



# HPE6-A49<sup>Q&As</sup>

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## QUESTION 1

### Case study

A retailer needs a wireless and wired network upgrade, as well as an authentication and access control solution for a network that includes a main office with a three-floor building and six branch sites. The branch users all use resources at the main corporate office. Branch office employees will use wireless connections. At the main office, employees use wired and wireless connections. The customer wants the strongest authentication for employee wireless connections. It is also important that the MC role-based firewall can implement consistent access controls on employee connections no matter where the employees connect and no matter how they connect (wirelessly or, at the main site, wired). The customer also needs to provide complimentary wireless access for guests. Guest should be redirected to a portal, through which they can register and login. The customer would like two SSIDs, CompanyXEmployee and CompanyXGuest. The company wants to divide employees in two groups, managers and staff. In the corporate network, managers should only have access to Server Group Managers and staff should only have access to Server Group Staff. Each server group includes necessary services such as domain and DHCP, as well as servers that the employees access to do their jobs. All employees should also have access to the Internet. Guests should only have HTTP and HTTPS access, and only to the Internet.

The customer has: a maximum of 1000 employee devices a maximum of 100 guest devices at the same time 500 devices on wired ports at the main site, which will be supported by 12 new AOS-Switches (mostly employee laptops, as well as a few non-802.1X capable printers, which should just communicate with print servers)

The devices used by employees include 450 company-issued laptops, which the company wants to screen for security issues and violations of security policies. All authentications are assumed to be concurrent.

To fulfill the requirements for the wireless network upgrade, the architect plans to propose: 5 RAPs at each of 6 branch sites 60 APs at the main site

The architect will also propose an MM and ClearPass. The architect still needs to plan the Mobility Controllers (MCs). The customer requires high availability for wireless services and redundancy for the MCs. If a single MC fails, the network must continue to function without impact. If an MC fails, the customer must also receive a replacement component for the failed component by the next business day so that their IT staff can install it and get the network back to normal operation as soon as possible. Software upgrades must also be seamless, without the introduction of any downtime for wireless services, and the customer needs to be able to obtain the latest software over the lifetime of the solution for the next several years.

What is a correct plan for firewall rules for the guest role? (The options describe the rules, but do not need to use correct command syntax.)

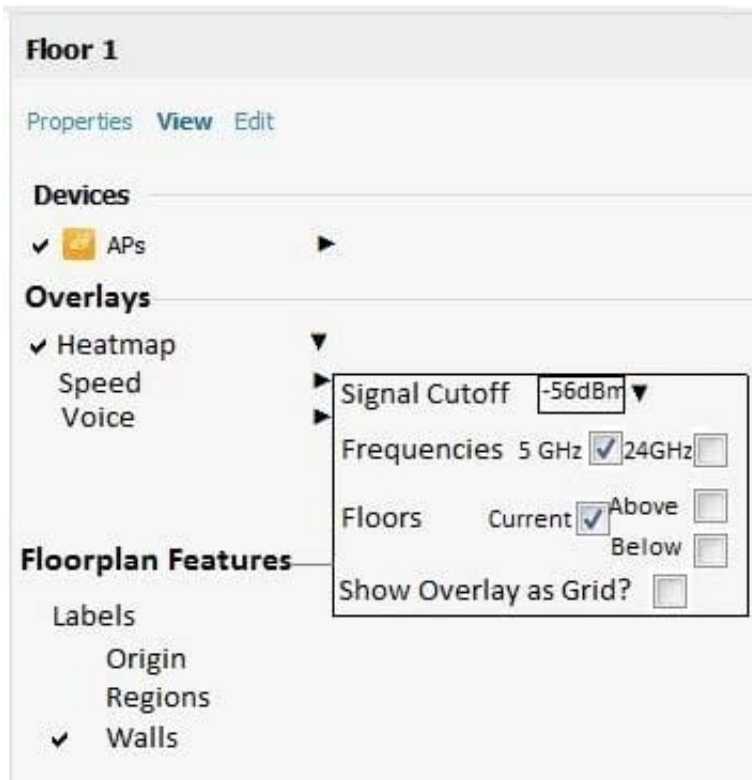
- A. deny all to corporateLAN, permit all HTTP, permit all HTTPS, deny all other traffic
- B. permit all HTTP, permit all HTTPS
- C. permit all DHCP, permit all DNS, permit all HTTP, permit all HTTPS
- D. permit all DHCP, permit all DNS, deny all to corporateLAN, permit all HTTP, permit all HTTPS

Correct Answer: C

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## QUESTION 2





A hospital needs an upgrade to 802.11ac for its wireless network. The wireless network supports: wireless medical devices medical staff voice communicators laptops in nurse stations medical staff tablets visitor and patient personal devices

All of these devices support both the 2.4GHz and 5GHz band. Assuming about a max throughput of 150 Mbps per AP, the hospital would like to support about 4 Mbps per client. The architect has used VisualRF to plan the AP placement on one of the floors, which the hospital expects will need to support about 800 wireless devices. The exhibits show heatmaps from this plan. The architect also plans to deploy APs in stairwells between floors.

How well does the plan meet the requirements?

- A. The current AP placement fails to account for the lead-lined walls that are common in patient and exam rooms.
- B. The current AP placement fails to provide adequate signal for the voice communicators in several areas.
- C. The current AP placement meets coverage requirements, but does not meet capacity requirements.

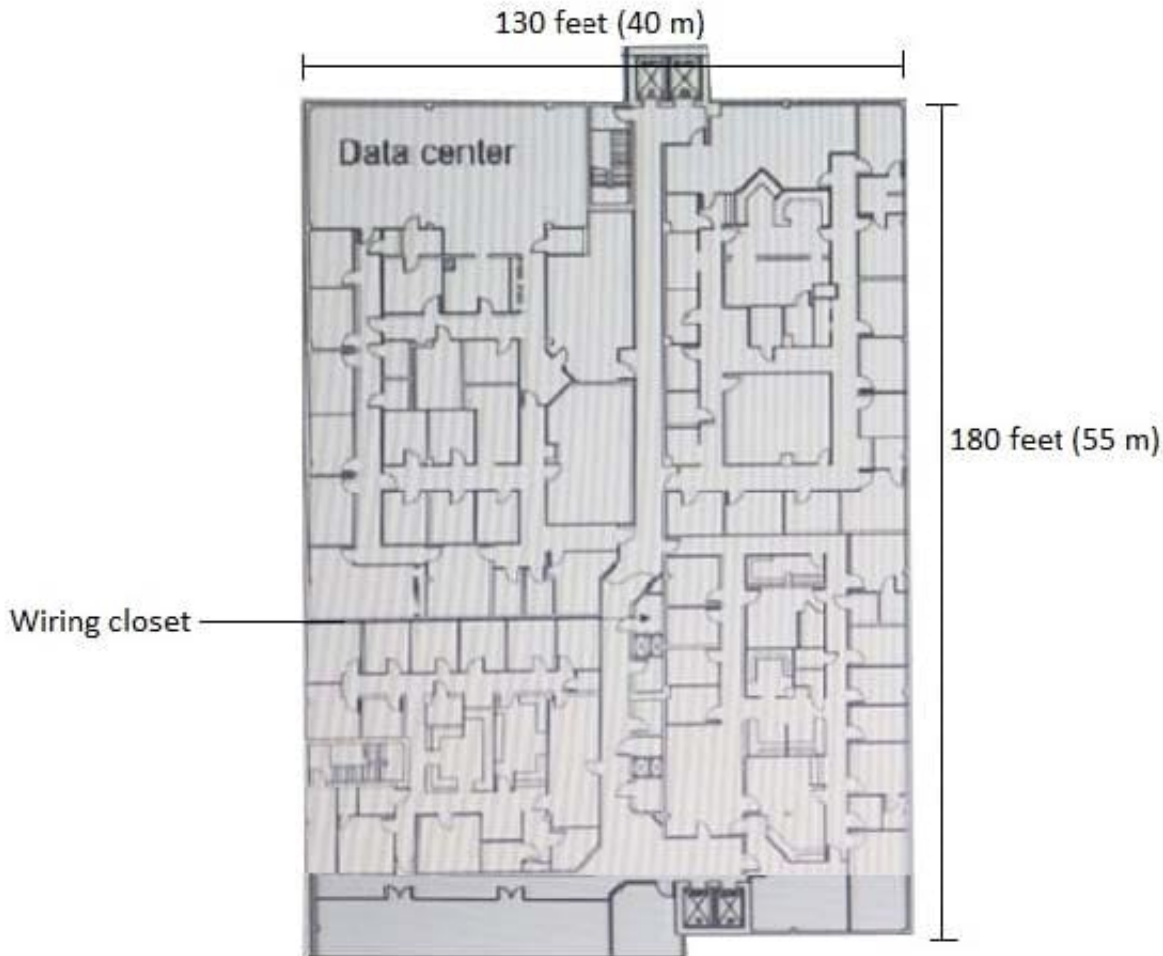


D. The current AP placement meets the customer requirements in terms of coverage and capacity.

Correct Answer: D

### QUESTION 3

Refer to the exhibit.



The customer requires a solution for the writing closet shown in the exhibit. The closet serves the entire floor, which is wired for CAT5e cable. The closet has four CAT5e cables to the data center 110 feet (34 m) away. The switch or switches in this closet will need to support 100 wired endpoints and 16 AP-345s. The switch or switches must connect to the network core, Aruba 5406R switches, in the data center on uplinks that provide at least 20 Gbps bandwidth total.

What is one benefit of an Aruba solution for meeting these requirements?

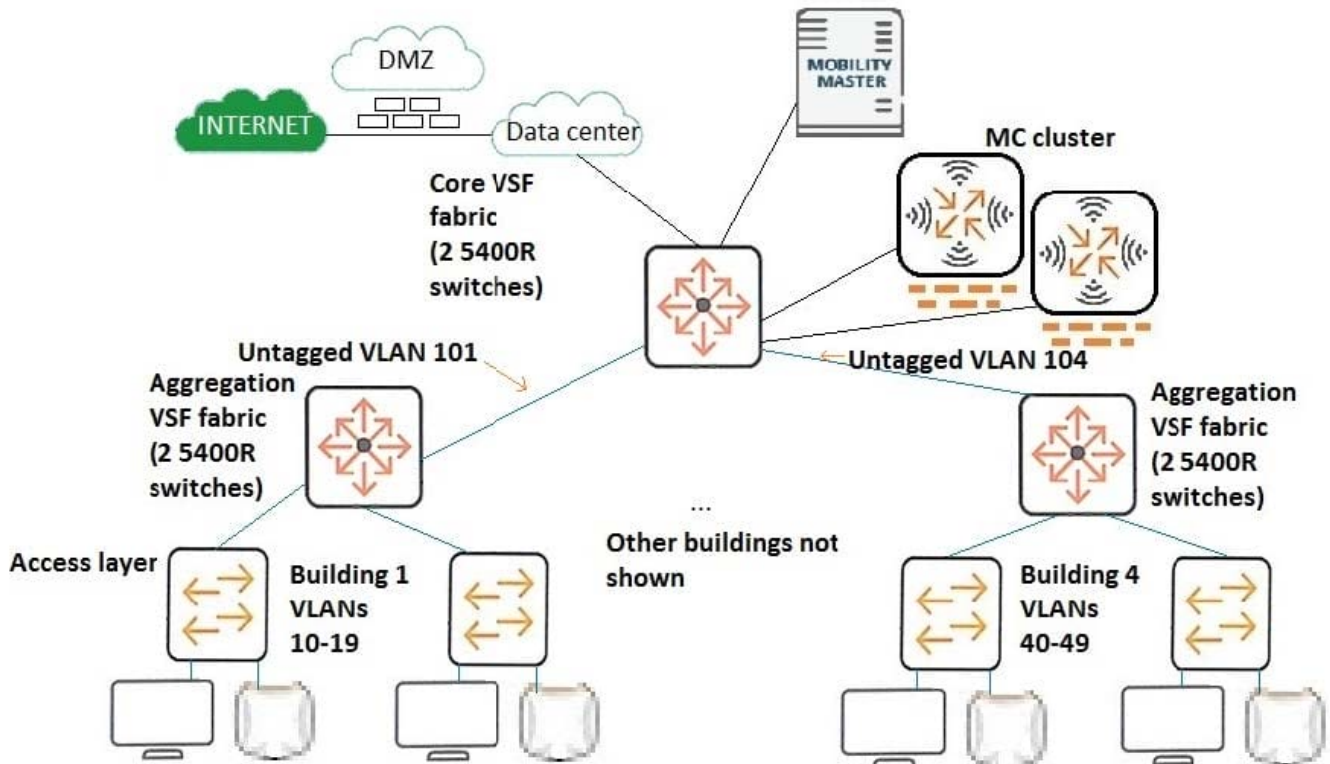
- A. AOS-Switches can meet the uplink bandwidth needs with an extensive array of choices for transceivers.
- B. Aruba PoE+ ports can provide more than 30W of power even to APs at the fat end of the floor.
- C. Aruba Smart Rate ports enable switches to achieve the required uplink speeds without expensive re-cabling.
- D. Aruba conditioning mode cables enable 10GbE SFP+ or 40GbE QSFP+ connections on copper cabling.



Correct Answer: B

#### QUESTION 4

Refer to the exhibit.



A customer has a wired infrastructure shown in the exhibit. The customer is in the process of expanding their wireless services. They will now add a new wireless solution, with mobility controllers (MCs) connected as shown. The new wireless solution will support a total of 450 APs and about 26,000 wireless devices. It must provide seamless roaming across the entire campus.

After the new deployment, both wired and wireless devices experience IP connectivity issues.

Which change to the existing infrastructure should the architect recommend to support all of the customer requirements?

- A. The MCs should be moved to the aggregation layer, and more MCs added.
- B. The core and aggregation switches should disable Virtual Switching Framework (VSF).
- C. The core switches should be replaced with switches that have larger ARP tables.
- D. The wired VLANs should be combined into a single VLAN and /16 subnet.

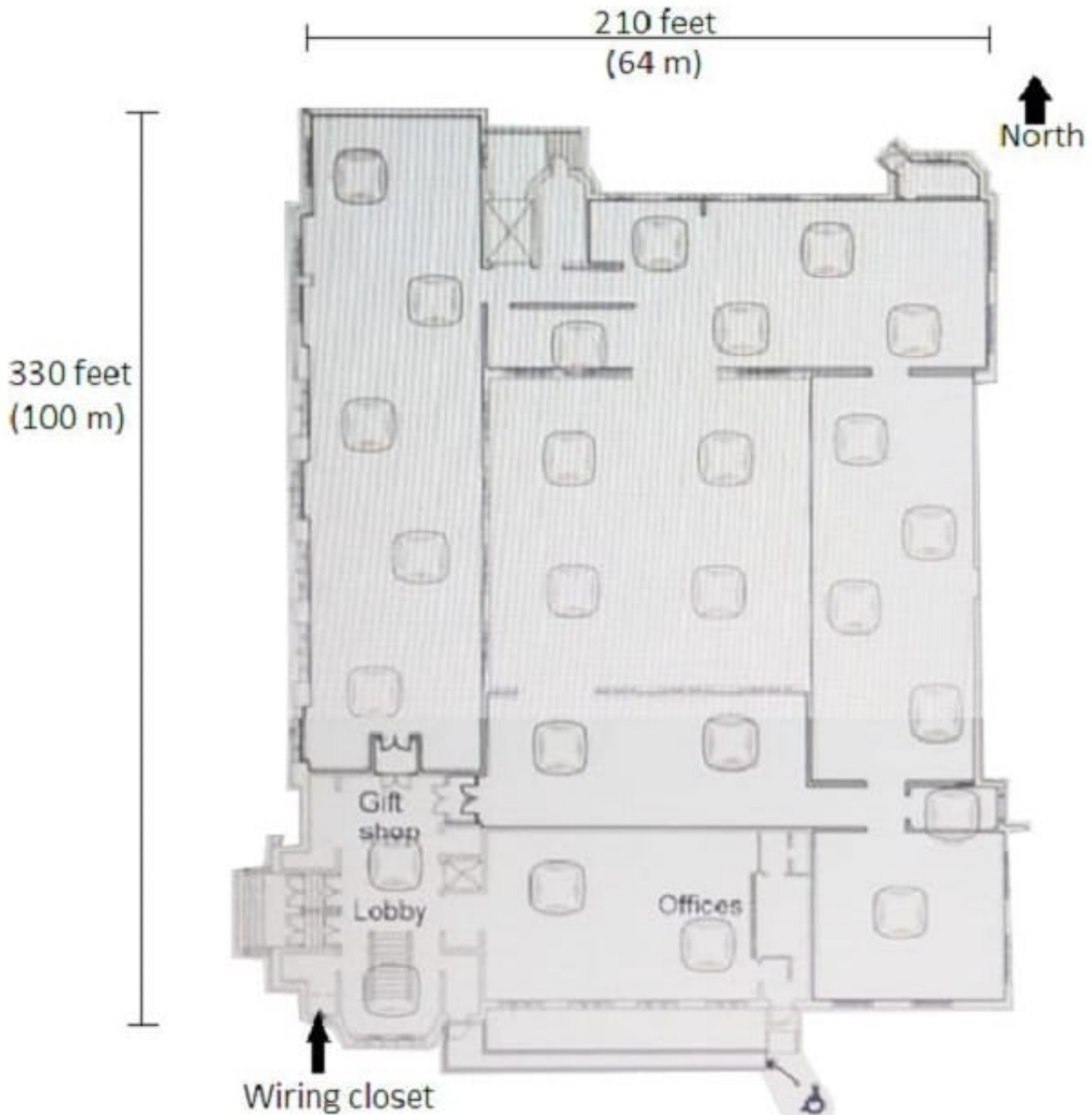




Correct Answer: B

### QUESTION 5

Refer to the exhibit.



A museum wants to add full 802.11ac wireless coverage across the building, which is about 210 feet (64 m) by 330 feet (100m). The museum has 15-foot (4,6 m) ceilings and stone interior walls. The network needs to support up to 600 wireless guest devices. The exhibit also shows a preliminary plan for AP locations. The museum has eight Ethernet drops in the lobby and gift shop, but has otherwise not been wired.



What is one recommendation that the architect should make to ensure a successful deployment?

- A. use of directional antennas to avoid lost signal
- B. addition of a writing closet closer to the north side
- C. use of at least CAT5 cable to connect to the APs
- D. addition of about 10 APs to achieve adequate density

Correct Answer: C

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