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Vendor: HP

Exam Code: HP2-Z32

Exam Name: Implementing HP MSM Wireless Networks

Version: Demo

QUESTION 1

A network administrator deploys several HP MSM APs and an HP MSM Controller. The APs discover the controller, establish management tunnels, and become synchronized. The administrator wants to check some settings on one of the APs and attempts to reach its web browser interface, but the request times out.

However, a ping to the AP succeeds.

What explains this behavior?

- A. The global setting for controlled AP provisioning is disabled.
- B. The APs' Web interfaces are not available after they become managed by the controller.
- C. The APs' Web management tool features have been disabled either at the AP group level or the controlled AP level.
- D. The controller has deployed an access control list (ACL) to the AP. The management station's address must be added to this list.

Correct Answer: C

QUESTION 2

A company is deploying an HP MSM760 Controller that will control approximately 80 HP MSM APs. The HP MSM solution will provide wireless guest services and a WLAN for employees, which is secured with WPA2 and 802.1X.

The controller will perform the following functions:

- Handle all guest traffic
- Provide DHCP services for guest clients
- Force guests to log in through a web page and implement access controls

How should the network administrator connect the controller to the corporate LAN?

- A. The administrator must connect both the LAN port and the Internet port, and the ports must be in different VLANs.
- B. The administrator can connect either the LAN port or the Internet port, or both ports, but it is typically recommended to connect the Internet port.
- C. The administrator must connect both the LAN port and the Internet port, and the ports must be in the same VLAN.
- D. The administrator must connect only the LAN port.

Correct Answer: D

QUESTION 3

A network administrator maps a network profile with aVLAN ID 512 to the LAN port of an HP MSM765zl Mobility Controller. The network administrator configures an IP interface for this profile and intends to contact and manage the controller on this interface.

All other settings remain at default.

What is one step that the network administrator must complete before connecting to the controller on its new IP address?

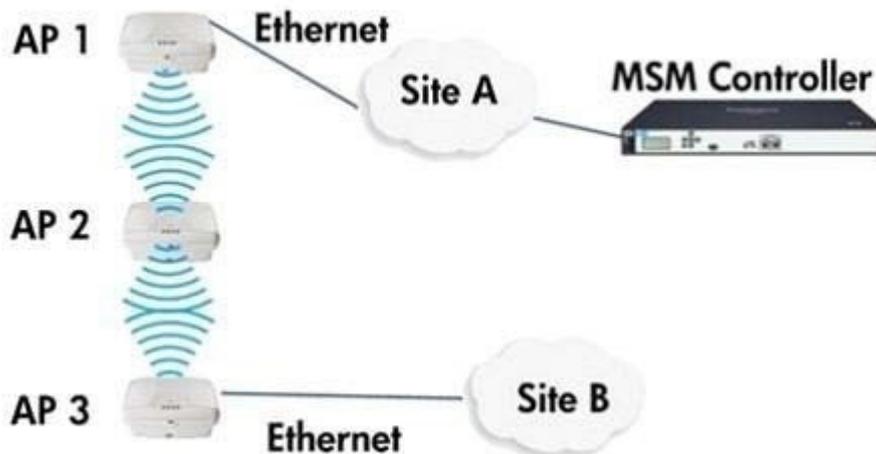
- A. Set the untagged LAN port network interface IP address to none.
- B. Enable Spanning Tree Protocol (STP) on the interface.
- C. Select the new IP interface as an active interface in the Controller »Management»; Management tool window
- D. Set the IP interface as the authorized egress VLAN in the default VSC.

Correct Answer: D

QUESTION 4

Refer to the exhibit.

Wireless local mesh



A network administrator needs to configure a local mesh between the three APs shown in the exhibit.

The network administrator configured AP1 for the master role. What are valid roles for AP 2 and AP 3?

- A. 2 = Alternate Master; 3 - Slave
- B. 2 = Slave; 3 = Alternate Master
- C. 2 = Slave; 3 = Master
- D. 2 = Slave; 3 = Slave

Correct Answer: C

QUESTION 5

HP MSM APs support a VSC that specifies 54 Mbps as the highest supported data rate. Several clients connect to the WLAN associated with this VSC.

What is the throughput and bandwidth that the clients experience?

- A. All clients connected to an AP radio share a throughput of less than 54 Mbps, but a client can transmit or receive at 54 Mbps.
- B. When multiple clients connect to an AP radio, each of those clients is limited to 54 Mbps.
- C. All clients connected to the VSC share a total of 54 Mbps of throughput regardless of how many AP radios support the VSC.
- D. When multiple clients connect to an AP radio, each client typically receives about 50 Mbps throughput.

Correct Answer: B

QUESTION 6

A company has an HP MSM solution with an MSM Controller and APs.

The company requires a WLAN that enforces WPA2 with 802.1X authentication. The company has a RADIUS server that will authenticate wireless users. The RADIUS server administrators would prefer to define just one RADIUS client on the server. Which VSC setting should the MSM administrator plan for this scenario?

- A. Centralized access control (Use the Controller for Access control option)
- B. Preshared encryption keys for WPA2 encryption (Preshared Key for Key source)
- C. Centralized authentication (Use the Controller for Authentication option)
- D. Local authentication (Local setting for 802.1X authentication)

Correct Answer: D

QUESTION 7

Which feature should you enable to enhance Layer 2 (L2) roaming?

- A. Seamless roaming
- B. Rapid authentication
- C. WPA2 Opportunistic Key Caching
- D. Single network AP hopping

Correct Answer: C

QUESTION 8

What is the maximum number of E-MSM controllers that can be configured into a single team?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

Correct Answer: E

QUESTION 9

What are the major benefits of creating a team of controllers? (Select two.)

- A. Controller redundancy
- B. Flow support
- C. Local DHCP support
- D. PPTP client and server support
- E. Single IP management of all team controllers

Correct Answer: AE

QUESTION 10

When would the IP address of the Internet port on an MSM controller be set to "No Address"?

- A. when NAT is enabled
- B. when only authenticated traffic is passing through the Internet port Get Latest & Actual HP2- Z32
- C. when NAT is disabled
- D. when only VLAN traffic is passing through the Internet port

Correct Answer: D

QUESTION 11

In order to create a new VLAN in an MSM controller configuration, which path should you take to access the correct screen?

- A. VSCs>[select a VSC]>VSC Profile
- B. VSCs>VSC bindings>VLANs
- C. Controller>Management>VLANs
- D. Controller>Network>Ports

Correct Answer: D

QUESTION 12

When Centralized Access Control is configured as Automatic, when is a user data tunnel created?

- A. when more than one controller is on the network that has the same access control configuration
- B. when tunnels are manually configured and available
- C. when IPsec is set up between two controllers
- D. when a synchronized AP and its controller are on different subnets

Correct Answer: D

QUESTION 13

What distinguishes an HP MSM460 AP from an HP MSM430 AP?

- A. The MSM460 radios support 802.11n, while the MSM430 radios only support 802.11b/g/a.
- B. All radios on an MSM460 support 802.11n, while only one radio on an MSM430 supports this standard.
- C. The MSM460 radios support three spatial streams, while the MSM430 radios support two spatial streams.
- D. The MSM460 supports 802.11n with MIMO on all radios, while the MSM430 supports 802.11n without MIMO.

Correct Answer: C

QUESTION 14

An MSM administrator creates an access-controlled VSC, which is not the default VSC, on a standalone MSM Controller. The controller should implement DHCP relay on this VSC; clients will receive IP addresses from an external DHCP server. The DHCP scope for the clients uses 192.168.1.0/24 and sets the default gateway to 192.168.1.1. The 192.168.1.0/24 subnet is reserved for the wireless clients and does not exist in the LAN.

Which requirement applies to this scenario?

- A. The guests must log into a web page hosted on an external server to authenticate on this VSC.
- B. The 192.168.1.0/24 subnet must be configured on the controllers LAN port.
- C. The DHCP server, or its default gateway, needs a route to 192.168.1.0/24 through the MSM Controller.
- D. The APs that support this VSC must receive IP addresses from the same DHCP server as the clients.

Correct Answer: A

QUESTION 15

A company has two MSM760 Controllers that form a team. Some of the company's APs connect in remote offices and require Layer 3 discovery settings. The company has selected the DHCP option for Layer 3 discovery.

What should be included in the DHCP option list?

- A. The team manager's IP address (the manager's actual IP address on the teaming subnet)
- B. Both controllers' IP addresses on an interface on which AP discovery is enabled
- C. The team's IP address (the virtual address hosted by the team manager)
- D. The hostname that is mapped to the team manager's IP address

Correct Answer: C

QUESTION 16

A company has an HP MSM solution that consists of an HP MSM760 Access Controller and controlled HP MSM APs. The solution includes a VSC that enforces local Web-Auth (HTML-based user login) using web pages and guest accounts configured on the controller. The company wants to prevent guests from logging in after normal business hours. Which action describes the correct setting to meet these requirements?

- A. Create a subscription plan that specifies the valid login times, and apply the plan to the guest accounts.
- B. Configure the valid login times in a RADIUS server policy, which then apply to the site or to individual

user accounts.

- C. Set the valid login times in the Virtual Service Community (VSC) used by guests.
- D. Set the valid login times in the global access control settings of the controller (Controller? Public access > Access control).

Correct Answer: C

QUESTION 17

Which devices negotiate the Extensible Authentication Protocol (EAP) method during the 802.1X authentication process?

- A. only the station and authentication server
- B. the station, authenticator, and authentication server
- C. only the authenticator and authentication server
- D. only the station and authenticator

Correct Answer: B

QUESTION 18

A company CEO hears about Hole 196 and is concerned that WPA/WPA2 will not protect the company's wireless communications from eavesdroppers.

Which statement accurately describes this vulnerability?

- A. Hole 196 exploits a weakness in the WPA encryption algorithm but does not compromise WPA2.
- B. Hole 196 allows an unauthorized user to spoof MAC addresses and detect the Group Transient Key (GTK).
- C. Hole 196 exploits a weakness in both the WPA/WPA2 encryption algorithm, but a user can download a patch from their station or AP vendor.
- D. Hole 196 allows malicious authorized users to implement attacks such as ARP poisoning.

Correct Answer: D

QUESTION 19

Which 802.11 frames can be sent at any supported rate (as opposed to the basic rate)?

- A. Broadcast frames
- B. Management frames
- C. Multicast frames
- D. Unicast frames

Correct Answer: D

QUESTION 20

The MSM APs in an MSM solution are configured to use Automatic Channel Selection (ACS) on their 2.4 GHz radios. Which adjustment would cause the ACS to function more efficiently?

- A. Enabling channel bonding
- B. Selecting all of the channels that are allowed in the corresponding country and area
- C. Excluding all channels except the three channels that are valid for the environment
- D. Configuring ACS to run multiple times per day

Correct Answer: B

QUESTION 21

Which EAP method requires the supplicant and the authentication server to mutually authenticate with digital certificates?

- A. EAP-TLS
- B. EAP-SIM
- C. EAP-TTLS
- D. EAP-PEAP

Correct Answer: A

QUESTION 22

What is the primary difference between AES-CCMP and TKIP?

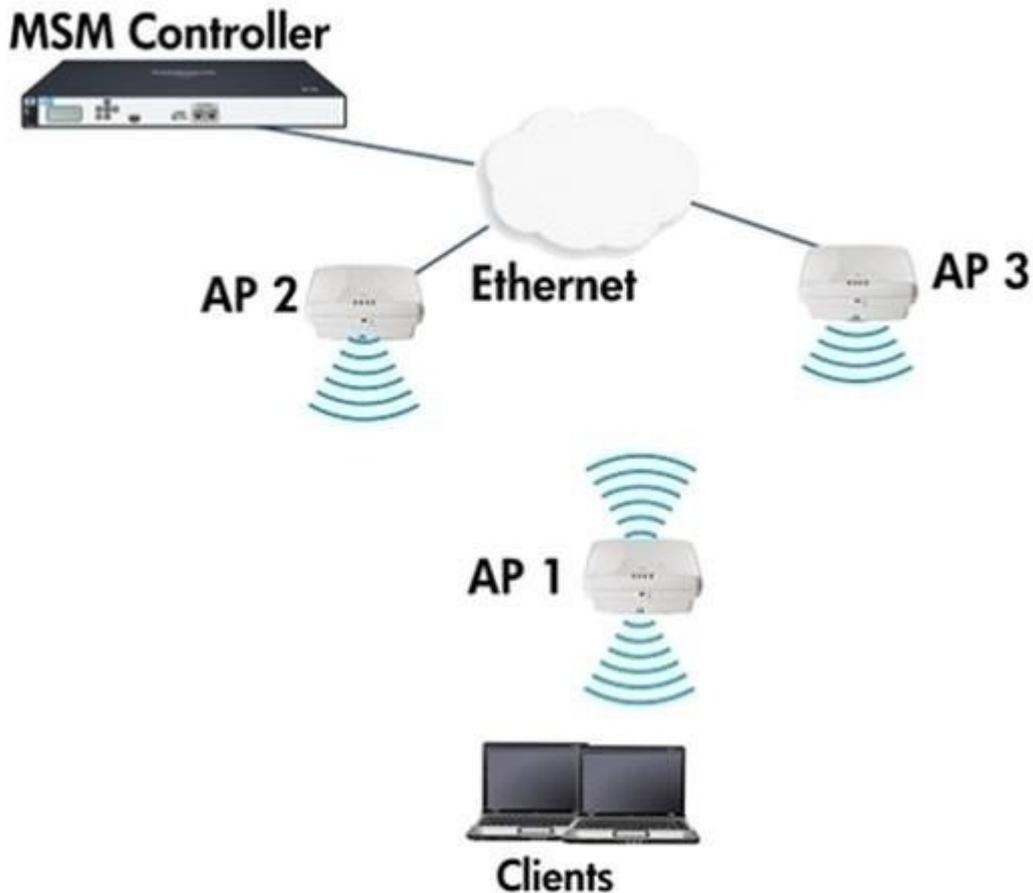
- A. With AES-CCMP, each station generates its PMK as part of the 802.1X authentication process.
- B. With TKIP, the station uses the same key to secure data and the MIC.
- C. AES-CCMP uses a 254-bit key stream, while TKIP uses a 128-bit key stream.
- D. AES-CCMP uses a stronger encryption algorithm than that provided by TKIP.

Correct Answer: D

QUESTION 23

Refer to the exhibit.

Wireless local mesh:



A network administrator needs to configure a dynamic wireless mesh to connect HP MSM AP 1 to the network.

AP 1 will be installed outdoors where Ethernet is not available. It will connect to AP2ortoAP3; one of which will provide the primary link and one of which will act as backup. Both AP 2 and AP 3 have connections to the Ethernet network and should not connect to each other.

What are appropriate roles for the three APs?

- A. 1 = Slave; 2 = Alternate master; 3 = Alternate master
- B. 1 = Slave; 2 = Master 3 = Alternate master
- C. 1 = Slave; 2 = Master; 3 = Master
- D. 1 = Alternate master; 2 = Alternate master; 3 = Alternate master

Correct Answer: B

QUESTION 24

The MSM APs are deployed on a separate subnet from the controller and network administrators want to set up Layer 3 DHCP discovery.

How will the MSM APs find the MSM Controller?

- A. A vendor option in the DHCP scope lists one or more controller IP addresses.
- B. The MSM Controller sends unicast messages to the MSM APs.
- C. Once the APs receive an IP address from the DHCP server, they broadcast UDP discovery messages.
- D. The MSM Controller is configured as the MSM APs' default gateway, allowing APs to send a discovery request to the MSM Controller

Correct Answer: C

QUESTION 25

A company has an HP MSM solution that consists of an HP MSM760 Controller and controlled HP MSM APs. The solution supports a VSC that enforces HTML-based user login (Web->Auth) using the controller's internal login pages. The company wants users to see the login page, read a legal agreement, and then click a button to receive free access. For this purpose, the company Web designer customizes the appearance of the login page but does not alter the underlying code.

How should the network administrator configure authentication in the VSC?

- A. by enabling HTML-based user logins and specifying the remote option with a RADIUS server as the server
- B. by disabling HTML-based user logins
- C. by enabling HTML-based user logins and specifying the local option
- D. by enabling HTML-based user logins and specifying the remote option with GMS as the server

Correct Answer: C

QUESTION 26

Which 802.11n technology involves a radio transmitting the same data on more than one antenna?

- A. channel bonding
- B. band steering
- C. multiple spatial streaming
- D. transmit beam forming

Correct Answer: C

QUESTION 27

A customer has 600 APs and requires N+1 redundancy for the wireless services.

Which teaming solution meets the customer's needs?

- A. Four MSM760 Controllers with 600 licenses total
- B. Three MSM760 Controllers with 800 licenses total
- C. Four MSM760 Controllers with 900 licenses total
- D. Three MSM760 Controllers with 600 licenses total

Correct Answer: A

QUESTION 28

A company has an HP MSM solution that consists of an HP MSM Controller and controlled HP MSM APs. An access-controlled VSC enforces HTML-based user login (Web-Auth) using the controllers internal login pages. Many clients that will connect to this VSC are configured for Web proxy to a server on port 8080. The network administrator has enabled the HTTP/HTTPS proxy support feature.

Which additional step should the administrator take to help these clients log in and use the network?

- A. Enable DNS interception.
- B. Enable redirection to the public access interface through HTTP rather than HTTPS.
- C. Change the port used for HTTP on the controller's public access interface.
- D. Create MAC-address public access attributes for the clients with the proxy settings.

Correct Answer: B

QUESTION 29

How do HP MSM products, which support the optimized WLAN architecture, forward client traffic onto the wired network?

- A. The APs always forward traffic directly onto the wired network, thereby optimizing the traffic flow.
- B. The controller always forwards traffic onto the wired network, thereby simplifying management and improving security.
- C. While an individual AP must either forward all traffic locally or forward all traffic to the controller, different APs can exhibit different behaviors based on the needs of the company.
- D. The APs can forward traffic for some VSCs directly onto the wired network and forward traffic for tunneled or access-controlled VSCs to the controller.

Correct Answer: D

QUESTION 30

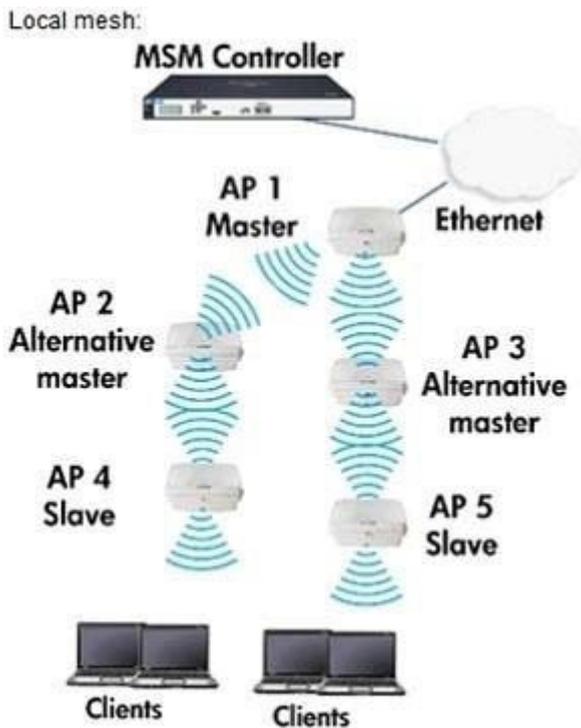
When should a company deploy HP M111 Client Bridges?

- A. when the company has legacy devices that support Ethernet, but the devices need to connect to 802.11g APs
- B. when the company wants to deploy APs that support 802.11n in the 5 GHz band, though some client devices only support the 2.4 GHz band
- C. when the company needs to monitor client transmissions as part of an integrated wireless intrusion detection system/intrusion prevention system (IDS/IPS)
- D. when the company has multiple small sites that require only one AP to provide coverage but need that AP to support guest services locally

Correct Answer: A

QUESTION 31

APs. What could occur if AP 2 fails?



- A. AP 1 establishes a session with AP 3.
- B. AP 1 establishes a session with AP 4.
- C. AP 4 establishes a session with AP 5.
- D. AP 4 establishes a session with AP 3.

Correct Answer: D

QUESTION 32

The 802.11n radio in one AP supports three spatial streams. The 802.11n radio in another AP supports two spatial streams.

What is one benefit of the first AP radio over the second AP radio?

- A. Each spatial stream carries a separate stream of data, increasing bandwidth.
- B. Each spatial stream operates on a slightly different frequency, increasing reliability and resilience to interference.
- C. Each spatial stream carries the same stream of data, increasing reliability.
- D. Each spatial stream can be directed toward a different client, increasing the bandwidth for more clients.

Correct Answer: B

QUESTION 33

Which feature differentiates the default VSC from other VSCs that are configured on an MSM Controller?

- A. Traffic from the default VSC is always routed out the Internet port.
- B. The default VSC can be used to control untagged wired traffic that is received on the LAN port.
- C. The default VSC must always be access controlled.
- D. Wireless clients that fail authentication to another VSC are assigned to this VSC.

Correct Answer: B

QUESTION 34

Two HP MSM Controllers have established a team. The team manager fails. Which statements correctly describe the failover behavior? (Select two.)

- A. APs managed by the team manager no longer appear in the team's web browser interface, but the APs continue to support non-access-controlled APs.
- B. Clients connected to non-access controlled VSCs do not experience any loss of connectivity.
- C. Administrators can continue to configure settings on the team by using the interim manager.
- D. Clients connected to access-controlled VSCs do not experience any loss of connectivity.
- E. Administrators can contact the team IP address and monitor controlled APs in the web browser interface.

Correct Answer: CE

QUESTION 35

A company has an MSM solution that includes an MSM760 Controller and MSM APs. The VSC for the employees does not use the controller for access control. Employees' wireless clients should be assigned to VLAN 10.

How should the MSM administrator define the VLAN 10 setting?

- A. As an authorized egress VLAN in the VSC
- B. As an IP interface on the controller's Internet port
- C. As an egress VLAN in the VSC binding for the AP group
- D. As an ingress VLAN in the VSC

Correct Answer: C

QUESTION 36

Which standard supports channel bonding?

- A. 802.11g
- B. 802.11n
- C. 802.11a
- D. 802.11b

Correct Answer: B

QUESTION 37

Which packets do the AP and the client exchange during the 802.1X authentication process?

- A. RADIUS packets
- B. EAP packets
- C. DHCP packets
- D. HTTP or HTTPS packets

Correct Answer: B

QUESTION 38

A network administrator wants to use a dedicated link for teaming communications between two HP MSM720 Controllers. In each MSM720's teaming settings, the administrator selects port 4 and sets the VLAN ID to 101. What is the correct setting for the port 4 network profile?

- A. A network profile without a VLAN ID
- B. A network profile with a VLAN ID that is not used in any another profile
- C. A network profile with VLAN ID 101
- D. The default network profile (Access network)

Correct Answer: C

QUESTION 39

Refer to the exhibit.

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