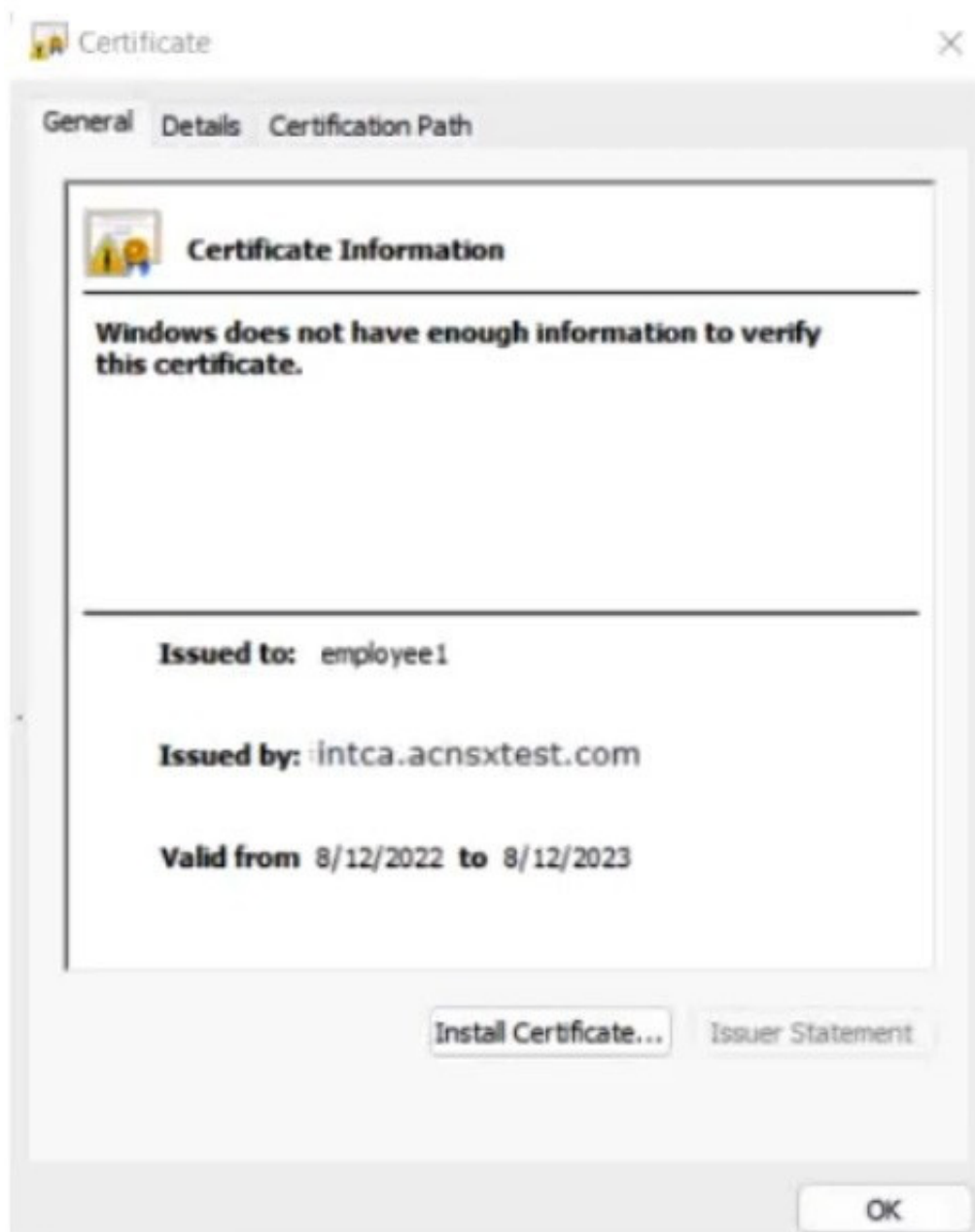
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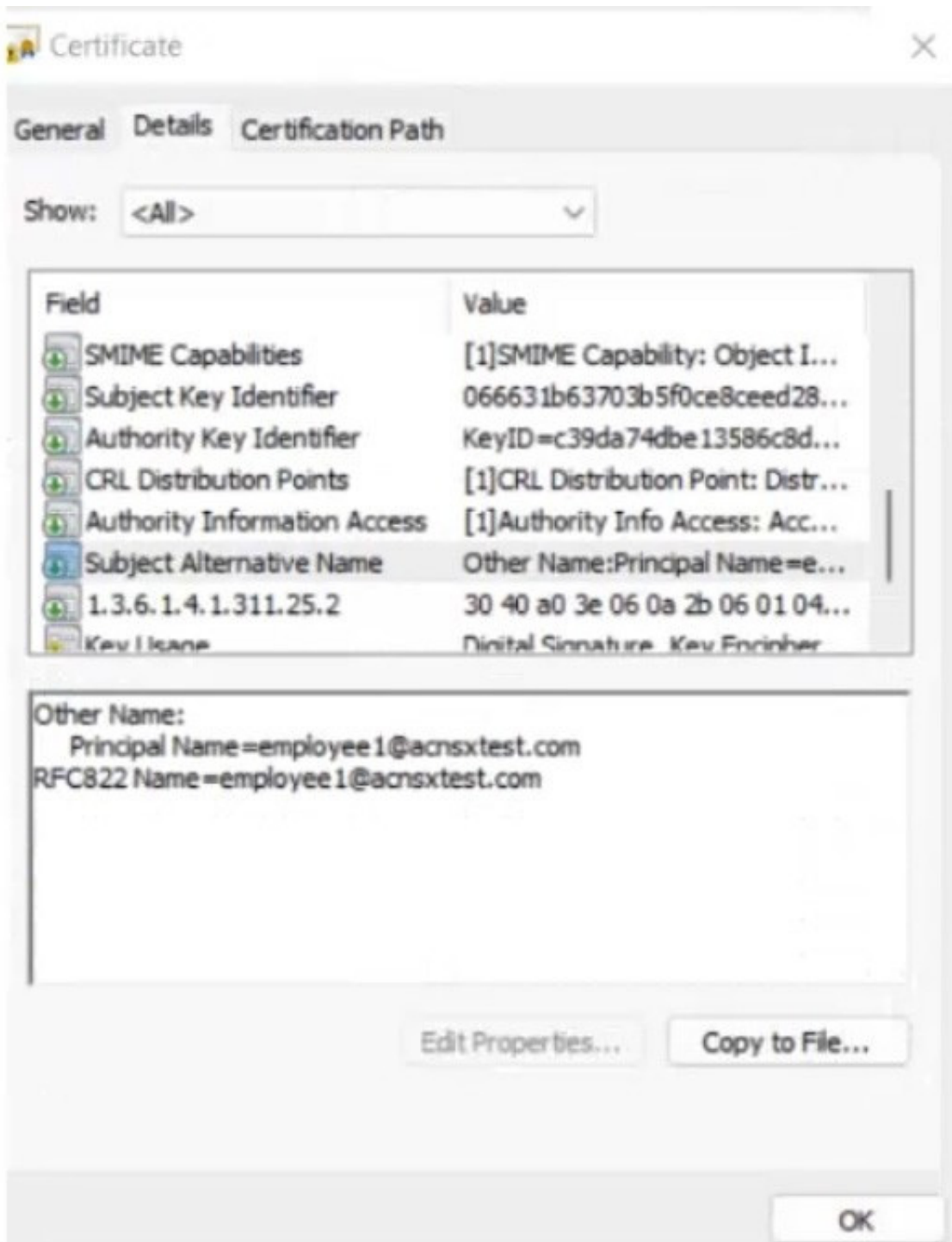
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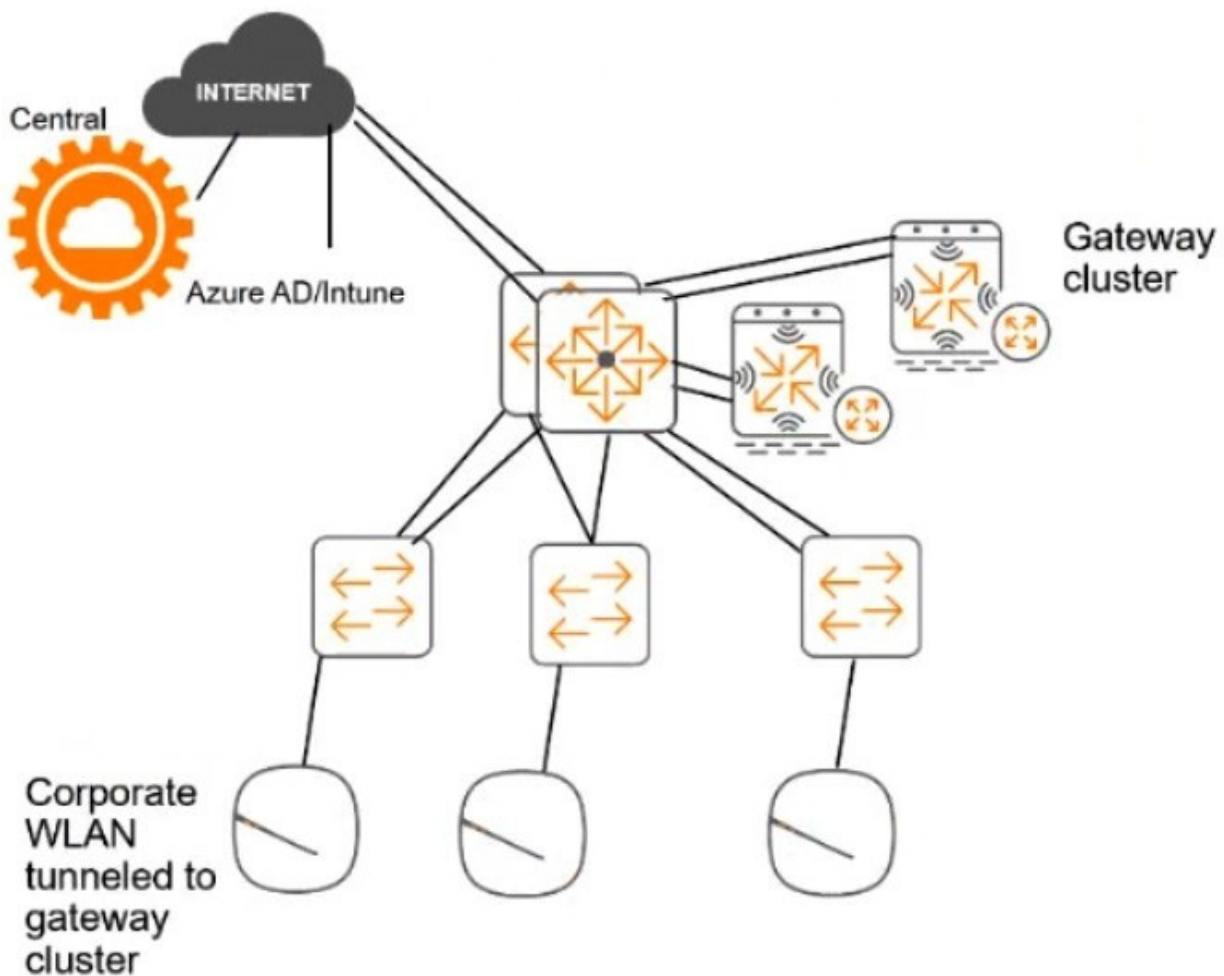
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You have created a role mapping policy as shown in the exhibits below.

Policy	Mapping Rules	Summary
Policy:		
Policy Name:	written-exam	
Description:		
Default Role:	[Other]	
Mapping Rules:		
Rules Evaluation Algorithm:	Evaluate all	
Conditions	Role Name	
1. (Certificate:Subject-CN EQUALS ClearPass Intune Certificate Authority (Signing))	mobile-onboarded	
2. (Authorization:UniversityAD:Groups EQUALS_IGNORE_CASE Medical)	medical-staff	
3. (Authorization:UniversityAD:Groups EQUALS_IGNORE_CASE Reception)	reception-staff	
4. (Authentication:TEAP-Method-1-Status EQUALS Success)	domain-computer	

What is one change that you need to make to this policy?

A. In rule 1 change Subject-CN to Issuer-CN.

B. Move rules 2 and 3 to the top of the list.

C. Change the rules evaluation mechanism to first applicable.

D. Change the default role to '\\mobile-onboarded*

Correct Answer: A

QUESTION 4

Refer to the scenario.

A customer requires these rights for clients in the "medical-mobile" AOS firewall role on Aruba Mobility Controllers (MCs):

1.
Permitted to receive IP addresses with DHCP
 2.
Permitted access to DNS services from 10.8.9.7 and no other server
 3.
Permitted access to all subnets in the 10.1.0.0/16 range except denied access to 10.1.12.0/22
 4.
Denied access to other 10.0.0.0/8 subnets
 5.
Permitted access to the Internet
 6.
Denied access to the WLAN for a period of time if they send any SSH traffic
 7.
Denied access to the WLAN for a period of time if they send any Telnet traffic
 8.
Denied access to all high-risk websites
- External devices should not be permitted to initiate sessions with "medical-mobile" clients, only send return traffic.
- The exhibits below show the configuration for the role.

medical-mobile					Policies	Bandwidth	Captive Portal	More	Show Basic View
NAME	RULES COUNT	TYPE	POLICY USAGE	DESCRIPTION					
global-sacl	0	session	logon, guest, ap-role, stat...	--					
apprf-medical-mobile-s...	1	session	medical-mobile	--					
medical-mobile	8	session	medical-mobile	--					

medical-mobile > Policy > apprf-medical-mobile-sacl Rules							Drag rows to re-order
IP VERSION	SOURCE	DESTINATION	SERVICE/APPLICATION	ACTION	DESCRIPTION		
ipv4	user	any	web-cc-reputation high-risk	deny_opt	--		

medical-mobile					Policies	Bandwidth	Captive Portal	More	Show Basic View
NAME	RULES COUNT	TYPE	POLICY USAGE	DESCRIPTION					
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IP VERSION	SOURCE	DESTINATION	SERVICE/APPLICATION	ACTION	DESCRIPTION		
ipv4	any	any	svc-dhcp	permit	--		
ipv4	user	10.8.9.7	svc-dns	permit	--		
ipv4	user	10.1.12.0 255.255.252.0	any	deny_opt	--		
ipv4	user	10.1.0.0 255.255.0.0	any	permit	--		
ipv4	user	10.0.0.0 255.0.0.0	any	deny_opt	--		
ipv4	user	any	svc-telnet	deny_opt	--		
ipv4	user	any	svc-ssh	deny_opt	--		
ipv4	any	any	any	permit	--		

There are multiple issues with the configuration.

What is one of the changes that you must make to the policies to meet the scenario requirements? (In the options, rules in a policy are referenced from top to bottom. For example, "medical-mobile" rule 1 is "ipv4 any any svc-dhcp permit," and rule 8 is "ipv4 any any any permit".)

- A. In the "medical-mobile" policy, change the source in rule 1 to "user."
- B. In the "medical-mobile" policy, change the subnet mask in rule 3 to 255.255.248.0.
- C. In the "medical-mobile" policy, move rules 6 and 7 to the top of the list.
- D. Move the rule in the "apprf-medical-mobile-sacl" policy between rules 7 and 8 in the "medical-mobile" policy.

Correct Answer: C

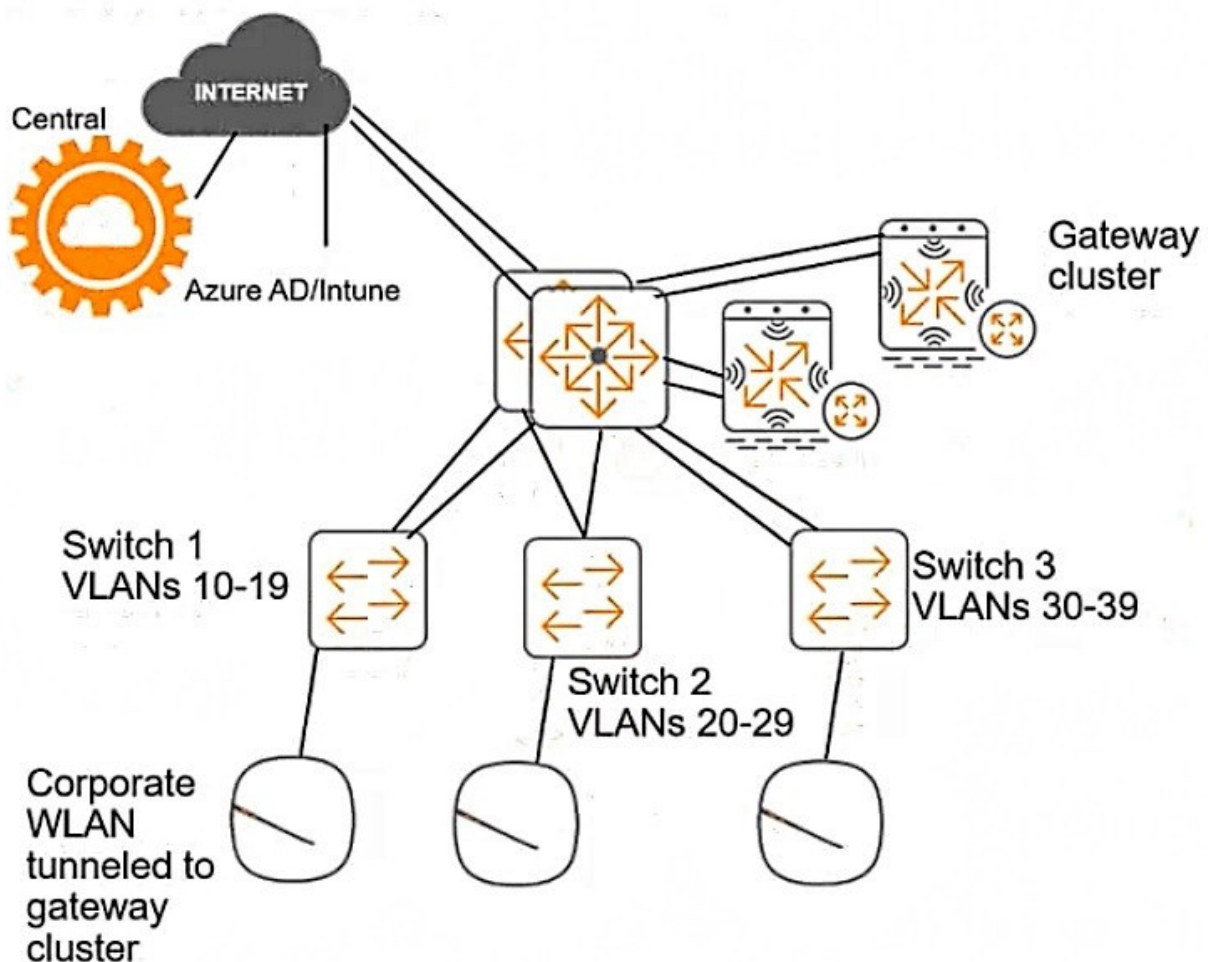
Rules 6 and 7 in the "medical-mobile" policy are used to deny access to the WLAN for a period of time if the clients send any SSH or Telnet traffic, as required by the scenario. However, these rules are currently placed below rule 5, which permits access to the Internet for any traffic. This means that rule 5 will override rules 6 and 7, and the clients will not be denied access to the WLAN even if they send SSH or Telnet traffic. To fix this issue, rules 6 and 7 should be moved to the top of the list, before rule 5. This way, rules 6 and 7 will take precedence over rule 5, and the clients will be denied access to the WLAN if they send SSH or Telnet traffic, as expected.

QUESTION 5

Refer to the scenario.

This customer is enforcing 802.1X on AOS-CX switches to Aruba ClearPass Policy Manager (CPPM). The customer wants switches to download role settings from CPPM. The "reception-domain" role must have these settings:

- Assigns clients to VLAN 14 on switch 1, VLAN 24 on switch 2, and so on.
 - Filters client traffic as follows:
 - Clients are permitted full access to 10.1.5.0/24 and the Internet
 - Clients are denied access to 10.1.0.0/16
- The switch topology is shown here:



How should you configure the VLAN setting for the reception role?

- A. Assign a consistent name to VLAN 14, 24, or 34 on each access layer switch and reference that name in the enforcement profile VLAN settings.
- B. Configure the enforcement profile as a downloadable role, but specify only the role name and leave the VLAN undefined. Then define a 'reception' role with the correct VLAN setting on each individual access layer switch.
- C. Assign a number-based ID to the access layer switches. Then use this variable in the enforcement profile VLAN settings: %(NAS-ID)4.
- D. Create a separate enforcement profile with a different VLAN ID for each switch. Add all profiles to the profile list in the appropriate enforcement policy rule.

Correct Answer: A

According to the AOS-CX User Guide, one way to configure the VLAN setting for the reception role is to assign a consistent name to VLAN 14, 24, or 34 on each access layer switch and reference that name in the enforcement profile VLAN settings. This way, the switches can download the role settings from CPPM and apply the correct VLAN based on the name, rather than the ID. For example, the enforcement profile VLAN settings could be:

```
vlan-name reception-vlan
```

And the VLAN configuration on each switch could be:

```
vlan 14  
name reception-vlan  
exit
```

```
vlan 24  
name reception-vlan  
exit
```

```
vlan 34  
name reception-vlan  
exit
```

QUESTION 6

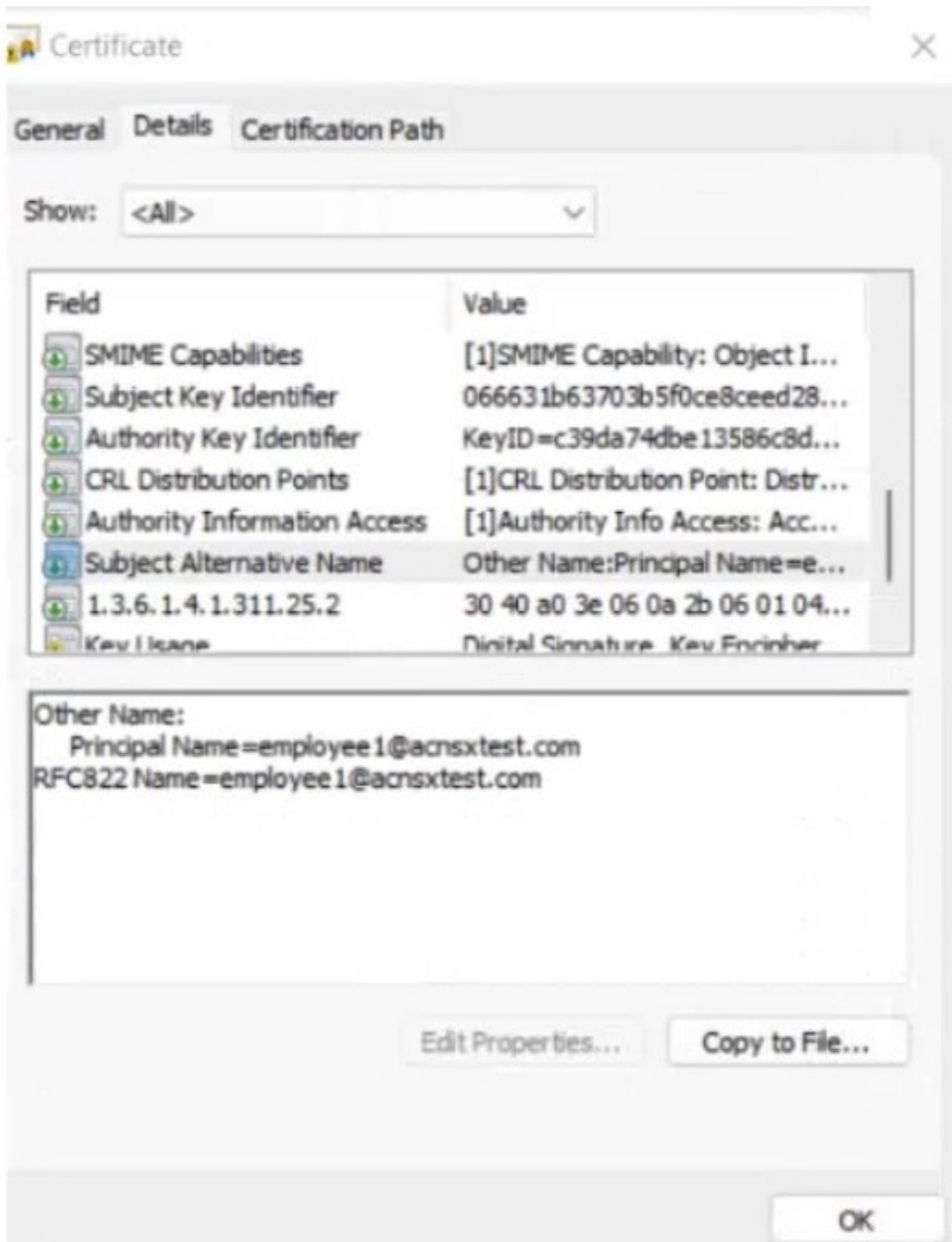
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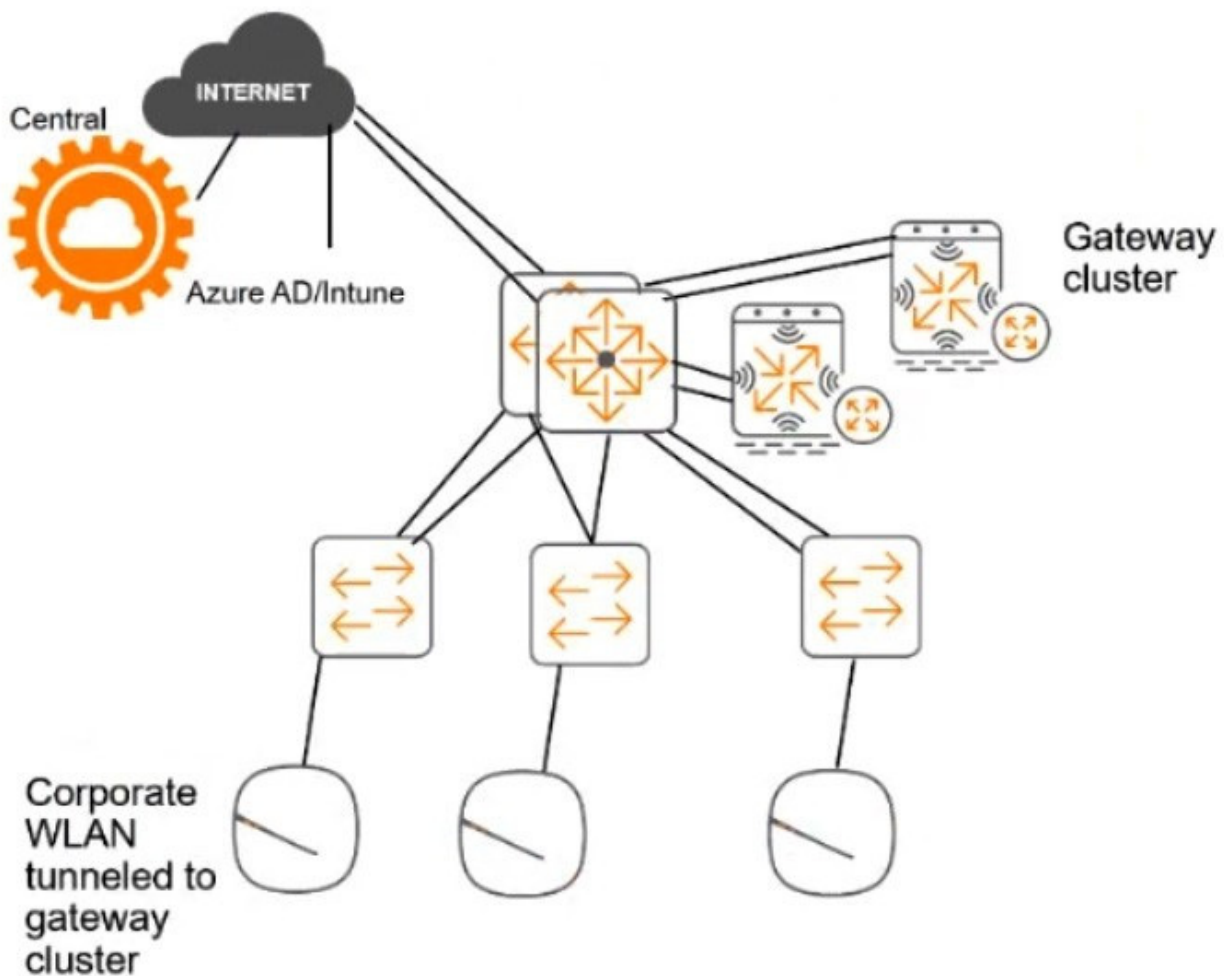
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You have imported the root certificate for the Windows CA to the ClearPass CA Trust list.

Which usages should you add to it based on the scenario requirements?

- A. EAP and AD/LDAP Server
- B. LDAP and Aruba infrastructure
- C. Radsec and Aruba infrastructure
- D. EAP and Radsec

Correct Answer: A

QUESTION 7

Refer to the scenario.

A customer is migrating from on-prem AD to Azure AD as its sole domain solution. The customer also manages both wired and wireless devices with Microsoft Endpoint Manager (Intune).

The customer wants to improve security for the network edge. You are helping the customer design a ClearPass deployment for this purpose. Aruba network devices will authenticate wireless and wired clients to an Aruba ClearPass Policy Manager (CPPM) cluster (which uses version 6.10).

The customer has several requirements for authentication. The clients should only pass EAP-TLS authentication if a query to Azure AD shows that they have accounts in Azure AD. To further refine the clients' privileges, ClearPass also should use information collected by Intune to make access control decisions.

Assume that the Azure AD deployment has the proper prerequisites established.

You are planning the CPPM authentication source that you will reference as the authentication source in 802.1X services.

How should you set up this authentication source?

- A. As Kerberos type
- B. As Active Directory type
- C. As HTTP type, referencing the Intune extension
- D. AS HTTP type, referencing Azure AD's FQDN

Correct Answer: D

An authentication source is a configuration element in CPPM that defines how to connect to an external identity provider and retrieve user or device information . CPPM supports various types of authentication sources, such as Active Directory, LDAP, SQL, Kerberos, and HTTP .

To authenticate wireless and wired clients to Azure AD, you need to set up an authentication source as HTTP type, referencing Azure AD's FQDN . This type of authentication source allows CPPM to use REST API calls to communicate with

Azure AD and validate the user or device credentials . You also need to configure the OAuth 2.0 settings for the authentication source, such as the client ID, client secret, token URL, and resource URL .

To use information collected by Intune to make access control decisions, you need to set up another authentication source as HTTP type, referencing the Intune extension . This type of authentication source allows CPPM to use REST API

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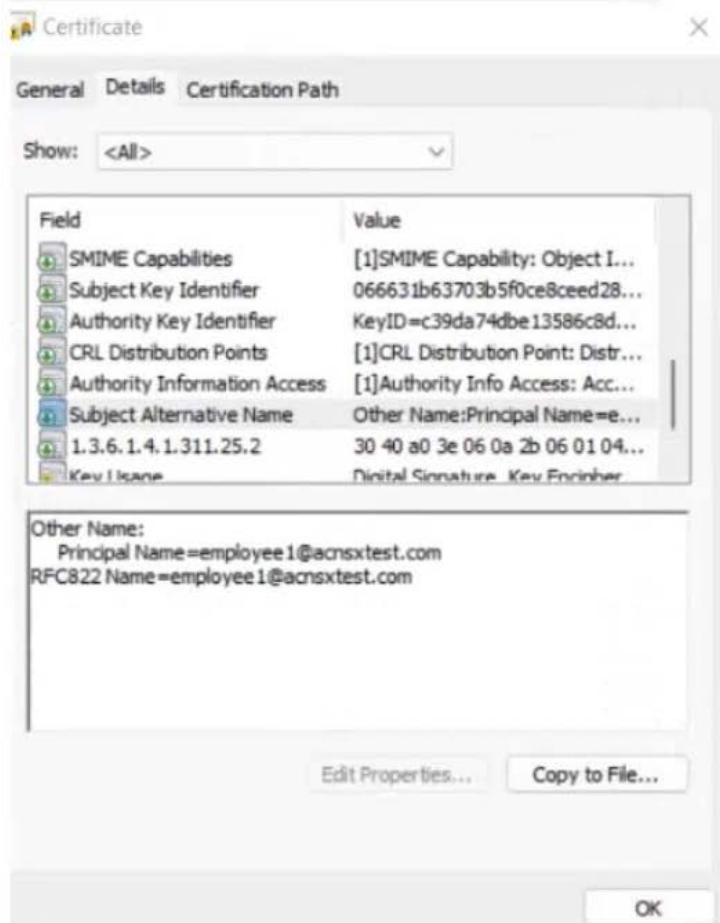
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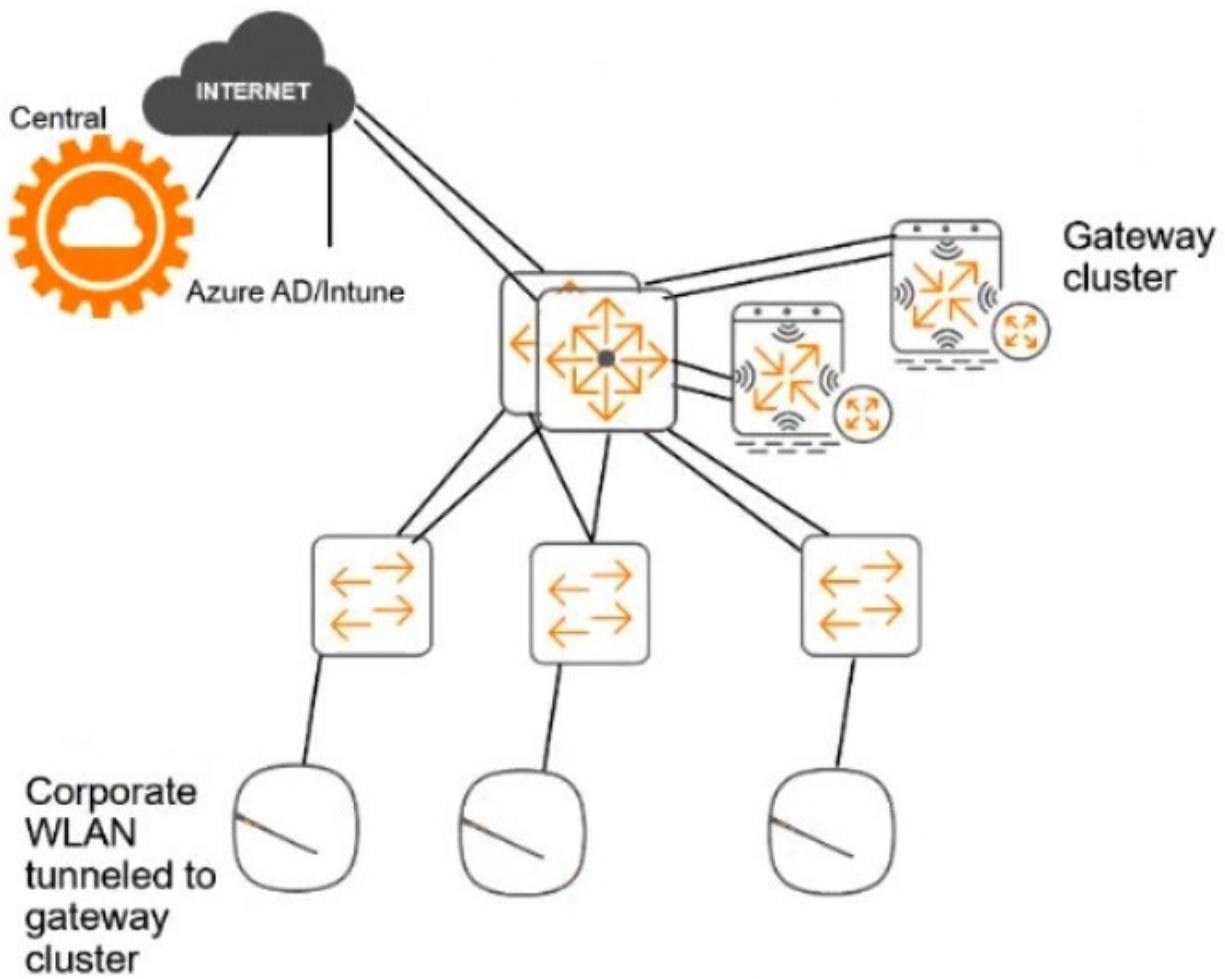
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onboard.acnsxtest.com = 10.47.47.8 You cannot see flow attributes for wireless clients. What should you check?

- A. Deep packet inspection is enabled on the role to which the Aruba APs assign the wireless clients.
- B. Firewall application visibility is enabled on the Aruba gateways, and the gateways have been rebooted.
- C. Gateway IDS/IPS is enabled on the Aruba gateways, and the gateways have been rebooted.
- D. Deep packet inspection is enabled on the Aruba Aps, and the APs have been rebooted.

Correct Answer: A

QUESTION 9

Refer to the scenario.

A customer has asked you to review their AOS-CX switches for potential vulnerabilities. The configuration for these switches is shown below:

What is one recommendation to make?

- A. Let the RADIUS server configure VLANs on LAG 1 dynamically.
- B. Use MDS instead of SHA1 for the NTP authentication key.
- C. Encrypt the certificate in the TA-profile.
- D. Create a control plane ACL to limit the sources that can access the switch with SSH.

Correct Answer: D

According to the AOS-CX Switches Multiple Vulnerabilities¹, one of the vulnerabilities (CVE-2021-41000) affects the SSH service on AOS-CX switches. This vulnerability allows an unauthenticated remote attacker to cause a denial-of-service condition on the switch by sending specially crafted SSH packets. The impact of this vulnerability is high, as it could result in a loss of management access and network disruption. Therefore, one recommendation to make is to create a control plane ACL to limit the sources that can access the switch with SSH. This way, the switch can filter out unwanted or malicious SSH traffic and reduce the risk of exploitation.

QUESTION 10

A customer requires a secure solution for connecting remote users to the corporate main site. You are designing a client-to-site virtual private network (VPN) based on Aruba VIA and Aruba Mobility Controllers acting as VPN Concentrators (VPNCs). Remote users will first use the VIA client to contact the VPNCs and obtain connection settings.

The users should only be allowed to receive the settings if they are the customer's "RemoteEmployees" AD group. After receiving the settings, the VIA clients will automatically establish VPN connections, authenticating to CPPM with certificates.

What should you do to help ensure that only authorized users obtain VIA connection settings?

- A. Set up the VPNCs' VIA web authentication profile to use CPPM as the authentication server; set up a service on CPPM that uses AD as the authentication source.
- B. Set up the VPNCs' VIA web authentication profile to use an AD domain controller as the LDAP server.
- C. Set up the VPNCs' VIA connection profile to use two authentication profiles, one RADIUS profile to CPPM and one LDAP profile to AD.
- D. Set up the VPNCs' VIA connection profile to use one authentication profile, which is set to the AD domain controller's hostname.

Correct Answer: A

The VIA web authentication profile is used to authenticate the users who want to download the VIA connection settings from the VPNCs. The VPNCs can use either an internal database or an external server (such as RADIUS or LDAP) as the authentication source for this profile. To ensure that only authorized users obtain VIA connection settings, you should use CPPM as the external server and configure a service on CPPM that uses AD as the authentication source. This way, you can leverage the role mapping and enforcement features of CPPM to check if the users belong to the "RemoteEmployees" AD group and grant or deny them access accordingly. The other options are not correct because they do not allow you to verify the users' AD group membership before providing them with VIA connection settings. Option B would only check the users' credentials against AD, but not their group membership. Option C would only apply to the VPN connection phase, not the VIA connection settings phase. Option D would not work because the VPNCs do not support LDAP as an authentication source for VIA connection profiles.

Reference:

1: Configuring the VIA Controller - Aruba, section "Configuring VIA Web Authentication Profile"

2: Configuring VIA Connection Profile - Aruba, section "Configuring Authentication Profile"

QUESTION 11

The customer needs a way for users to enroll new wired clients in Intune. The clients should have limited access that only lets them enroll and receive certificates. You plan to set up these rights in an AOS-CX role named "provision."

The customer's security team dictates that you must limit these clients' Internet access to only the necessary sites. Your switch software supports IPv4 and IPv6 addresses for the rules applied in the "provision" role.

What should you recommend?

- A. Configuring the rules for the "provision" role with IPv6 addresses, which tend to be more stable
- B. Enabling tunneling to the MCs on the "provision" role and then setting up the privileges on the MCs
- C. Configuring the "provision" role as a downloadable user role (DUR) in CPPM
- D. Assigning the "provision" role to a VLAN and then setting up the rules within a Layer 2 access control list (ACL)

Correct Answer: C

This is because a downloadable user role (DUR) is a feature that allows the switch to use a central ClearPass server to download user-roles to the switch for authenticated users¹² A DUR can contain various attributes and rules that define the access level and privileges of the user, such as VLAN, ACL, PoE, reauthentication period, etc³ A DUR can also be customized and updated on the ClearPass server without requiring any changes on the switch¹ A DUR can be used to create a "provision" role that allows users to enroll new wired clients in Intune. The "provision" role can have limited access that only lets them enroll and receive certificates from the Intune service. The "provision" role can also have rules that restrict the Internet access of the users to only the necessary sites, such as the Intune portal and the certificate authority. The rules can be based on IPv4 or IPv6 addresses, depending on the network configuration and preference² A. Configuring the rules for the "provision" role with IPv6 addresses, which tend to be more stable. This is not a valid recommendation because it does not address how to create and apply the "provision" role on the switch. Moreover, IPv6 addresses do not necessarily tend to be more stable than IPv4 addresses, as both protocols have their own advantages and disadvantages⁴

B. Enabling tunneling to the MCs on the "provision" role and then setting up the privileges on the MCs. This is not a valid recommendation because it does not explain how to enable tunneling or what MCs are. Moreover, tunneling is a technique that encapsulates one network protocol within another, which adds complexity and overhead to the network communication⁵

D. Assigning the "provision" role to a VLAN and then setting up the rules within a Layer 2 access control list (ACL). This is not a valid recommendation because it does not explain how to assign a role to a VLAN or how to create a Layer 2 ACL on the switch. Moreover, a Layer 2 ACL is limited in its filtering capabilities, as it can only match on MAC addresses or Ethernet types, which might not be sufficient for restricting Internet access to specific sites

QUESTION 12

Refer to the scenario.

A customer is using an AOS 10 architecture with Aruba APs and Aruba gateways (two per site). Admins have implemented auto-site clustering for gateways with the default gateway mode disabled. WLANs use tunneled mode to the

gateways.

The WLAN security is WPA3-Enterprise with authentication to an Aruba ClearPass Policy Manager (CPPM) cluster VIP. RADIUS communications use RADIUS, not RadSec.

For which devices does CPPM require network device entries?

- A. For gateways\' actual IP addresses and dynamic authorization VRRP addresses
- B. For gateways\' actual IP addresses and AP clusters\' virtual IP addresses for dynamic authorization
- C. For APs\' actual IP addresses
- D. For AP clusters\' virtual IP addresses

Correct Answer: A

ClearPass Policy Manager (CPPM) requires network device entries for the devices that communicate with it using RADIUS or TACACS+ protocols. In this scenario, the gateways are the devices that act as RADIUS clients and send authentication requests to CPPM for the WLAN users. Therefore, CPPM needs to have network device entries for the gateways\' actual IP addresses and the shared secrets that match the ones configured on the gateways.

Additionally, CPPM also requires network device entries for the gateways\' dynamic authorization VRRP addresses, which are used for sending CoA messages to the gateways. CoA messages are used to change the attributes or status of a user session on the gateways without requiring re-authentication. For example, CPPM can use CoA to apply policies, roles, or bandwidth limits based on various conditions. To enable VRRP IP addresses for dynamic authorization, you need to set up gateway clusters manually and assign a VRRP VLAN and a VRRP IP address to each cluster. This way, CPPM can use the VRRP IP address as the NAS IP address for RADIUS communications and CoA messages. The VRRP IP address will remain the same even if the active gateway in the cluster changes due to a failover event, ensuring seamless operations.