

Exam Questions HPE6-A47

Designing Aruba Solutions

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NEW QUESTION 1

Refer to the exhibit.

An architect needs to plan a network solution for a new office building with four floors. Each floor has two wiring closets with the equipment shown in the exhibit. The switches will connect to employee desktops, a few campus APs controlled by MCs, and printers. The switches do not implement tunneled node. What is a best practice design for the VLANs and subnets for the wired devices?

- A. one VLAN per closet and a /24 subnet for each VLAN
- B. one VLAN per closet and a /25 subnet for each VLAN
- C. one VLAN for the entire building and a /23 subnet
- D. one VLAN per floor and a /24 subnet for each VLAN

Answer: B

NEW QUESTION 2

A customer has very high availability requirements for wireless services. The architect plans to implement clustering on several Aruba Mobility Controllers (MCs). Which benefit of this feature should the architect explain?

- A. Clustering provides wireless client load balancing and seamless failover for client sessions.
- B. Clustering provides high stability because one MC is active for all sessions and one is standby for all sessions.
- C. Clustering enables an AP with a failed MC to operate on its own briefly to ensure seamless connectivity.
- D. Clustering enables an AP with a failed MC to reconnect to a new AP after a short bootstrap.

Answer: B

NEW QUESTION 3

Which guidelines should an architect use to determine how many AirWave servers to recommend?

- A. One server should be deployed on every subnet with an infrastructure device.
- B. One server is recommended for the base features and one server each for add-on features such as Clarity.
- C. One server should be dedicated to the wired infrastructure and one server to the wireless infrastructure.
- D. One server should monitor and manage up to about 4,000 infrastructure devices.

Answer: A

NEW 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:

Aruba 2930M switches at the access layer
Aruba 5406R switches at the core
Aruba AP-325s

Aruba 7205 Mobility Controllers (MCs), deployed in a cluster
Aruba Mobility Master (MM)
Aruba ClearPass Cx000V
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.

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

Answer: A

NEW QUESTION 5

An architect needs to plan an 802.11ac wireless upgrade for a university building. What is one reason that it is important for the architect to identify auditoriums?

- A. Auditoriums typically require a high-density AP design for RF coverage.
- B. Users in Auditoriums often have Bluetooth devices, which can be a source of interference in the 5 GHz band.
- C. Auditoriums typically require the use of 80 MHz channels to meet bandwidth requirements.
- D. Auditoriums often require the use of DFS channels for sufficient 20 MHz channels.

Answer: D

NEW QUESTION 6

Refer to the exhibit.

What is one reason for an architect to recommend the use of Virtual Switching Framework (VSF) in this network?

- A. VSF enables software-defined network monitoring in conjunction with AirWare.
- B. VSF transforms switches into virtual extensions of the MCs to simplify MST management.
- C. VSF enables administrators to manage all 18 switches as a single switch.

D. VSF simplifies the topology and eliminates the need for spanning tree.

Answer: D

NEW QUESTION 7

Refer to the exhibit.

The customer requires fast failover if any one link or core device fails. Which additional technology should the architect plan on the core VSF fabric to meet these criteria?

- A. OSPF graceful restart
- B. SmartLink
- C. BGP
- D. VRRP

Answer: C

NEW QUESTION 8

An architect learns that a customer site is 14,307 square meters (154,000 square feet) and supports 900 employees using WiFi 5 Ghz radio. What additional information should the architect collect to create the RF plan?

- A. number of devices used by each user
- B. the OS used on wireless devices
- C. whether BLE wayfinding is required
- D. software version on Mobility Controllers (MCs)

Answer: A

NEW QUESTION 9

An architect proposes an Aruba wireless solution for a customer that uses Microsoft Skype for Business. What should be set up on the MCs, or MM, to ensure that wireless voice traffic is properly prioritized?

- A. Firewall policies and SDN to mark voice
- B. Broadcast suppression combined with AirGroup
- C. Airtime Fairness set to fair-access
- D. Voice-aware Layer 3 roaming

Answer: D

NEW QUESTION 10

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

Answer: A

NEW QUESTION 10

An architect needs to plan a very high density (VHD) wireless network at a large events venue, at which thousands of attendees are expected. The architect plans to deploy a cluster of Mobility Controllers (MCs) to control the APs. It is important to support seamless roaming for wireless devices across the venue.

What should the architect ensure for the network services?

- A. DHCP servers can support a high number of scopes with a /24 size.
- B. A third-party firewall integrates with ClearPass to filter the guest user traffic.
- C. A domain CA is set up to deploy certificates to a high volume of guest devices.
- D. DHCP and DNS servers are carrier-grade and support a low transaction time.

Answer: B

NEW QUESTION 14

An enterprise needs an upgrade to 802.11ac. Users run applications such as Web, email, voice, and video. The architect needs to conduct an active site survey to plan 802.11ac AP locations. The noise floor is about -90 dBm across the site.

Based on Aruba best practices, what is the minimum acceptable signal that the architect should look for to determine the test AP range?

- A. a signal of -65 dBm in the 2.4 GHz band
- B. a signal of -75 dBm in the 5 GHz band
- C. a signal of -65 dBm in the 5 GHz band
- D. a signal of -75 dBm in the 2.4 GHz band

Answer: C

NEW QUESTION 15

An architect proposes four 7210 Mobility Controllers (MCs) to support about 1,500 client APs. The customer environment will have a maximum of about 20,000 wireless clients. The customer wants hardware MMs with an active and standby deployment. What is the minimum solution that meets the customer requirements?

- A. two MM-HW-10K appliances
- B. two MM-HW-5K appliances
- C. four MM HW-5K appliances
- D. four MM HW-10K appliances

Answer: B

NEW QUESTION 16

Refer to the exhibit.

A customer wants to replace the core and aggregation layer of an existing network. Currently the network routes between the aggregation layer and core, and uses the technologies shown in the exhibit.

The customer now wants to route at the core, instead of the aggregation layer, and extend some of the same VLANs in different buildings. However, the customer cannot eliminate the aggregation layer at this point. What should the architect recommend?

- A. Create a backplane stack at the aggregation layer and a VSF fabric at the core.
- B. Implement broadcast filtering on switch-to-switch links across all of the buildings.
- C. Combine all switches in the aggregation layer and core into a single backplane stack.
- D. Use VRRP on the core and aggregation switches, with the aggregation switches acting as standby.

Answer: C

NEW QUESTION 20

An architect proposes the following Aruba solutions:

- Two Virtual Mobility Masters (VMMs)
- Six 7030 Mobility Controllers (MCs)
- 300 APs

In addition to any necessary AP, PEF, and RFP licenses, which license package should the architect propose?

- A. six LIC-MM-VA-50
- B. one LIC-MC-VA-250 and one LIC-MC-VA-50; one LIC-MM-VA-500
- C. one LIC-MM-VA-500
- D. one LIC-MC-VA-250 and one LIC-MC-VA-50; six LIC-MM-VA-500

Answer: C

NEW QUESTION 25

An architect needs to help a customer design a management and monitoring solution for an Aruba network in an airport. The solution consists of an Aruba Mobility Master (MM), Aruba 7210 MCs, Aruba AP-335s, and Aruba 5496R switches. The architect plans to recommend Aruba AirWare.

The airport has a high-client device turnover and many highly mobile devices. Which changes should the architect make to the recommended solution based on this characteristic?

- A. Recommend additional hardware resources beyond those recommended for the typical tested AirWareplatform.
- B. Recommend extra AirWare device licenses to support the changing number of client devices.
- C. Recommend Aruba Central with a Clarity subscription as a more flexible cloud-based solution.
- D. Recommend Aruba Central with guest access licensing to increase guest visibility.

Answer: B

NEW QUESTION 27

A customer needs a wired network solution that can recognize and prioritize a wide array of different types of traffic, including casual Web browsing, voice, video, SAP Online, and file sharing.

The architect needs to choose between the Aruba 2930F or the 2540 Switch Series for the access layer switch. Why would the architect choose the 2930F rather than the 2540 Switch Series for this customer?

- A. The 2930F Series supports LLDP-MED for detecting VoIP traffic, while the 2540 Series does not.
- B. The 2930F Series supports advancing routing, including multi-area OSPF, while the 2540 Series does not.
- C. The 2930F Series supports more options for class-based QoS policies than the 2540 Series.
- D. The 2930F Series can provide better congestion management with its much deeper buffers.

Answer: D

NEW QUESTION 32

A customer needs a networking solution that supports their Microsoft Skype for Business Unified Communications (UC) solution. The architect discovers that user wireless devices are Wi-Fi Multimedia (WMM) capable. Windows policies assign voice traffic DSCP 46 and video traffic DSCP 34.

Which potential issue should the architect explain to the customer about the default QoS settings?

- A. The DSCP values place both voice and video traffic in the video VMM queue, so voice does not receive the prioritization that is should.
- B. The Aruba APs and controllers use different prioritization mechanism from WMM, so they will not accept high priority traffic from the wireless devices.
- C. DSCP is incompatible with WM
- D. The Aruba APs and controllers instead use 802.1p to mark traffic to and from wireless devices.
- E. The DSCP for wireless client traffic is concealed within the GRE packet on the path from the AP to the controller, and does not take effect.

Answer: A

NEW QUESTION 37

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

Answer: A

NEW QUESTION 39

For which scenario should an architect recommend Aruba Central Managed Portal (MSP)?

- A. for a service provider who needs to monitor multi-vendor environments
- B. for an enterprise that needs to manage data center services together with the network
- C. for a service provider who needs to manage multiple customer networks
- D. for an enterprise with many branches that needs to manage services centrally

Answer: D

NEW QUESTION 42

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