

HPE6-A15^{Q&As}

Aruba Certified Clearpass Professional 6.5

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QUESTION 1

An employee authenticates using a corporate laptop and runs the persistent Onguard agent to send a health check back the Policy Manager. Based on the health of the device, a VLAN is assigned to the corporate laptop. Which licenses are consumed in this scenario?

- A. 1 Policy Manager license, 1 Onboard License
- B. 2 Policy Manager licenses, 1 Onguard License
- C. 1 Policy Manager license, 1 Profile License
- D. 2 Policy Manager licenses, 2 Onguard licenses
- E. 1 Policy Manager license, 1 Onguard License

Correct Answer: E

QUESTION 2

A customer with an Aruba Controller wants it to work with ClearPass Guest.

How should the customer configure ClearPass as an authentication server in the controller so that guests are able to authenticate successfully?

- A. Add ClearPass as a RADIUS CoA server.
- B. Add ClearPass as a RADIUS authentication server.
- C. Add ClearPass as a TACACS+ authentication server.
- D. Add ClearPass as an HTTPS authentication server.

Correct Answer: B

5. Configuring the Aruba Controller

5.1 Add Clearpass as RADIUS Server

Navigate to Configuration > SECURITY > Authentication > Servers Click on RADIUS Server and enter the Name of your Clearpass Server: myClearpass Click Add Click on myClearpass in the Server List Etc.

References: <https://community.arubanetworks.com/t5/Security/Step-by-Step-Controller-CPPM-6-5-Captive-Portal-authentication/td-p/229740>

QUESTION 3

Which use cases will require a ClearPass Guest application license? (Select two.)

- A. Guest device fingerprinting

- B. Guest endpoint health assessment
- C. Sponsor based guest user access
- D. Guest user self-registration for access
- E. Guest personal device onboarding

Correct Answer: CD

QUESTION 4

Refer to the exhibit.

Administration » Dictionaries » RADIUS

RADIUS Dictionaries

RADIUS Attributes

Vendor Name: Aruba (14823)

#	Attribute Name	ID	Type	In/Out
1.	Aruba-User-Role	1	String	in out
2.	Aruba-User-Vlan	2	Unsigned32	in out
3.	Aruba-Priv-Admin-User	3	Unsigned32	in out
4.	Aruba-Admin-Role	4	String	in out
5.	Aruba-Essid-Name	5	String	in out
6.	Aruba-Location-Id	6	String	in out
7.	Aruba-Port-Id	7	String	in out
8.	Aruba-Template-User	8	String	in out
9.	Aruba-Named-Vlan	9	String	in out
10.	Aruba-AP-Group	10	String	in out

Buttons: Disable, Export, Close

In the Aruba RADIUS dictionary shown, what is the purpose of the RADIUS attributes?

- A. to gather and send Aruba NAD information to ClearPass
- B. to gather information about Aruba NADs for ClearPass
- C. to send information via RADIUS packets to Aruba NADs
- D. to send information via RADIUS packets to clients

E. to send CoA packets from ClearPass to the Aruba NAD

Correct Answer: C

QUESTION 5

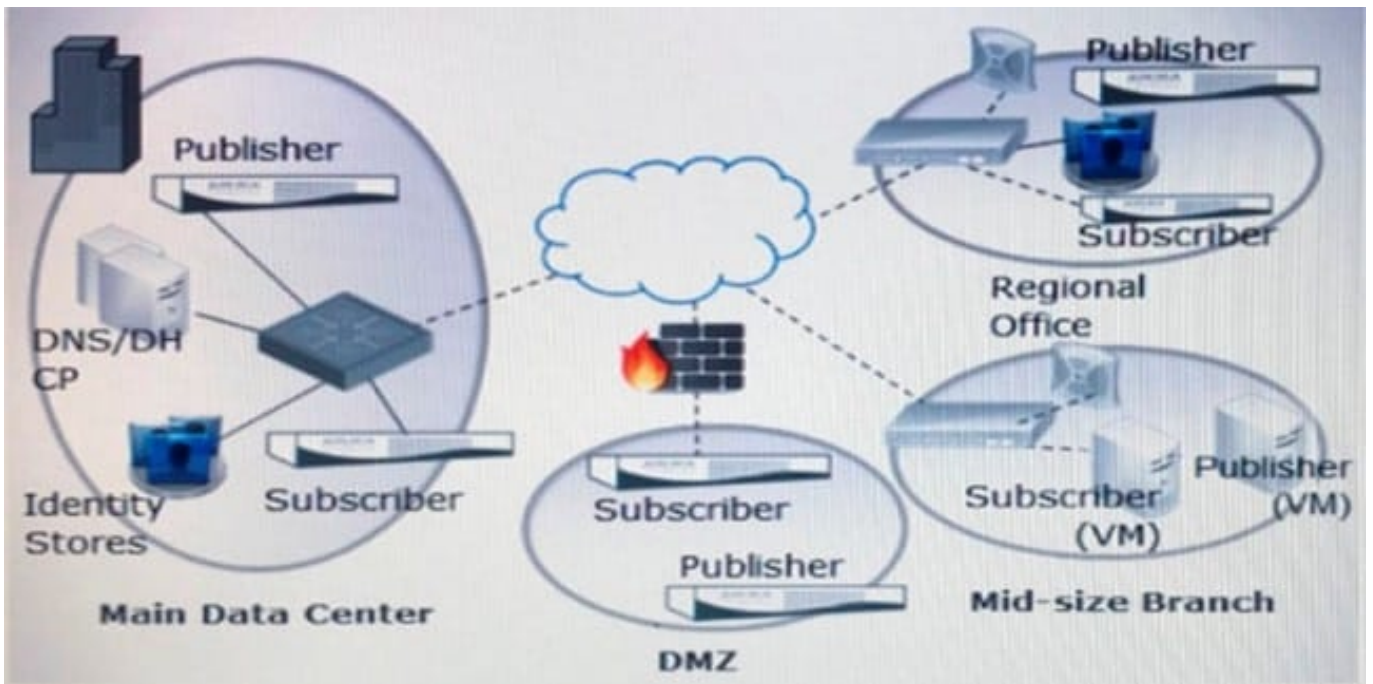
What is the purpose of the Audit Viewer in the Monitoring section of ClearPass Policy Manager?

- A. to audit client authentications
- B. to display changes made to the ClearPass configuration
- C. to display the entire configuration of the ClearPass Policy Manager
- D. to audit the network for PCI compliance
- E. to display system events like high CPU usage.

Correct Answer: B

QUESTION 6

Refer to the exhibit.



A customer wants to enable Publisher redundancy.

Based on the network topology diagram shown, which node should the network administrator configure as the standby Publisher for the Publisher in the main data center?

- A. Subscriber in the main data center

- B. Publisher in the regional office
- C. any of the other three Publishers
- D. Publisher in the mid-size branch
- E. Publisher in the DMZ

Correct Answer: A

ClearPass Policy Manager allows you to designate one of the subscriber nodes in a cluster to be the Standby Publisher, thereby providing for that subscriber node to be automatically promoted to active Publisher status in the event that the Publisher goes out of service. This ensures that any service degradation is limited to an absolute minimum.

References: http://www.arubanetworks.com/techdocs/ClearPass/Aruba_DeployGd_HTML/Content/5%20Cluster%20Deployment/Standby_publisher.htm

QUESTION 7

Refer to the exhibit.

View Endpoint			
MAC Address	98b8e362fddf	IP Address	192.168.1.252
Description		Static IP	FALSE
Status	Unknown	Hostname	
Added by	Policy Manager	MAC Vendor	Apple
		Category	SmartDevice
		OS Family	Apple
		Device Name	Apple iPad
		Updated At	Apr 10, 2013 19:47:28 UTC
		Show Fingerprint	<input checked="" type="checkbox"/>
Endpoint Fingerprint Details			
Host User Agent	Mozilla/5.0 (iPad; CPU OS 6_0_2 like Mac OS X) AppleWebKit/536.26 (KHTML, like Gecko) Version/6.0 Mobile/10A8500 Safari/8536.25		
DHCP Option55	["1,3,6,15,119,252"]		
DHCP Options	["53,55,57,61,50,51,12"]		

Based on the Endpoint information shown, which collectors were used to profile the device as Apple iPad? (Select two.)

- A. HTTP User-Agent
- B. SNMP
- C. DHCP fingerprinting
- D. SmartDevice
- E. OnGuard Agent

Correct Answer: AC

HTTP User-Agent

In some cases, DHCP fingerprints alone cannot fully classify a device. A common example is the Apple family of smart devices; DHCP fingerprints cannot distinguish between an Apple iPad and an iPhone. In these scenarios, User-Agent strings sent by browsers in the HTTP protocol are useful to further refine classification results.

User-Agent strings are collected from:

*

ClearPass Guest

*

ClearPass Onboard

*

Aruba controller through IF-MAP interface

Note: Collectors are network elements that provide data to profile endpoints. The following collectors send endpoint attributes to Profile:

*

DHCP DHCP snooping Span ports

*

ClearPass Onboard

*

HTTP User-Agent

*MAC OUI ?Acquired via various auth mechanisms such as 802.1X, MAC auth, etc.

*

ActiveSync plugin

*

CPPM OnGuard

*SNMP

*

Subnet Scanner

*

IF-MAP

*

Cisco Device Sensor (Radius Accounting)

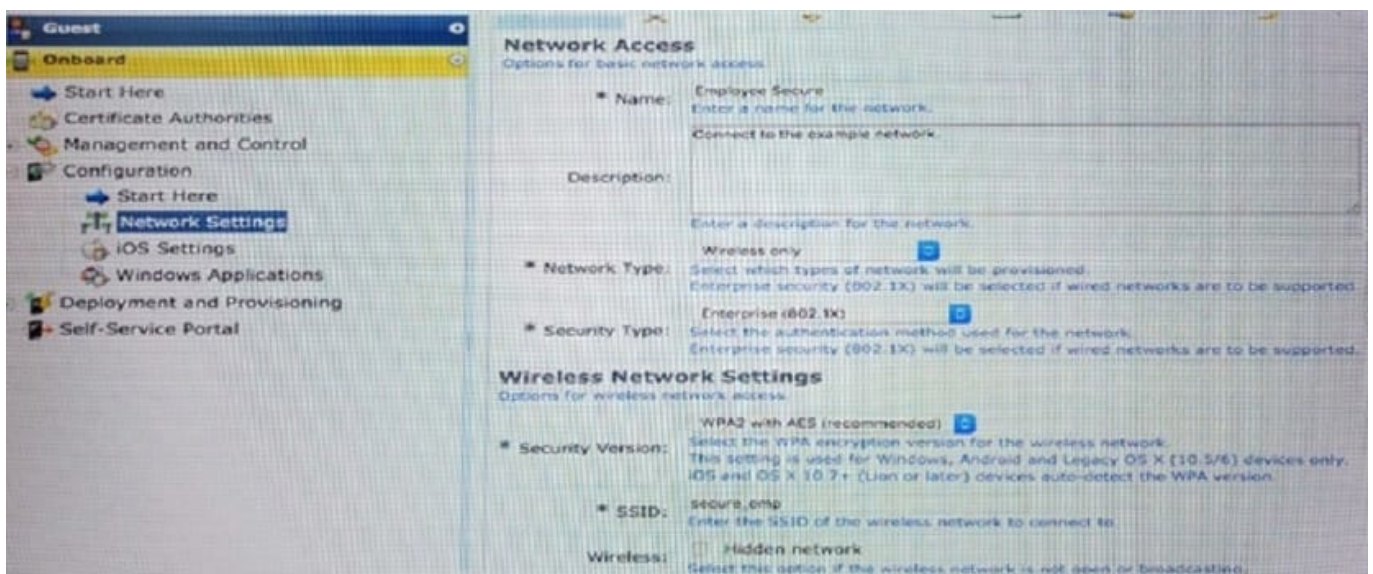
*

MDM

References: Tech Note: ClearPass Profiling (2014), page 11 <https://community.arubanetworks.com/aruba/attachments/aruba/ForoenEspanol/653/1/ClearPass%20Profiling%20TechNote.pdf>

QUESTION 8

Refer to the exhibit.



Which statements accurately describe the status of the Onboarded devices in the configuration for the network settings shown? (Select two.)

- A. They will connect to Employee_Secure SSID after provisioning.
- B. They will connect to Employee_Secure SSID for provisioning their devices.
- C. They will use WPA2-PSK with AES when connecting to the SSID.
- D. They will connect to secure_emp SSID after provisioning.
- E. They will perform 802.1X authentication when connecting to the SSID.

Correct Answer: DE

QUESTION 9

What is the certificate format PKCS #7, or .p7b, used for?

- A. Certificate Signing Request

- B. Binary encoded X.509 certificate
- C. Binary encoded X.509 certificate with public key
- D. Certificate with an encrypted private key
- E. Certificate chain

Correct Answer: E

The PKCS#7 or P7B format is usually stored in Base64 ASCII format and has a file extension of .p7b or .p7c. P7B certificates contain "-----BEGIN PKCS7-----" and "-----END PKCS7-----" statements. A P7B file only contains certificates and chain certificates, not the private key. Several platforms support P7B files including Microsoft Windows and Java Tomcat.

References: <https://community.arubanetworks.com/t5/Controller-Based-WLANs/Various-Certificate-Formats/ta-p/176548>

QUESTION 10

Refer to the exhibit.

Summary	Policy	Mapping Rules
Policy:		
Policy Name:	WLAN role mapping	
Description:		
Default Role:	[Guest]	
Mapping Rules:		
Rules Evaluation Algorithm: First applicable		
Conditions	Role Name	
1. (Authorization:remotelab AD:Department EQUALS Product Management) OR (Authorization:remotelab AD:UserDN EQUALS Executive)	Executive	
2. (Authorization:[Endpoints Repository]:OS Family EQUALS_IGNORE_CASE Windows)	Vendor	
3. (Authorization:[Endpoints Repository]:Category CONTAINS SmartDevice) AND (Authorization:[Endpoints Repository]:OS Family EQUALS_IGNORE_CASE Apple)	iOS Device	
4. (Authorization:remotelab AD:UserDN EXISTS) (Authorization:remotelab AD:Department EQUALS HR)	[Employee]	
5. OR (Connection:NAD-IP-Address BELONGS_TO_GROUP HQ) OR (Date:Day-of-Week NOT_BELONGS_TO Saturday, Sunday) (Host:OSType CONTAINS Fedora)	HR Local	
6. (Host:OSType CONTAINS Fedora) OR (Host:OSType CONTAINS Redhat) OR (Host:OSType CONTAINS Ubuntu)	Linux User	

An AD user's department attribute value is configured as "Product Management". The user connects on Monday to a NAD that belongs to the Device Group HQ. Which role is assigned to the user in ClearPass?

- A. HR Local

- B. [Guest]
- C. [Employee]
- D. Linux User
- E. Executive

Correct Answer: E

The conditions of the Executive Role is met.

QUESTION 11

Refer to the exhibit.

Captive Portal Authentication Profile > default		Show Reference	Save As	Reset
Default Role	guest ▼	Default Guest Role	guest ▼	
Redirect Pause	10 sec	User Login	<input checked="" type="checkbox"/>	
Guest Login	<input type="checkbox"/>	Logout popup window	<input checked="" type="checkbox"/>	
Use HTTP for authentication	<input type="checkbox"/>	Logon wait minimum wait	5 sec	
Logon wait maximum wait	10 sec	logon wait CPU utilization threshold	60 %	
Max Authentication failures	0	Show FQDN	<input type="checkbox"/>	
Use CHAP (non-standard)	<input type="checkbox"/>	Login page	/auth/index.html	
Welcome page	/auth/welcome.html	Show Welcome Page	<input checked="" type="checkbox"/>	
Add switch IP address in the redirection URL	<input type="checkbox"/>	Allow only one active user session	<input type="checkbox"/>	
While List	<input type="text"/> <input type="button" value="Delete"/> <input type="button" value="Add"/>	Black List	<input type="text"/> <input type="button" value="Delete"/> <input type="button" value="Add"/>	
Show the acceptable use policy page	<input type="checkbox"/>			

Based on the information shown, which field in the Captive Portal Authentication profile should be changed so that guest users are redirected to a page on ClearPass when they connect to the Guest SSID?

- A. both Login and Welcome Page
- B. Default Role
- C. Welcome Page

D. Default Guest Role

E. Login Page

Correct Answer: E

The Login page is the URL of the page that appears for the user logon. This can be set to any URL.

The Welcome page is the URL of the page that appears after logon and before redirection to the web URL. This can be set to any URL.

References: http://www.arubanetworks.com/techdocs/ArubaOS_63_Web_Help/Content/ArubaFrameStyles/Captive_Portal/Captive_Portal_Authentic.htm

QUESTION 12

What is the purpose of Operator Profiles?

- A. to enforce role based access control for Aruba Controllers
- B. to enforce role based access control for ClearPass Policy Manager admin users
- C. to enforce role based access control for ClearPass Guest Admin users
- D. to assign ClearPass roles to guest users
- E. to map AD attributes to admin privilege levels in ClearPass Guest

Correct Answer: C

An operator profile determines what actions an operator is permitted to take when using ClearPass Guest.

References: http://www.arubanetworks.com/techdocs/ClearPass/CPGuest_UG_HTML_6.5/Content/OperatorLogins/OperatorProfiles.htm

QUESTION 13

Configuration » Enforcement » Policies » Edit - Vlan enforcement

Enforcement Policies - Vlan enforcement

Summary | Enforcement | Rules

Enforcement:

Name: Vlan enforcement
Description:
Enforcement Type: RADIUS
Default Profile: Internet VLAN

Rules:

Rules Evaluation Algorithm: First applicable

Conditions	Actions
1. (Tips:Role EQUALS Engineer) AND (Date:Day-of-Week BELONGS_TO Monday, Tuesday, Wednesday, Thursday, Friday) AND (Connection:Protocol EQUALS RADIUS)	Full Access VLAN
2. (Tips:Role EQUALS Manager) AND (Connection:Protocol BELONGS_TO RADIUS, TACACS, WEBAUTH, Application)	Full Access VLAN
3. (Tips:Role EQUALS Engineer) AND (Connection:Protocol BELONGS_TO WEBAUTH)	Employee Vlan

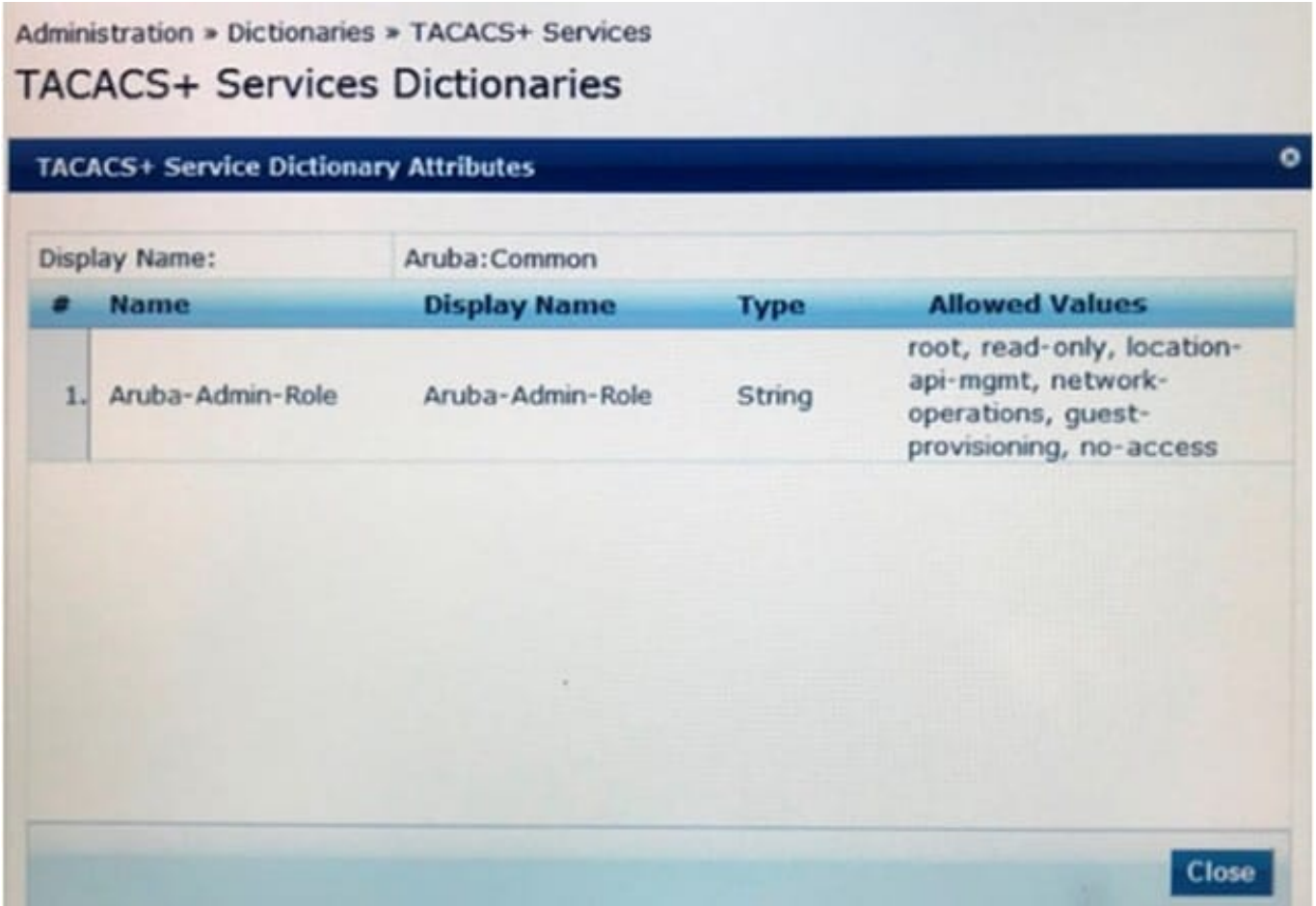
Based on the Policy configuration shown, which VLAN will be assigned when a user with ClearPass role Engineer authenticates to the network successfully using connection protocol WEBAUTH?

- A. Deny Access
- B. Employee VLAN
- C. Internet VLAN
- D. Full Access VLAN

Correct Answer: B

QUESTION 14

Refer to the exhibit.



Based on the Aruba TACACS+ dictionary shown, how is the Aruba-Role attribute used?

- A. The Aruba-Admin-Role on the controller is applies to users using TACACS+ to login to the Policy Manager
- B. To assign different privileges to clients during 802.1X authentication
- C. To assign different privileges to administrators logging into an Aruba NAD
- D. It is used by ClearPass to assign TIPS roles to clients during 802.1X authentication
- E. To assign different privileges to administrators logging into ClearPass

Correct Answer: C

QUESTION 15

Which authentication protocols can be used for authenticating Windows clients that are Onboarded? (Select two.)

- A. EAP-GTC
- B. PAP
- C. EAP-TLS

D. CHAP

E. PEAP with MSCHAPv2

Correct Answer: CE

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