

HPE6-A47^{Q&As}

Designing Aruba Solutions

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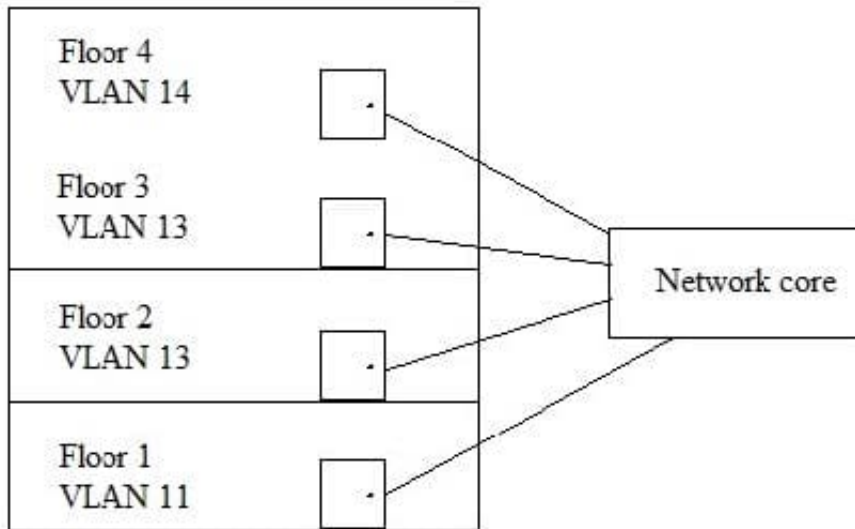
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QUESTION 1

Refer to the exhibit.



A customer needs to upgrade the wireless network at their campus, which has a single large building. Employees use the wireless network to access the Internet and centralized services. The building has four floors. These are the requirements: 30 APs on each floor A Mobility Master (MM)-based architecture Deployment of one Aruba 7030 Mobility Controller (MC) on each floor, with the MCs combined in a cluster for seamless client failover and roaming

What should the architect explain to the customer about the proposed solution?

- A. MCs should be deployed centrally on the same VLAN to better meet these goals
- B. MCs in a cluster must have additional AP licenses to support APs of a failed controller
- C. The MC 7030 does not support enough APs for the requirements
- D. The MC 7030 only supports clusters with up to three members

Correct Answer: A

QUESTION 2

A customer needs an 802.11ac upgrade for an office with cubicles. The customer states that, because they planned locations for the existing 802.11n APs so that there are no coverage holes, they will simply deploy the new 802.11ac APs in the same location as the existing APs. The customer plans to support mobile devices in addition to laptops.

What should the architect explain about why a site survey is desirable to determine the optimal locations for the new APs?

- A. An 802.11ac deployment typically works better with side-mounted, rather than ceiling-mounted, APs, and a site survey will help determine the new mounting locations.

B. The new 802.11ac deployment should have a capacity-based design for the best performance, but the existing deployment sounds like a coverage-based design.

C. 802.11ac AP radios tend to be more sensitive to 2.4 GHz interference than 802.11n APs, so the architect needs to search for all potential sources of such interference.

D. 802.11ac APs can support a higher density of clients, so they can be deployed farther apart than the APs in most existing 802.11n deployments.

Correct Answer: A

QUESTION 3

An architect plans 12 APs for an auditorium that is 325 square meters (3, 498 square feet). Each AP has one 2.4 GHz radio and one 5 GHz radio. Both types of radios use 20 MHz channels.

Assume that DFS channels can be used in this design.

How many 5 GHz collision domains does this design provide?

A. 1

B. 6

C. 12

D. 25

Correct Answer: B

QUESTION 4

Read this scenario thoroughly, and then answer each question that displays on the right side of the screen.

An architect proposes these products for a customer who wants a wireless and wired upgrade:

1.

Aruba 2930M switches at the access layer

2.

Aruba 5406R switches at the core

3.

Aruba AP-325s

4.

Aruba 7205 Mobility Controllers (MCs), deployed in a cluster

5.

Aruba Mobility Master (MM)

6.

Aruba ClearPass Cx000V

7.

Aruba AirWare

The architect also needs to propose a security plan for the solution. The customer has 900 employees and up to 30 guests a day. The customer wants to protect the internal perimeter of the network with authentication and simple access controls. The customer is most concerned about wireless security, but also wants to ensure that only trusted users connect on the wire. However, the customer also wants all wired traffic to be forwarded locally on access layer switches. The customer already has a third-party firewall that protects the data center.

The customer wants to use certificates to authenticate user devices, but is concerned about the complexity of deploying the solution. The architect should recommend a way to simplify. For the most part users connect company-issued laptops to the network. However, users can bring their own devices and connect them to the network. The customer does not know how many devices each user will connect, but expects about two or three per-user. DHCP logs indicate that the network supports a maximum of 2800 devices.

Refer to the provided scenario. Based on the plan for wired authentication, what is a correct plan for wired user VLANs?

- A. use the MCs to assign wired users to their VLANs, and extend the VLANs to a Layer 3 switch connected to the MC
- B. specify the VLANs in network policies on AirWare, and ensure that both the switches and MCs are managed by AirWare
- C. assign wired users to different VLANs from wireless users, based on port or role assignments on access layer switches. Extend the VLANs to the core.
- D. configure the same roles on switches and MCs to place wired and wireless users in the same VLANs. Extend VLANs from access layer switches to the core.

Correct Answer: C

QUESTION 5

A customer needs a wireless solution upgrade. Among the devices that need wireless access are printers. What information about the printers does the architect need to plan the wireless solution? (Select two.)

- A. whether the printers are physically locked down
- B. the identify of users who need to access printers
- C. whether the printers support Power over Ethernet (PoE)
- D. whether the printers support 802.1X
- E. the 802.11 standards supported by the printer

Correct Answer: C

QUESTION 6

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Refer to the provided scenario.

Which solution should the architect recommend on the 2930M switches to authenticate and control wired employee devices?

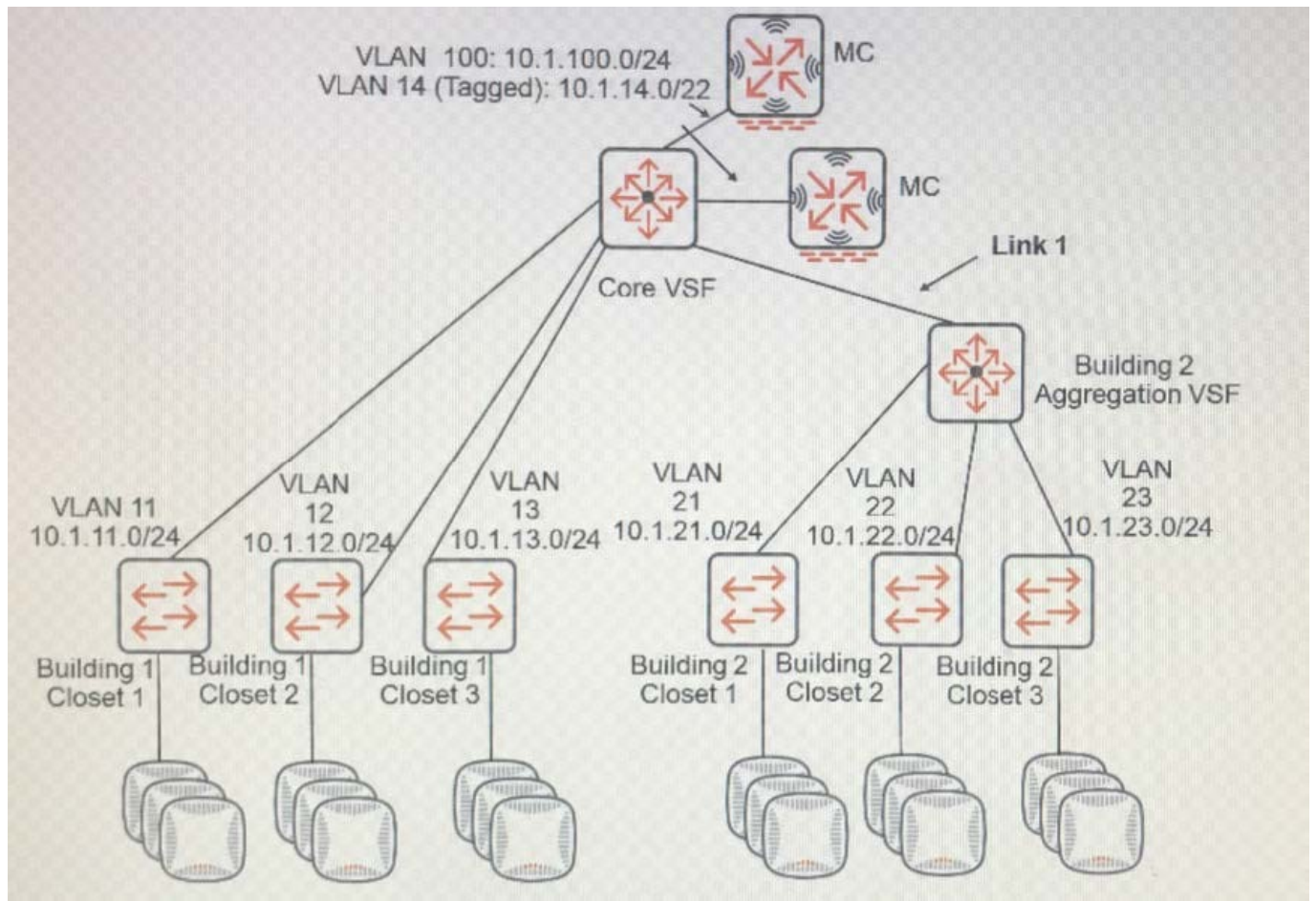
A. MAC-Auth on edge ports and no tunneled node

- B. 802.1X on edge ports and per-user tunneled node
- C. 802.1X on edge ports and no tunneled node
- D. Mac-Auth on edge ports and per-user tunneled node

Correct Answer: A

QUESTION 7

Refer to the exhibit.



The customer needs to expand its wired and wireless network to a new building, Building 2, which is near the existing building, Building 1. The exhibit shows the logical plan that the architect has created so far. The aggregation layer switches in the new building should provide the default gateway services for the VLANs in the new building and route traffic to the core. The existing Aruba Mobility Controllers (MCs) will control the new APs.

What should be the VLAN assignment for Link 1, indicated in the exhibit?

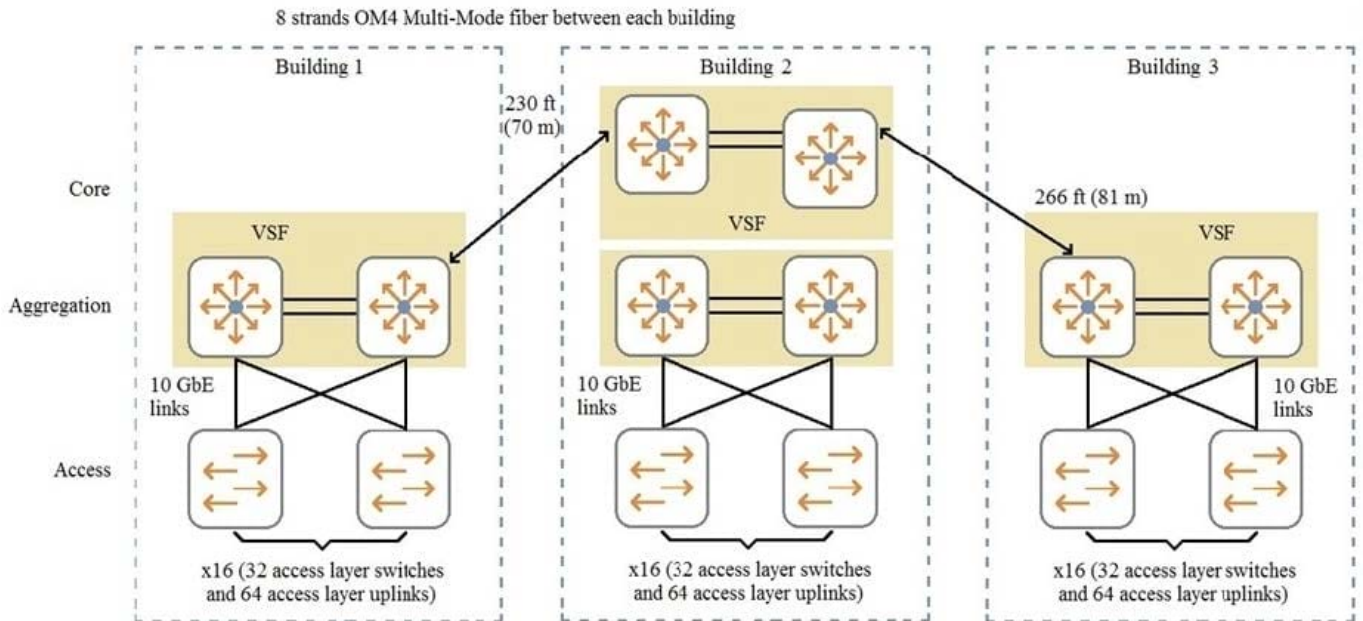
- A. an unused VLAN such as 200
- B. VLANs 21, 22, and 23 only
- C. VLANs 11, 12, 13, 21, 22, and 23

D. the default VLAN and VLAN 14

Correct Answer: C

QUESTION 8

Refer to the exhibit.



An architect selects 5406R switches for the aggregation layer.

What is the maximum bandwidth possible between the aggregation and core layers using 8 strands of OM4 MM fiber at the distances indicated in the diagram?

- A. 60 Gbps
- B. 160 Gbps
- C. 200 Gbps
- D. 320 Gbps

Correct Answer: D

QUESTION 9

A customer needs a solution to terminate VPN tunnels for Aruba RAPs. The customer has a single site and a single public IP address for this purpose. Network address translation (NAT) will forward the IPsec traffic to the correct device to terminate the VPN tunnel. The customer also requires N+1 redundancy for the solution.

Which solution meets the customer requirements?

- A. two Aruba MCs on the same subnet that use VRRP without clustering
- B. two Aruba MCs deployed as a Layer 3 cluster
- C. two Aruba MCs on different subnets that use VRRP without clustering
- D. two Aruba MCs deployed as a Layer 2 cluster

Correct Answer: B

QUESTION 10

Which benefit does Aruba AirWare Clarity provide to customer IT staff?

- A. assesses times for clients to obtain DHCP and DNS services to help staff diagnose non-WiFi related issues
- B. create a heat map of RF coverage, shows places with interfaces, and helps staff pinpoint the interference source
- C. provides insight into the security posture of clients connected to the network, whether wired or wireless
- D. maps all network devices, including APs, MCs, switches, and client devices, and provides information about each node

Correct Answer: A

QUESTION 11

What typically drives the need for an aggregation layer in modern networks?

- A. insufficient fiber cabling, especially between buildings
- B. lack of high speed uplink capabilities at the access layer
- C. simplification of spanning tree protocol at the access layer
- D. need to extend VLANs across wider areas

Correct Answer: C

QUESTION 12

A plan includes these security settings for the employee WLAN:

1.
WPA2-Enterprise with AES encryption
2.
802.1X with PEAP-MSCHAPv2

However, the customer wants to use certificates to authenticate user devices.

Which change brings the plan in alignment with the customer requirements?

- A. Use EAP-TLS instead of PEAP-MSCHAPv2
- B. The TKIP encryption instead of AES.
- C. Add WPA2-PSK as an alternative to WPA2-Enterprise.
- D. Add Tunneled TLS (TTLS) as an alternative to PEAP-MSCHAPv2.

Correct Answer: D

QUESTION 13

An architect has an Instant AP (IAP) cluster at a mid-sized branch office. The IAP cluster now needs to tunnel corporate traffic to a Mobility Controller (MC) at the main office. However, the branch office should remain functional even if the link to the main office fails. Users at the branch office require access to main office resources, but do not require multicast services.

What is the recommended DHCP mode?

- A. Local
- B. Centralized L2
- C. Distributed L2
- D. Distributed L3

Correct Answer: D

QUESTION 14

What is a key criteria that an architect should use to choose between an Aruba 7000 Series or 7200 Series Mobility Controller (MC)?

- A. the number of wireless devices that the MC needs to support
- B. whether the MC needs to terminate VPN tunnels
- C. the need to deploy controllers in a cluster
- D. whether the MC needs to support advanced 8.x features

Correct Answer: A

QUESTION 15

A customer requires a wireless upgrade. The architect proposes: Aruba AP-325s Mobility Controller (MC) 7210s Virtual

Mobility Masters (MMs) ClearPass AirWave

The customer is interested in wired authentication, as well as wireless authentication, but does not have the budget to upgrade the wired network. The wired network does not currently support 802.1X or RADIUS.

Which feature of the Aruba solution should the architect explain to justify the proposed solution?

- A. The customer can direct all wired traffic through the MCs, which will then apply security to that traffic.
- B. The customer can direct all wired traffic through the MMs, which will impose basic security checks.
- C. ClearPass OnConnect can enable wired authentication on these switches through the use of SNMP.
- D. AirWave can manage these switches and shut down their ports if an unknown user or device connects.

Correct Answer: C

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