

Aruba Certified Mobility Expert Written Exam

Exam description

This exam tests your technical expert skills with WLAN design, implementation, and configuration in complex multisite highly available network environments using the Aruba Controller, Access Point, and AirWave product lines. It also tests your ability to design, implement, monitor, troubleshoot, and maintain end-to-end WLAN campus and branch solutions, and resolve issues in an existing customer infrastructure.

Ideal candidate for this exam

Typical candidate is recognized as an expert-level resource, advisor, and mentor to networking professionals. Candidate has extensive hands on Aruba WLAN configuration, administration, and troubleshooting experience. Candidate have more than 4 years of experience implementing complex, highly available, multisite Aruba WLANs, and a minimum of one year experience using AirWave to manage and monitor Aruba WLAN deployments. Candidate also has a minimum of 3 years of switching and routing experience.

Exam ID	HPE6-A79
Exam type	Proctored
Exam duration	2 hours
Exam length	60 questions
Passing score	65%
Delivery languages	English
Danistan fan His Frans	<u>'</u>

Register for this Exam

You need an HPE Learner ID and a Pearson VUE login and password.

Passing the HPE6-A79 Aruba Certified Mobility Expert Written Exam is required before registering for the practical exam.

No reference material is allowed at the testing site. This exam may contain beta test items for experimental purposes.

During the exam, you can make comments about the exam items. We welcome these comments as part of our continuous improvement

Exam contents

This exam has 60 questions.

Advice to help you take this exam

- Complete the training and review all course materials and documents before you take the exam.
- Exam items are based on expected knowledge acquired from job experience, an expected level of industry standard knowledge, or other prerequisites (events, supplemental materials, etc.).
- Successful completion of the course alone does not ensure you will pass the exam.
- Read this HPE Exam Preparation Guide and follow its recommendations
- Visit HPE Press for additional reference materials, study guides, practice tests, and HPE books.

Objectives

This exam validates that you can:

Percentage of Exam	Sections/Objectives
24%	Analyze functional requirements to create a solution design and implementation plan. • Analyze a complex multisite highly available network to determine the physical infrastructure connectivity requirements. • Analyze an entire WLAN infrastructure to determine the licensing requirements. • Analyze a nemtire WLAN infrastructure to determine the architectural requirements. • Analyze a complex highly available multi-controller environment to determine redundancy requirements. • Analyze a complex highly available multi-controller environment to determine mobility requirements. • Analyze a scenario to determine remote access requirements. • Analyze a scenario to determine AirWave scalability requirements. • Analyze customer requirements to determine the need for QoS. • Analyze customer requirements to determine roles, firewall policies, and rule requirements. • Analyze customer requirements to determine he need for a multizone deployment.
21%	Configure and validate Aruba WLAN solutions. Configure and validate a WLAN to support voice and video optimization. Configure a secure WLAN and integrate it with an existing infrastructure. Validate client connectivity to a secure WLAN. Configure and validate a complex multisite high availability mobility environment. Configure a guest WLAN and validate client connectivity. Configure and validate remote connectivity using RAP or a branch office solution.
20%	Implement advanced services and security solutions. Configure role derivation and integrate with an existing AAA server. Configure and verify tunneled node. Configure and validate IAP-VPM to a controller for remote access. Configure advanced firewall policies. Configure a WLAN with WPA2/PSK Mac authentication for role derivation. Implement RFProtect. Configure and validate a multizone solution.
17%	Manage and monitor Aruba solutions. Use AirWave and a Mobility Master to gather information about client health. Create triggers and custom reports in AirWave. Monitor the Spectrum Analyzer dashboard on the Mobility Controller. Monitor and analyze controller health. Monitor and optimize the RF environment. Integrate and monitor devices with AirWave.
18%	Perform advanced troubleshooting. Troubleshoot controller licensing. Troubleshoot controller and AP communication in a Mobility Master-Mobility Controller-Virtual Mobility Controller environment. Troubleshoot client connectivity and network access. Troubleshoot UCC issues. Troubleshoot multizone.

Sample questions

Sample questions are provided only as examples of question style, format and complexity/difficulty. They do not represent all question types and do not reflect all topic areas. These sample questions do not represent a practice test.

1. Refer to the exhibit.

(MC2) [MDC] #show user
This operation can take a while depending on number of users. Please be patient

IP Host Name	MAC User Type	Name	Role	Age(d:h:m)	Auth	VPN link	AP name	Roaming	Essid/Bssid/Phy	Profile	Forward mode	Ту
	70:4d:7b:10:9e:c6 WIRELESS	it	guest	00:00:00	8021x-User		AP22	Wireless	Corp-employee/70:3a:0e:5b:0a:d2/a-VHT	Corp-Network	tunnel	Wi

User Entries: 1/1
Curr/Cum Alloc:3/42 Free:0/39 Dyn:3 AllocErr:0 FreeErr:0
(MC2) [MDC] #show user mac 70:4d:7b:10:9e:c6
This operation can take a while depending on number of users. Please be patient

Name: it, IP: 10.1.141.150, MAC: 70:4d:7b:10:9e:c6, Age: 00:00:00
Role: guest (how: ROLE_DERIVATION_DOTIX), ACL: 7/0
Authentication: Yes, status: successful, method: 8021x-User, protocol: EAP-PEAP, server: ClearPass.23
Authentication Servers: dotlx authserver: ClearPass.23, mac authserver:
Bandwidth = No Limit
Bandwidth = No Limit
Bandwidth = No Limit Role Derivation: ROLE DERIVATION DOT1X

(MC2) [MDC] #show log security 55

```
Aug 27 09:18:28 :124804: 3562> dBBUG> | authmgr| server_cbh (638)(UEL) : os_autns 0, s clearrass.23 type 2 inscreed and in
   , actions = 17
Aug 27 09:18:28 :124105: <3562> <DBUG> |authmgr|
Aug 27 09:18:28 :124105: <3562> <DBUG> |authmgr|
c=1.
                                                                                                                                                                                                                                                                                                                             \label{eq:mm:mac=70:4d:7b:10:9e:c6, state=6, name=it, role=guest, dev_type=, ip=0.0.0.0, new_rec=0.\\ \mbox{MM: mac=70:4d:7b:10:9e:c6, state=3, name=it, role=guest, dev_type=, ip=10.1.141.150, new_rec=0.\\ \mbox{MM: mac=70:4d:7b:10:9e:c6, state=3, name=it, role=guest, dev_type=, ip=10.1.141.150, new_rec=0.} \label{eq:mm:mac=70:4d:7b:10:9e:c6}
 c=1.
Aug 27 09:18:28 :124105:
Aug 27 09:18:28 :124004:
Aug 27 09:18:28 :124304:
Aug 27 09:18:28 :124304:
Aug 27 09:18:28 :132219:
Aug 27 09:18:28 :132219:
Aug 27 09:18:28 :132020:
Aug 27 09:18:28 :124004:
Aug 27 09:18:28 :124004:
                                                                                                                                                                <3562> <DBUG> | authmgr|
<3362> <DBUG> | authmgr|
<33562> <DBUG> | authmgr|
<33562> <DBUG> | authmgr|
<33562> <DBUG> | authmgr|
<33562> <INFO> | authmgr|
<33562> <INFO> | authmgr|
<33562> <INFO> | authmgr|
<33562> <DBUG> | authmgr|
<33562> <DBUG> | authmgr|
<33562> <DBUG> | authmgr|
                                                                                                                                                                                                                                                                                                                           MM: mac=70:4d:7b:10:9e:c6, state=6, name=it, role=guest, dev_type=, ip=0.0.0.0.0, new_rec=1.

AUTH GSM repkey: repkey 0 (mac 70:4d:7b:10:9e:c6)

Rx message 21/23, length 351 from 10.254.10.214:8344

Local DB auth failed for user 70:4d:7b:10:9e:c6, error (User not found in UserDB)

MAC=70:4d:7b:10:9e:c6 Local User DB lookup result for Machine auth=FAILURE

Station it 70:4d:7b:10:9e:c6 failed Machine authentication update role guest logging role event for 0x224b04c: 0x216fe0c,0x80b07, index 6

user_download: User N/A Router Acl(0)
```

A network administrator evaluates a deployment to validate that users are assigned to the proper roles. Based on the output shown in the exhibit, what can the network administrator conclude?

- a. The MC assigned the role based on server derivation rules.
- b. The MC assigned the machine authentication default user role
- c. The MC assigned the role based on user derivation rules.
- d. The MC assigned the default role based on the authentication method.
- 2. A company offers guest access with an open SSID and an internal Mobility Controller (MC) captive portal. The network administrator needs to integrate a more scalable solution with a remote RADIUS and captive portal server The network administrator fully deploys a guest solution with self-registration in ClearPass, and defines the MC as a RADIUS client. Next, the network administrator defines ClearPass as a RADIUS server and adds it into a server group in the MC.

Which two configuration components must the network administrator modify in the MC to complete the deployment? (Select two.)

- a. AAA server profile
- b Initial role firewall policies
- c. VAP profile
- d. Authentication server group
- e. Captive portal profile
- 3. Refer to the exibit.

AP Database

Name	Group	AP Type	IP Address	Status	Flags	Switch IP	Standby IP
70:3a:0e:cd:b0:a4	default	335	10.1.145.150	Down	2	10.254.13.14	0.0.0.0
a8:bd:27:c5:c3:3a	default	335	10.1.147.2	Down	2	10.254.13.14	0.0.0.0
AP11	CAMPUS	335	10.1.146.150	Up 6m:35s	2z	10.254.13.14	0.0.0.0

Flags: 1 = 802.1x authenticated AP use EAP-PEAP; 1+ = 802.1x use EST; 1- = 802.1x use factory cert; 2 = Using IKE version 2
B = Built-in AP; C = Cellular RAP; D = Dirty or no config
E = Regulatory Domain Mismatch; F = AP failed 802.1x authentication
G = No such group; I = Inactive; J = USB cert at AP; L = Unlicensed
M = Mesh node
N = Duplicate name; P = PPPoe AP; R = Remote AP; R = Remote AP requires Auth;
S = Standby-mode AP; U = Unprovisioned; X = Maintenance Mode
Y = Mesh Recovery
C = CERT-based RAP; e = Custom EST cert; f = No Spectrum FFT support
i = Indoor; o = Outdoor; s = LACP striping; u = Custom-Cert RAP; z = Datazone AP

Total APs:3 (MC11) [mynode] #show ap bss-table

fm (forward mode): T-Tunnel, S-Split, D-Decrypt Tunnel, B-Bridge (s-standard, p-persistent, b-backup, a-always), n-anyspot

cluster (cluster role): U-UAC, A-AAC, sU-Standby UAC, sA-Standby AAC

Aruba AP BSS Table

bss phy type ch/EIRP/max-EIRP cur-cl ap name in-t(s) tot-t mtu acl-state acl fm cluster datazone port ip 70:3a:0e:5b:0a:c4 Company Guest N/A 10.1.146.150 g-HT ap 6/8.0/25.6 70:3a:0e:5b:0a:d4 Company Guest N/A 10.1.146.150 a-VHT ap 153E/9.0/28.5 79 T 79 T 6/8.0/25.6 3m:40s 1500 3m:40s 1500 AP11 yes ves AP11

Channel followed by "*" indicates channel selected due to unsupported configured channel. "Spectrum" followed by "^" indicates Local Spectrum Override in effect.

Num APs:2 Num Associations:0

Based on the output shown in the exhibit, what is the current relationship between AP11 and MC11?

- a. AP11 is a multizone AP, and MC11 is its datazone.
- b. AP11 is a multizone AP, and MC11 is its primary zone.
- c. AP11 is a CAP, and MC11 terminates its active tunnels.
- d. AP11 is a CAP, and MC11 terminates its standby tunnels.

4. Refer to the exhibit.

(MC1) [MDC1 #show aga authentication dot1x DOT1X-EMP

802.1X Authentication Profile "DOT1X-EMP"

Parameter Value WPA/WPA2 Key Message Retry Count Multicast Key Rotation Unicast Key Rotation Reauthentication Opportunistic Key Caching Validate PMKID Disabled Disabled Enabled Enabled Enabled Use Session Key Use Static Key Disabled Disabled xSec MTU 1300 bytes XSEC MIU
Termination
Termination EAP-Type
Termination Inner EAP-Type
Enforce Suite-B 128 bit or more security level Authentication
Enforce Suite-B 192 bit security level Authentication Disabled N/A N/A Disabled Disabled Token Caching Token Caching Period CA-Certificate Disabled 24 hr(s) N/A default Server-Certificate Server-Lertilicate
TLS Guest Access
TLS Guest Role
Ignore EAPOL-START after authentication
Handle EAPOL-Logoff
Ignore EAP ID during negotiation. Disabled guest Disabled Disabled Disabled WPA-Fast-Handover Disabled Check certificate common name against AAA server Enabled

Based on the output shown in the exhibit, which configuration change is required to validate user credentials in a server group that includes LDAP and the internal database?

- a. aaa authentication dot1x DOT1X-EMP
 - termination eap-type eap-peap
 - termination inner-eap-type eap-mschapv2
- b. aaa authentication dot1x DOT1X-EMP
 - termination eap-type eap-tls ca-cert AD.mycompany.com
 - server-cert AD-signed.mvcompany
- c. aaa authentication dot1x DOT1X-EMP
 - ca-cert AD.mvcompanv.com server-cert AD-signed.mvcompanv.com
- server server-retry 5 d. aaa authentication dot1x DOT1X-EMP
 - termination enable
 - termination eap-type eap-peap
 - termination inner-eap-type eap-mschapv2
- 5. Refer to the exhibit.

```
Jun 26 15:27:46 :121031: <3575> <DBUG> |authmgr| |aaa| [rc_request.c:67] Add Request: id=63, server=ClearPass.23, IP=10.254.1.23, server-group=SG-
  ClearPass.23, fd=64
Jun 26 15:27:46 :121031:
Jun 26 15:27:46 :121031:
                                                                                                                       3375> <br/>
3375> <br/>
3575> <br/>
3575> <br/>
3580G> | authmgr|<br/>
3375> <br/>
3475> <br/>
3575> <br/>
3580G> | authmgr|<br/>
3475> <br/>
3580G> | authmgr|
                                                                                                                                                                                                                                                                  laaal
                                                                                                                                                                                                                                            laaal
  Jun 26 15:27:46 :121031:
                                                                                                                                                                                                                                            aaa
                                                                                                                                                                                                                                            laaa
                                                                                                                                                                                                                                                                  Jun 26 15:27:46 :121031:
Jun 26 15:27:46 :121031:
  Jun 26 15:27:46 :121031:

Jun 26 15:27:46 :121031:

Jun 26 15:27:46 :121031:

Jun 26 15:27:46 :121031:

Jun 26 15:27:46 :121031:

Jun 26 15:27:46 :121031:
                                                                                                                                                                                                                                            aaa
                                                                                                                                                                                                                                            aaa
                                                                                                                                                                                                                                            laaa
  Jun 26 15:27:46 :121031:
                                                                                                                                                                                                                                            |aaa|
|aaa|
|aaa|
Jun 26 15:27:46 :121031: <3575 < DBUG- | authmgr| | aaa| [rc_request.c:95] Find Request: id=63, server=(null), IP=10.254.1.23, server-group=(null) fd=64
Jun 26 15:27:46 :121031: <3575 < DBUG- | authmgr| | aaa| [rc_request.c:104] Current entry: server=(null), IP=10.254.1.23, server-group=(null), fd=64
Jun 26 15:27:46 :121031: <3575 < DBUG- | authmgr| | aaa| [rc_request.c:48] Del Request: id=63, server=(clearPass.23, IP=10.254.1.23, server-group=SG-ClearPass.23 id=64
Jun 26 15:27:46 :121031: <3575 < DBUG- | authmgr| | aaa| [rc_api.c:1228] Authentication Successful
Jun 26 15:27:46 :121031: <3575 < DBUG- | authmgr| | aaa| [rc_api.c:1228] RADIUS RESPONSE ATTRIBUTES:
Jun 26 15:27:46 :121031: <3575 < DBUG- | authmgr| | aaa| [rc_api.c:1245] [Microsoft] MS-MPPE-Recv-Key: \262\250\331*T\270\333\[\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\sigma\
    Jun 26 15:27:46 :124003: <3575> <INFO> |authmgr| Authentication result=Authentication Successful(0), method=802.1x, server=ClearPass.23, user=70:
   4d:7b:10:9e:c6
```

A network administrator deploys an employee WLAN and uses ClearPass as the authentication and policy server. Change of Authorization (CoA) is used to disconnect users once the client has been profiled. This permits a more granular control over connections prior to assigning the ultimate user role

When users connect, the network administrator notices they always remain in the profiling firewall role and the CoA action does not occur. It has been confirmed that the ClearPass server configuration is correct. The network administrator debugs an authentication attempt and sees the output shown in the exhibits.

What must the network administrator do to successfully deploy this solution?

- a. Change the RADIUS NAS-ID of the authentication server at the Managed Device group level.
- b. Use an IP address for the calling station ID in the authentication server configuration at the MC device level.
- c. Change the RADIUS Client NAS IPv4 address at the MC device level.
- d. Enable interim accounting in the Managed Device group level.

Answers

This section provides answers to and references for the sample questions.

1. Refer to the exhibit.

(MC2) [MDC] #show user This operation can take a while depending on number of users. Please be patient

IP Host Name	MAC User Type	Name	Role	Age(d:h:m)	Auth	VPN link	AP name	Roaming	Essid/Bssid/Phy	Profile	Forward mode	Ту
		it	guest	00:00:00	8021x-User		AP22	Wireless	Corp-employee/70:3a:0e:5b:0a:d2/a-VHT	Corp-Network	tunnel	Wi

User Entries: 1/1
Curr/Cum Alloc:3/42 Free:0/39 Dyn:3 AllocErr:0 FreeErr:0
(MC2) [MDC] #show user mac 70:4d:7b:10:9e:c6
This operation can take a while depending on number of users. Please be patient

Name: it, IP: 10.1.141.150, MAC: 70:4d:7b:10:9e:c6, Age: 00:00:00
Role: guest (how: ROLE_DERIVATION_DOT1X), ACL: 7/0
Authentication: Yes, status: successful, method: 8021x-User, protocol: EAP-PEAP, server: ClearPass.23
Authentication Servers: dot1x authserver: ClearPass.23, mac authserver:
Bandwidth = No Limit
Bandwidth = No Limit
Bandwidth = No Limit
Bandwidth = No Limit

Role Derivation: ROLE DERIVATION DOTIX

```
Aug 27 09:18:28 :124004: p-Network Aug 27 09:18:28 :124612: er: 'ClearPass.23' server-Aug 27 09:18:28 :124097: Aug 27 09:18:28 :124004: Aug 27 09:18:28 :124004: Aug 27 09:18:28 :124104: Aug 27 09:18:28 :124004: Aug 27 09:18:28 :124004: Aug 27 09:18:28 :124004: Aug 27 09:18:28 :124234: .actions = 17
                                                                                                                                            <3562> <DBUG> lauthmort
                                                                                                                                                                                                                                                                                 AuthSurv onAuthSucc(authsurv:0): Entered, proto:0 eap-type:0x19 for username:'it' auth-serv
                                                                                                                                  <3562> <DBUG> [authmgr] AuthSurv onAuthSucc(authsurv:0): Entered, proto:0 eap-type:0x19 for username:'it' auth-serv
-group:'Corp-Network' AnyRadLdapIn00S:'DontCare'.
<3562> <DBUG> [authmgr] Setting authserver 'ClearPass.23' for user 0.0.0, client 802.1x.
<3562> <DBUG> [authmgr] Setting authserver 'ClearPass.23' for user 0.0.0, client 802.1x.
<3562> <DBUG> [authmgr] Setting authserver 'ClearPass.23' for user 0.0.0, client 802.1x.
<3562> <DBUG> [authmgr] Setting authserver 'ClearPass.23' for user 0.0.0, client 802.1x.
<3562> <DBUG> [authmgr] Setting authserver 'ClearPass.23' for user 0.0.0, client 802.1x.
<3562> <DBUG> [authmgr] Setting authserver is ClearPass.23.
<3562> <DBUG> [authmgr] Setting Server is ClearPass.23.
<3562> <DBUG> [authmgr] Server is ClearPass.23.
<3
 , actions = 17
Aug 27 09:18:28 :124105:
Aug 27 09:18:28 :124105:
                                                                                                                                     <3562> <DBUG> |authmgr|
<3562> <DBUG> |authmgr|
                                                                                                                                                                                                                                                                               MM: mac=70:4d:7b:10:9e:c6, state=6, name=it, role=guest, dev_type=, ip=0.0.0.0, new_rec=0. MM: mac=70:4d:7b:10:9e:c6, state=3, name=it, role=guest, dev_type=, ip=10.1.141.150, new_re
c=1.
Aug 27 09:18:28 :124105:
Aug 27 09:18:28 :124004:
Aug 27 09:18:28 :124204:
Aug 27 09:18:28 :1242064:
Aug 27 09:18:28 :132219:
Aug 27 09:18:28 :132020:
Aug 27 09:18:28 :124004:
Aug 27 09:18:28 :124004:
                                                                                                                                                                                                                                                                              MM: mac=70:4d:7b:10:9e:c6, state=6, name=it, role=guest, dev_type=, ip=0.0.0.0.0, new_rec=1.

AUTH GSM repkey: repkey 0 (mac 70:4d:7b:10:9e:c6)

Rx message 21/23, length 351 from 10.254.10.214:8344

Local DB auth failed for user 70:4d:7b:10:9e:c6, error (User not found in UserDB)

MAC=70:4d:7b:10:9e:c6 Local User DB lookup result for Machine auth=FAILURE

Station it 70:4d:7b:10:9e:c6 failed Machine authentication update role guest logging role event for 0x224b04c: 0x216fe0c,0x80b07, index 6

user_download: User N/A Router Acl(0)
                                                                                                                                              <3562> <DBUG>
                                                                                                                                                                                                                        lauthmgr
                                                                                                                                         <3562> <BBUG> | authmgr|
<3562> <BBUG> | authmgr|
<3562> <BBUG> | authmgr|
<3562> <BBUG> | authmgr|
<3562> <IMFO> | authmgr|
<33662> <IMFO> | authmgr|
<3562> <IMFO> | authmgr|
<3562> <BBUG> | authmgr|
<3562> <BBUG> | authmgr|
<3562> <BBUG> | authmgr|
```

A network administrator evaluates a deployment to validate that users are assigned to the proper roles. Based on the output shown in the exhibit, what can the network administrator conclude?

- a. The MC assigned the role based on server derivation rules.
- b. The MC assigned the machine authentication default user role.
- c. The MC assigned the role based on user derivation rules.
- d. The MC assigned the default role based on the authentication method
- 2. A company offers guest access with an open SSID and an internal Mobility Controller (MC) captive portal. The network administrator needs to integrate a more scalable solution with a remote RADIUS and captive portal server The network administrator fully deploys a guest solution with self-registration in ClearPass, and defines the MC as a RADIUS client. Next, the network administrator defines ClearPass as a RADIUS server and adds it into a server group in

Which two configuration components must the network administrator modify in the MC to complete the deployment? (Select two.)

- a. AAA server profile
- b. Initial role firewall policies
- c. VAP profile
- d. Authentication server group
- e. Captive portal profile
- 3. Refer to the exibit.

(MC11) [mynode] #show ap database

```
AP Database
                                                       AP Type IP Address
                                                                                                                           Flags Switch IP
                                                                                                                                                                    Standby IP
                                                                         10.1.145.150 Down 2
10.1.147.2 Down 2
10.1.146.150 Up 6m:35s 2z
                                     default 335
                                                                                                                                         10.254.13.14 0.0.0.0
10.254.13.14 0.0.0.0
10.254.13.14 0.0.0.0
 a8:bd:27:c5:c3:3a
AP11
                                     default
CAMPUS
                                                        335
335
Flags: 1 = 802.1x authenticated AP use EAP-PEAP; 1+ = 802.1x use EST; 1- = 802.1x use factory cert; 2 = Using IKE version 2

B = Built-in AP; C = Cellular RAP; D = Dirty or no config

E = Regulatory Domain Mismatch; F = AP failed 802.1x authentication

G = No such group; I = Inactive; J = USB cert at AP; L = Unlicensed

M = Mesh node

N = Duplicate name; P = PPPoe AP; R = Remote AP; R- = Remote AP requires Auth;

S = Standby-mode AP; U = Unprovisioned; X = Maintenance Mode

Y = Mesh Recovery

c = CERT-based RAP; e = Custom EST cert; f = No Spectrum FFT support

i = Indoor; o = Outdoor; s = LACP striping; u = Custom-Cert RAP; z = Datazone AP
 Total APs:3 (MC11) [mynode] #show ap bss-table
 fm (forward mode): T-Tunnel, S-Split, D-Decrypt Tunnel, B-Bridge (s-standard, p-persistent, b-backup, a-always), n-anyspot
 cluster (cluster role): U-UAC, A-AAC, sU-Standby UAC, sA-Standby AAC
 Aruba AP BSS Table
 bss
                                                                                                                         type ch/EIRP/max-EIRP cur-cl ap name in-t(s) tot-t
                                                                   port ip
                                                                                                                                                                                                                                         mtu
                                                                                                           phy
```

6/8.0/25.6

153E/9.0/28.5

acl-state acl

3m:40s

3m:40s

AP11

79

fm cluster

datazone

yes yes

Channel followed by "*" indicates channel selected due to unsupported configured channel. "Spectrum" followed by "^" indicates Local Spectrum Override in effect.

10.1.146.150 g-HT ap 10.1.146.150 a-VHT ap

Num APs:2 Num Associations:0

Based on the output shown in the exhibit, what is the current relationship between AP11 and MC11?

```
a. AP11 is a multizone AP, and MC11 is its datazone.
```

b. AP11 is a multizone AP, and MC11 is its primary zone.

c. AP11 is a CAP, and MC11 terminates its active tunnels

d. AP11 is a CAP, and MC11 terminates its standby tunnels.

4. Refer to the exhibit.

(MC1) [MDC] #show aaa authentication dot1x DOT1X-EMP

802.1X Authentication Profile "DOT1X-EMP"

```
Parameter
                                                                                                        Value
WPA/WPA2 Key Message Retry Count
Multicast Key Rotation
Unicast Key Rotation
                                                                                                        Disabled
                                                                                                         Disabled
Reauthentication
                                                                                                        Enabled
Opportunistic Key Caching
Validate PMKID
                                                                                                        Enabled.
                                                                                                         Enabled
Use Session Key
Use Static Key
xSec MTU
                                                                                                        Disabled
                                                                                                        Disabled
                                                                                                         1300 bytes
Termination
                                                                                                        Disabled
Termination EAP-Type
Termination Inner EAP-Type
Termination Inner EAP-Type
Enforce Suite-B 192 bit or more security level Authentication
Enforce Suite-B 192 bit security level Authentication
                                                                                                        N/A
N/A
                                                                                                        Disabled
                                                                                                        Disabled
Token Caching
Token Caching Period
                                                                                                         24 hr(s)
CA-Certificate
Server-Certificate
TLS Guest Access
TLS Guest Role
Ignore EAPOL-START after authentication
Handle EAPOL-Logoff
                                                                                                        N/A
default
                                                                                                        Disabled
                                                                                                        guest
Disabled
                                                                                                        Disabled
Ignore EAP ID during negotiation.
                                                                                                        Disabled
Check certificate common name against AAA server
                                                                                                        Enabled
```

Based on the output shown in the exhibit, which configuration change is required to validate user credentials in a server group that includes LDAP and the internal database?

- a. aaa authentication dot1x DOT1X-EMP termination eap-type eap-peap termination inner-eap-type eap-mschapv2
- b. aaa authentication dot1x DOT1X-EMP termination eap-type eap-tls ca-cert AD.mycompany.com server-cert AD-signed.mycompany
- c. aaa authentication dot1x DOT1X-EMP ca-cert AD.mycompany.com server-cert AD-signed.mycompany.com server server-retry 5
- d. aaa authentication dot1x DOT1X-EMP termination enable termination eap-type eap-peap termination inner-eap-type eap-mschapv2

5. Refer to the exhibit.

(MC1) #show log security 56

```
Jun 26 15:27:46 :121031: <3575> <DBUG> |authmgr| |aaa| [rc_request.c:67] Add Request: id=63, server=ClearPass.23, IP=10.254.1.23, server-group=SG-ClearPass.23, fd=64

Jun 26 15:27:46 :121031: <3575> <DBUG> |authmgr| |aaa| [rc_server.c:2367] Sending radius request to ClearPass.23:10.254.1.23:1812 id:63,len:263

Jun 26 15:27:46 :121031: <3575> <DBUG> |authmgr| |aaa| [rc_server.c:2383] User-Name: employee33
                                                                                                            <3575> <DBUG>
                                                                               |authmgr|
|authmgr|
|authmgr|
 Jun 26 15:27:46 :121031:

Jun 26 15:27:46 :121031:
                                                                               authmgr

    <a3575> OBUG>
    <a5575> OBUG>
    <a5575> OBUG>
    <a5575> OBUG>

                                                                               authmgr
                                                                                                   aaa
                                                                               lauthmar
                                                                                                   laaa
 Jun 26 15:27:46 :121031:
                                                                                authmgr
                                                                               |authmgr|
|authmgr|
|authmgr|
|authmgr|
                                                                                                   aaa
 Jun 26 15:27:46 :121031:
                                                                               authmgr
                                                                                                   aaa
 Jun 26 15:27:46 :121031:
                                                                               lauthmar
                                                                                                   laaa
 Jun 26 15:27:46 :121031:
                                                                               |authmgr|
|authmgr|
|authmgr|
|authmgr|
                                                                                                   |aaa
|aaa
|aaa
                                                                                                             Jun 26 15:27:46 :121031: <3575> <DBUG> |authmgr| Jun 26 15:27:46 :121031: <3575> <DBUG> |authmgr|
                                                                                                             [rc_request.c:104] Current entry: server=(null), IP=10.254.1.23, server-group=(null), fd=64
[rc_request.c:48] Del Request: id=63, server=ClearPass.23, IP=10.254.1.23, server-group=SG-
                                                                                                  laaal
aaa
  Jun 26 15:27:46 :124003: <3575> <INFO> |authmgr| Authentication result=Authentication Successful(0), method=802.1x, server=ClearPass.23, user=70:
 4d:7b:10:9e:c6
```

A network administrator deploys an employee WLAN and uses ClearPass as the authentication and policy server. Change of Authorization (CoA) is used to disconnect users once the client has been profiled. This permits a more granular control over connections prior to assigning the ultimate user role.

When users connect, the network administrator notices they always remain in the profiling firewall role and the CoA action does not occur. It has been confirmed that the ClearPass server configuration is correct. The network administrator debugs an authentication attempt and sees the output shown in the exhibits.

What must the network administrator do to successfully deploy this solution?

- a. Change the RADIUS NAS-ID of the authentication server at the Managed Device group level.
- b. Use an IP address for the calling station ID in the authentication server configuration at the MC device level.
- c. Change the RADIUS Client NAS IPv4 address at the MC device level.
- d. Enable interim accounting in the Managed Device group level

For more information

Contact our program

© Copyright 2024 Hewlett Packard Enterprise. The information contained herein is subject to change without notice. The only warranties for HPE products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HPE shall not be liable for technical or editorial errors or omissions contained herein.

Information is as of February 2024, Revision 5