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DEMO VERSION (LIMITED CONTENT)

Questions & Answers

Version: 4.0

Question: 1

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: AB

Question: 2

A customer wants a WLAN solution that permits Aps to terminate WPA-2 encrypted traffic from different SSIDs to different geographic locations where non-related IT departments will take care of enforcing security policies. A key requirement is to minimize network congestion, overhead, and delay while providing data privacy from the client to the security policy enforcement point. Therefore, the solution must use the shortest path from source to destination.

Which Aruba feature best accommodates this scenario?

A. Inter MC S2S IPsec tunnels
B. RAPs
C. Multizone Aps
D. VIA
E. Inter MC GRE tunnels

Answer: B

Question: 3

A company plans to build a resort that includes a hotel with 1610 rooms, a casino, and a convention center. The company is interested in a mobility solution that provides scalability and a service-based approach, where they can rent the WLAN infrastructure at the convention center to any customer (tenant) that hosts events at the resort.
The solution should provide:

- Seamless roaming when users move from the hotel to the casino or the convention center
- Simultaneous propagation of the resort and customer-owned SSIDs at the convention center
- Null management access upon resort network infrastructure to the customers (tenants)
- Configuration and monitor rights of rented SSIDs to the customers (tenants)

Which deployment meets the requirements?

A. Deploy an MM-MC infrastructure with multizone AP's, with one zone for tenant SSIDs.
B. Deploy lAPs along with AirWave. and deploy role-based management access control.
C. Deploy lAPs with zone based SSIDs and manage them with different central accounts.
D. Deploy an MM-MC infrastructure, and create different hierarchy groups for MCs and APs
E. Deploy lAPs. and manage them with different central accounts.

Answer: E

Question: 4

Refer to the exhibits.

Exhibit 1

```
(MC11) [mynode] (config) #show station-table

Station Entry
-------------
    MAC                Name         Role         Age(d:h:m)  Auth  AP name  Essid          Phy   Remote  Profile   User Type
-----------            -----        ----         ----------  ----  -------  -----          ---   ------  -------   ---------
xx:xx:xx:xx:xx:xx      contractor   contractor   00:00:02    Yes   AP22     EmployeesNet   g-HT  No      Employee  WIRELESS

Station Entries: 1
(MC11) [mynode] (config) #show ap client status xx:xx:xx:xx:xx:xx

STA Table
---------
bssid              auth  assoc  aid  l-int  essid          vlan-id  tunnel-id
-----              ----  -----  ---  -----  -----          -------  ---------
xx:xx:xx:xx:xx:xx  y     y      1    1      EmployeesNet   40       0x1000d
State Hash Table
---------------
bssid              state       reason
-----              -----       ------
xx:xx:xx:xx:xx:xx  auth-assoc  0
```

Exhibit 2

```
(MC11) [mynode] (config) #show log network 10

Jun 23 23:37:18 :202541:  <5669> <DBUG> |dhcpwrap| |dhcp| Received DHCP packet from Datapath, Flags 0x100040, 0pcode 0x5a, Vlan 40, Ingress tunnel 13,
Egress vlan 40, SMAC xx:xx:xx:xx:xx:xx
Jun 23 23:37:18 :202534:  <5669> <DBUG> |dhcpwrap| |dhcp| Datapath vlan40: DISCOVER xx:xx:xx:xx:xx:xx Transaction ID:0x87g6e5bb Options 3d:05493d7f10
4vr5 0c:226962794c6573736234 3c:8h53464120952e30 94:0157940e1e2k2g2r2e2e45e5ev
Jun 23 23:37:18 :202523:  <5669> <DBUG> |dhcpwrap| |dhcp| dhcpreplay: mac=xx:xx:xx:xx:xx:xx dev=eth1 length=300, from_port=68, op=1, giaddr=0.0.0.0
Jun 23 23:37:18 :202532:  <5669> <DBUG> |dhcpwrap| |dhcp| got 1 replay servers
Jun 23 23:37:18 :202533:  <5669> <DBUG> |dhcpwrap| |dhcp| Relayed: DISCOVER server=10.254.1.21 giaddr=192.168.40.1 MAC=xx:xx:xx:xx:xx:xx
Jun 23 23:37:18 :202523:  <5669> <DBUG> |dhcpwrap| |dhcp| dhcpreplay: mac=xx:xx:xx:xx:xx:xx dev=eth1 length=300, from_port=67, op=1, giaddr=192.168.4
0.1
Jun 23 23:37:18 :202085:  <5669> <DBUG> |dhcpwrap| |dhcp| DHCPDISCOVER from xx:xx:xx:xx:xx:xx via eth1: unknown network segment
Jun 23 23:37:18 :202085:  <5669> <DBUG> |dhcpwrap| |dhcp| DHCPDISCOVER from xx:xx:xx:xx:xx:xx 192.168.40.1: unknown network segment
Jun 23 23:37:18 :202541:  <5669> <DBUG> |dhcpwrap| |dhcp| Received DHCP packet from Datapath, Flags 0x42, 0pcode 0x5a, Vlan 1, Ingress local, Egress 0/0/0,
SMAC yy:yy:yy:yy:yy:yy
Jun 23 23:37:18 :202534:  <5669> <DBUG> |dhcpwrap| |dhcp| Datapath vlan40: DISCOVER xx:xx:xx:xx:xx:xx Transaction ID:0x87g6e5bb Options 3d:05493d7f10
4vr5 0c:226962794c6573736234 3c:8h53464120952e30 94:0157940e1e2k2g2r2e2e45e5ev
```

Exhibit 3

```
(MC11) #show ip interface brief

Interface                IP Address / IP Netmask     Admin  Protocol  VRRP-IP
vlan1                    10.1.140.100 / 255.255.255.0  up     up
vlan 40                  192.168.40.1 / 255.255.255.0  up     up
loopback                 unassigned / unassigned       up     up
(MC11) #
(MC11) #show packet-capture controlpath-pcap

23:37:13.562680 IP 0.0.0.0.68 > 255.255.255.255.67: BOOTP/DHCP, Request from xx:xx:xx:xx:xx:xx, length 300
23:37:13.562887 IP 192.168.40.1.67 > 10.254.1.21.67: BOOTP/DHCP, Request from xx:xx:xx:xx:xx:xx, length 300
23:37:18.495551 IP 0.0.0.0.68 > 255.255.255.255.67: BOOTP/DHCP, Request from xx:xx:xx:xx:xx:xx, length 300
23:37:18.495998 IP 192.168.40.1.67 > 10.254.1.21.67: BOOTP/DHCP, Request from xx:xx:xx:xx:xx:xx, length 300
23:37:22.987755 IP 0.0.0.0.68 > 255.255.255.255.67: BOOTP/DHCP, Request from xx:xx:xx:xx:xx:xx, length 300
23:37:22.987894 IP 192.168.40.1.67 > 10.254.1.21.67: BOOTP/DHCP, Request from xx:xx:xx:xx:xx:xx, length 300
```

A network administrator wants to allow contractors to access the corporate WLAN named EmployeesNet with the contractor role in VLAN 40. When users connect, they do not seem to get an IP address. After some verification checks, the network administrator confirms the DHCP server (10.254.1.21) is reachable from the Mobility Controller (MC) and obtains the outputs shown in the exhibits.

What should the network administrator do next to troubleshoot this problem?

A. Permit UDP67 to the contractor role.
B. Remove the IP address in VLAN 40.
C. Configure the DHCP helper address.
D. Confirm there is an IP pool for VLAN 40.

Answer: A

Question: 5

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
---------   ----------       -----  ----    ----------  ----    --------  -------  -------  ---------------                                -------       ------------  -----
---------   -------
10.1.141.150  xx:xx:xx:xx:xx:xx  it     guest   00:00:48    802.1x            AP22     Wireless  Corp-employee/yy:yy:yy:yy:yy:yy/a-VHT  Corp-Network  tunnel        Win 10
              WIRELESS

User Entries: 1/1
  Curr/Cum Alloc:3/39  Free:0/36 Dyn:3 AllocErr:0 FreeErr:0
(MC2) [MDC] #
(MC2) [MDC] #show user ip 10.1.141.150 | include Role
This operation can take a while depending on number of users. Please be patient ....
Role: guest (how: ROLE_DEPRIVATION_DOTIX), ACL: 7/0
Role Deprivation: ROLE_DEPRIVATION_DOTIX
(MC2) [MDC] #
```

Exhibit 2

```
(MC2) [MDC] #show log security 300

Jul 4 17:32:15 :124004: <3553> <DBUG> |authmgr| Select server method=802.1x, user=it, essid=Corp-employee, server-group=Corp-Network, last_srv <>
Jul 4 17:32:15 :124038: <3553> <INFO> |authmgr| Reused server ClearPass.23 for method=802.1x; user=it, essid=Corp-employee, domain=<>, server-group=Corp-Network
Jul 4 17:32:15 :124004: <3553> <DBUG> |authmgr| aal_auth_raw (1402) (INC) : os_reqs 1, s ClearPass.23 type 2 inservice 1 markedD 0
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:152] Radius authenticate raw using server ClearPass.23
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_request.c:67] Add Request: id=22, server=ClearPass.23, IP=10.254.1.23, server-group=Corp-Network, fd=64
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2367] Sending radius request to ClearPass.23:10.254.1.23:1812 id:22, len:265
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] User-Name: it
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] NAS-IP-Address: 10.254.10.214
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] NAS-Port-Id: 0
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] NAS-Identifier: 10.1.140.101
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] NAS-Port-Type: Wireless-IEEE802.11
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] Calling-Station-Id: 814F0C517FS6
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] Called-Station-Id: 193D1247D881
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] Service-Type: Framed-User
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] Framed-MTU: 1100
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] EAP-Message: \002\011
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] State: AFMAzwACACAG9gIAfvORnQM2udKK13smu/I2DA==
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] Aruba-Essid-Name: Corp-employee
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] Aruba-Location-Id: AP22
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] Aruba-AP-Group: CAMPUS
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] Aruba-Device-Type: Win 10
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:2383] Message-Auth: d\466\487\328\679wvx\487"\642z\812P\540\115
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:95] Find Request: id=22, server=(null), IP=10.254.1.23, server-group=(null) fd=64
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:104] Current entry: server=(null), IP=10.254.1.23, server-group=(null) fd=64
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_server.c:48] Del Request: id=22, server=ClearPass.23, IP=10.254.1.23, server-group=Corp-Network, fd=64
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1228] Authentication Successful
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1230] RADIUS RESPONSE ATTRIBUTES:
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] Filter-Id: it-role
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] {Microsoft} MS-MPPE-Recv-Key: \555\554\801\861\353[1*;\877g$\574\856u\302\215\237^"\857\2257\843F\4265<\2
57R\487\016\547$\109\146\506\605:\384\603\200\716R\508\666\032\750\413\480
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] {Microsoft} MS-MPPE-Send-Key: \456\311\781\648\789i\549K\950\345\366F\276\789.7\642e\917\331\983\389\11
5\7764jD@?\763T\649\865/\339\992\587\756x\456[\487\4937u\415\308l
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] EAP-Message: \003\011
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] Message-Auth: \789,\156\734l\111\555\871\456t\478\119\752[\723\490
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] User-Name: it
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] Class: \514\678\820)\480\513C\749\0548#\648\700\438"\112\754\261
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] PW_RADIUS_ID: \026
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] Rad-Length: 231
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] PW_RADIUS_CODE: \002
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| |aaa| [rc_api.c:1245] PW_RAD_AUTHENTICATOR: \447rV\623\765/)F\894t\384\065\413\395\243\084
Jul 4 17:32:15 :121031: <3553> <DBUG> |authmgr| Authentication result= Authentication Successful(0), method=802.1x, server=ClearPass.23, user=xx:xx:xx:xx:xx:xx
```

A network administrator integrates a current Mobility Master (MM) - Mobility Controller (MC) deployment with a RADIUS server to authenticate a wireless user, the network administrator realizes that the client machine is not failing into the it_department role, as shown the exhibits.

Which configuration is required to map the users into the proper role, based on standard attributes returned by the RADIUS server in the Access Accept message?

A. aaa server-group Corp-Network
set role condition Filter-Id equals it-role set-value it_department
B. aaa server-group Corp-employee
set role condition Filter-Id value-of
C. aaa server-group Corp-employee
set role condition Filter-Id equals it-role set-value it_department
D. aaa server-group ClearPass
set role condition Filter-Id equals it_department set-value it-role
E. aaa server-group Corp-Network
set role condition Filter-Id equals it_department set-value it-role

Answer: C

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