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## Aruba Certified Mobility Expert Written Exam

HP HPE6-A79

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## QUESTION NO: 1

A software development company has 764 employees who work from home. The company also has small offices located in different cities throughout the world. During working hours, they use RAPs to connect to a datacenter to upload software code as well as interact with databases.

In the past two month, cabling issues have occurred connection to the 7240XM Mobility Controller (MC) that runs ArubaOS 8 and terminates the RAPs. These RAPs disconnect, affecting the users connected to the RAPs. This also causes problems with code uploads and database synchronizations. Therefore, the company decides to add a second 7240XM controller for redundancy.

How should the network administrator deploy both controllers in order to provide the redundancy while preventing failover events from disconnecting users?

- A. Connect both controllers with common VLANs, and create an HA fast failover group with public addresses in the internet VLAN.
- B. Connect both controllers with common VLANs, and create an L2-connected cluster using public addresses in the internet VLAN.
- C. Connect both controllers with different VLANs, and create an L2-connected cluster using public addresses in the internet VLAN.
- D. Connect both controllers with common VLANs, and configure LMS/BLMS values equal to public addresses in the internet VLAN.

**ANSWER: A**

## QUESTION NO: 2

Refer to the exhibits.

Exhibit 1

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

Users
-----
   IP      MAC      Name      Role      Age(d:h:m) Auth  VPN link  AP name  Roaming  Essid/Bssid/Phy
   Profile Forward mode Type  Host Name  User Type
-----
192.168.14.101 xx:xx:xx:xx:xx:xx  guest-guest-logon  WIRELESS  00:00:32  AP1  Wireless  Guest/yy-yy-yy-yy-yy-yy/a-
```

User Entries: 1/1  
Curr/Cum Alloc:2/5 Free:0/3 DVN:2 AllocErr:0 FreeErr:0

Exhibit 2

```
(MC2) [MDC] #show rights guest-guest-logon
```

```
Valid = 'Yes'  
CleanedUp = 'No'  
Derived Role = 'guest-guest-logon'  
  Up BW:No Limit   Down BW:No Limit  
  L2TP Pool = default-l2tp-pool  
  PPTP Pool = default-pptp-pool  
  Number of users referencing it = 2  
  Periodic reauthentication: Disabled  
  DPI Classification: Enabled  
  Youtube education: Disabled  
  Web Content Classification: Enabled  
  IP-Classification Enforcement: Enabled  
  ACL Number = 98/0  
  Openflow: Enabled  
  MaxSessions = 65535  
  
Check CP Profile for Accounting = TRUE  
Captive Portal profile = default
```

## Exhibit 3

```
(MC2) [MDC] #show aaa authentication captive-portal Guest
```

```
Captive Portal Authentication Profile "Guest"
```

Parameter	Value
Default Role	guest
Default Guest Role	guest
Server Group	Guest
Redirect Pause	10 sec
User Login	Enabled
Guest Login	Disabled
Logout popup window	Enabled
Use HTTP for authentication	Disabled
Logon wait minimum wait	5 sec
Logon wait maximum wait	10 sec
Logon wait CPU utilization threshold	60%
Max Authentication failures	0
Show FQDN	Disabled
Authentication Protocol	PAP
Login page	https://cp.mycompany.com/guest/web_login.php
Welcome page	/auth/welcome.html
Show Welcome Page	Yes

## Exhibit 4

```
(MC2) [MDC] #show aaa authentication captive-portal default
```

```
Captive Portal Authentication Profile "default"
```

```
-----
Parameter                               Value
-----
Default Role                             guest
Default Guest Role                       guest
Server Group                             Guest
Redirect Pause                           10 sec
User Login                               Enabled
Guest Login                              Disabled
Logout popup window                      Enabled
Use HTTP for authentication              Disabled
Logon wait minimum wait                  5 sec
Logon wait maximum wait                  10 sec
Logon wait CPU utilization threshold     60%
Max Authentication failures               0
Show FQDN                               Disabled
Authentication Protocol                  PAP
Login page                               /auth/index.html
Welcome page                             /auth/welcome.html
Show Welcome Page                        Yes
Add switch IP addresses in the redirection URL Disabled
```

```
(MC2) [MDC] #show aaa server-group default
```

```
Fail Through: No
Load Balance: No
```

```
Auth Servers
```

```
-----
Name          Server-Type  trim-FQDN  Match-Type  Match-Op  Match-Str
-----
Internal     Internal    No
```

```
Role/VLAN derivation rules
```

```
-----
Priority  Attribute  Operation  Operand  Type  Action  Value  Validated
-----
1        role      value-of   String  set role  No
```

A captive portal-based solution is deployed in a Mobility Master (MM) - Mobility Controller (MC) network. A wireless station connects to the network and attempts the authentication process. The outputs are shown in the exhibits.

Which names correlate with the authentication and captive portal servers?

- A. ClearPass.23 is the authentication server, and cp.mycompany.com is the captive portal server.
- B. ClearPass.23 is the authentication server, and MC2 is the captive portal server.
- C. Internal database in MC2 is the authentication server, and cp.mycompany.com is the captive portal server.
- D. cp.mycompany.com is the authentication server, and ClearPass.23 is the captive portal server.

ANSWER: A

## QUESTION NO: 3

A network administrator has updated the ArubaOS code of a standalone Mobility Controller (MC) that is used for User-Based Tunneling (UBT) to a newer early release. Ever since the MC seems to reject PAPI sessions from the switch with the 10.1.10.10 IP address. Also the controller's prompt is now followed by a star mark: "(MC\_VA) [mynode] \*#"

When opening a support ticket, an Aruba TAC engineer asks the administrator to gather the crash logs and if possible replicate UBT connection attempts from the switch while running packet captures of PAPI traffic on the controller and obtain the PCAP files. The administrator has a PC with Wireshark and TFTP server using the 10.0.20.20 IP address.

What commands must the administrator issue to accomplish these requests? (Choose two.)

- A.  

```
packet-capture destination ip-address 10.0.20.20
packet-capture datapath ipsec 10.1.10.10
```
- B.  

```
show tech-support logs.tar
copy flash: logs.tar tftp: 10.0.20.20 logs.tar
copy flash: logs.tar_md5sum.txt tftp: 10.0.20.20 logs.tar_md5sum.txt
```
- C.  

```
tar logs
copy flash: logs.tar tftp: 10.0.20.20 logs.tar
copy flash: logs.tar_md5sum.txt tftp: 10.0.20.20 logs.tar_md5sum.txt
```
- D.  

```
tar crash
copy flash: logs.tar tftp: 10.0.20.20 crash.tar
copy flash: logstarmd5sum.txt tftp: 10.0.20.20 crash.tarmd5sum.txt
```
- E.  

```
packet-capture destination ip-address 10.0.20.20
packet-capture controlpath udp all
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

ANSWER: B E

## QUESTION NO: 4

Refer to the exhibit.

**Campus APs** Remote APs Mesh APs Whitelist Provisioning Rules

**Provision** 50V

**AP1**

MAC address: xxxxxxxxxxxx

Name:

AP group:  ▼

Controller discovery:  Use AP Discovery protocol (ADP)  Static

Controller IP/DNS name:

IP:  DHCP  Static

Deployment:  Campus  Remote  Mesh  Remote mesh portal

Authentication method:  ▼

Representation type:  ▼

IKE PSK:

Confirm IKE PSK:

User credential assignment:  ▼

Use automatic generation:

**Access Point List**

NAME:	IP ADDRESS:	SERIAL NUMBER:	USER NAME:	PASSWORD:	CONFIRM PASSWORD:
AP1	10.1.145.150	FR567XQ654	<input type="text" value="RAP1"/>	<input type="text" value="*****"/>	<input type="text" value="*****"/>

Wi-Fi uplink:

A network administrator has a Mobility Master (MM) Mobility Controller (MC) architecture along with the MC in the DMZ for terminating RAPs. The network firewall has been provisioned to allow access to the MC in the DMZ for both UDP 500 and 4500. Then he proceeds to provision an AP as shown in the exhibit.

Which additional configuration steps must the administrator to assure RAPs successfully contact the MC? (Choose two.)

- A. Create the RAP1 account in the InternalDB of the MC.
- B. Create an IP local pool and PSK at the device node level.
- C. Create the RAP1 account in the InternalDB of the MM.
- D. Add the RAP1 entry in the CPsec whitelist at the MM level.
- E. Create an IP local pool and PSK at the /mm/mynode level.

**ANSWER: D E**

## QUESTION NO: 5

A network administrator is in charge of a Mobility Master (MM) – Mobility Controller (MC) based WLAN. The administrator has deployed an Airwave Management Platform (AMP) server in order to improve the monitoring capabilities and generate reports and alerts.

The administrator has configured SNMPv3 and Admin credentials on both the MMs and MCs and has created Groups and Folders in the AMP server. What two additional steps must the administrator do in order to let Airwave monitor the network devices? (Choose two.)

- A. Manually add the Active MM and wait for automatic Discovery.
- B. Map the AMP's IP address with a mgmt-config profile in the MM.
- C. Set the AMP's IP address and Org string as DHCP option 43.
- D. Manually add each MM, MC and Access Point in the AMP server.
- E. Move "New" devices into a group and folder in Airwave.

**ANSWER: A B**

## QUESTION NO: 6

Refer to the exhibit.

```
(MC2) #show auth-tracebuf mac xx:xx:xx:xx:xx:xx count 27
```

```
Warning: user-debug is enabled on one or more specific MAC addresses;  
only those MAC addresses appear in the trace buffer.
```

```
Auth Trace Buffer
```

```
-----  
Jun 29 20:56:51 station-up * XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy - - wpa2 aes  
Jun 29 20:56:51 eap-id-req <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 1 5  
Jun 29 20:56:51 eap-start -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy - -  
Jun 29 20:56:51 eap-id-req <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 1 5  
Jun 29 20:56:51 eap-id-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 1 7 it  
Jun 29 20:56:51 eap-id-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 42 174 10.1.140.101  
Jun 29 20:56:51 eap-id-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 1 7 it  
Jun 29 20:56:51 rad-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy/RADIUS1 42 88  
Jun 29 20:56:51 eap-req <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 2 6  
Jun 29 20:56:51 eap-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 2 214  
Jun 29 20:56:51 rad-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy/RADIUS1 43 423 10.1.140.101  
Jun 29 20:56:51 rad-req <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy/RADIUS1 43 228  
Jun 29 20:56:51 eap-req <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 3 146  
Jun 29 20:56:51 eap-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 3 61  
Jun 29 20:56:51 rad-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy/RADIUS1 44 270 10.1.140.101  
Jun 29 20:56:51 rad-req <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy/RADIUS1 44 128  
Jun 29 20:56:51 eap-req <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 4 46  
Jun 29 20:56:51 eap-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 4 46  
Jun 29 20:56:51 rad-req -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy/RADIUS1 45 255 10.1.140.101  
Jun 29 20:56:51 rad-accept <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy/RADIUS1 45 231  
Jun 29 20:56:51 eap-success <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 4 4  
Jun 29 20:56:51 user repkey change * XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 65535 - 204c0306e79000000170008  
Jun 29 20:56:51 macuser repkey change * XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy 65535 - XX:XX:XX:XX:XX:XX  
Jun 29 20:56:51 wpa2-key1 <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy - 117  
Jun 29 20:56:51 wpa2-key2 -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy - 117  
Jun 29 20:56:51 wpa2-key3 <- XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy - 151  
Jun 29 20:56:51 wpa2-key4 -> XX:XX:XX:XX:XX:XX yy:yy:yy:yy:yy:yy - 95
```

Based on the output shown in the exhibit, which wireless connection phase has just completed?

- A. L3 authentication and encryption
- B. MAC Authentication and 4-way handshake

- C. 802.11 enhanced open association
- D. L2 authentication and encryption

**ANSWER: A**

## QUESTION NO: 7

An organization owns a fully functional multi-controller Aruba network with a Virtual Mobility Master (VMM) in VLAN20. They have asked a network consultant to deploy a redundant MM on a different server. The solution must offer the lowest convergence time and require no human interaction in case of failure.

The servers host other virtual machines and are connected to different switches that implement ACLs to protect them. The organization grants the network consultant access to the servers only, and appoints a network administrator to assist with the deployment.

What must the network administrator do so the network consultant can successfully deploy the solution? (Choose two.)

- A. Allocate VLAN20 to the second server, and extend it throughout the switches, then reserve one IP address for the second MM and another IP address for its gateway.
- B. Allocate VLAN20 to the second server, and permit routing between them, then reserve one IP address for the second MM and another IP address for its gateway.
- C. Configure an ACL entry that permits IP protocol 50, UDP port 500, and multicast IP 224.0.0.18.
- D. Allocate VLAN20 to the second server, and extend it throughout the switches, then reserve one IP address for the second MM and another for the VIP.
- E. Configure an ACL entry that permits UDP 500, TCP 4500, and multicast IP 224.0.0.5.

**ANSWER: A E**

## QUESTION NO: 8 - (HOTSPOT)

HOTSPOT

A network administrator wants to receive a major alarm every time a controller or an Aruba switch goes down for either a local or an upstream device failure. Which alarm definition must the network administrator create to accomplish this?

**Hot Area:**

## Trigger

Type:

Severity:

Limit by number of down events:  Yes  No

Send Alerts for Thin APs when Controller is Down:  Yes  No

Send Alerts when Upstream Device is Down:  Yes  No

Send Alerts on Reboot:  Yes  No  
Include reboots detected by uptime reset or reboot count increase

## Conditions

Matching conditions:  All  Any

New Trigger condition

OPTION	CONDITION	VALUE
<input type="text" value="Device Type"/>	<input type="text" value="is"/>	<input type="text" value="Router/Switch"/>
<input type="text" value="Device Type"/>	<input type="text" value="is"/>	<input type="text" value="Controller"/>

## Trigger Restrictions

Folder:

Include Subfolders:  Yes  No

Group:

## Alert Notifications

**ANSWER:**

## Trigger

Type:

Severity:

Limit by number of down events:  Yes  No

Send Alerts for Thin APs when Controller is Down:  Yes  No

Send Alerts when Upstream Device is Down:  Yes  No

Send Alerts on Reboot:  Yes  No  
Include reboots detected by uptime reset or reboot count increase

---

## Conditions

Matching conditions:  All  Any

New Trigger condition

OPTION	CONDITION	VALUE
<input type="text" value="Device Type"/>	<input type="text" value="is"/>	<input type="text" value="Router/Switch"/>
<input type="text" value="Device Type"/>	<input type="text" value="is"/>	<input type="text" value="Controller"/>

---

## Trigger Restrictions

Folder:

Include Subfolders:  Yes  No

Group:

---

## Alert Notifications

**Explanation:**

### QUESTION NO: 9

An organization has several RAPs at different locations that broadcast two SSIDs. The internet-only SSID is in bridge/always mode, and the corporate SSID is in split-tunneling/standard mode. The network administrator deploys 10 more RAPs in different locations.

Users can successfully connect to the corporate SSID that is propagated by a RAP at a remote location. However, they report that it takes too long to access public internet web sites.

What is one part of the configuration that should be checked by the network administrator to verify this RAP deployment?

- A. User roles policies
- B. IP pool
- C. Operating mode

D. Assigned VLAN

**ANSWER: A**

## QUESTION NO: 10

A network administrator assists with the migration of a WLAN from a third-party vendor to Aruba in different locations throughout the country. In order to manage the solution from a central point, the network administrator decides to deploy redundant Mobility Masters (MMs) in a datacenter that are reachable through the Internet.

Since not all locations own public IP addresses, the security team is not able to configure strict firewall policies at the datacenter without disrupting some MM to Mobility Controller (MC) communications.

They are also concerned about exposing the MMs to unauthorized inbound connection attempts.

What should the network administrator do to ensure the solution is functional and secure?

- A. Deploy an MC at the datacenter as a VPN concentrator.
- B. Block all inbound connections, and instruct the MM to initiate the connection to the MCs.
- C. Block all ports to the MMs except UDP 500 and 4500.
- D. Install a PEFV license, and configure firewall policies that protect the MM.

**ANSWER: C**