HPE6-A49$^{Q\&As}$

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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.

Which plan for authentication meets the customer needs?

A. Employee SSID = WPA2-802.1X, Guest SSID = WPA2-PSK, Wired edge ports = No authentication

B. Employee SSID = WPA2-802.1X, Guest SSID = Captive portal, Wired edge ports = No authentication

C. Employee SSID = WPA2-802.1X, Guest SSID = Captive portal, Wired edge ports = 802.1X + MAC-Auth

D. Employee SSID = WPA2-PSK, Guest SSID = MAC-Auth, Wired edge ports = MAC-Auth

Correct Answer: B

QUESTION 2

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.

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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

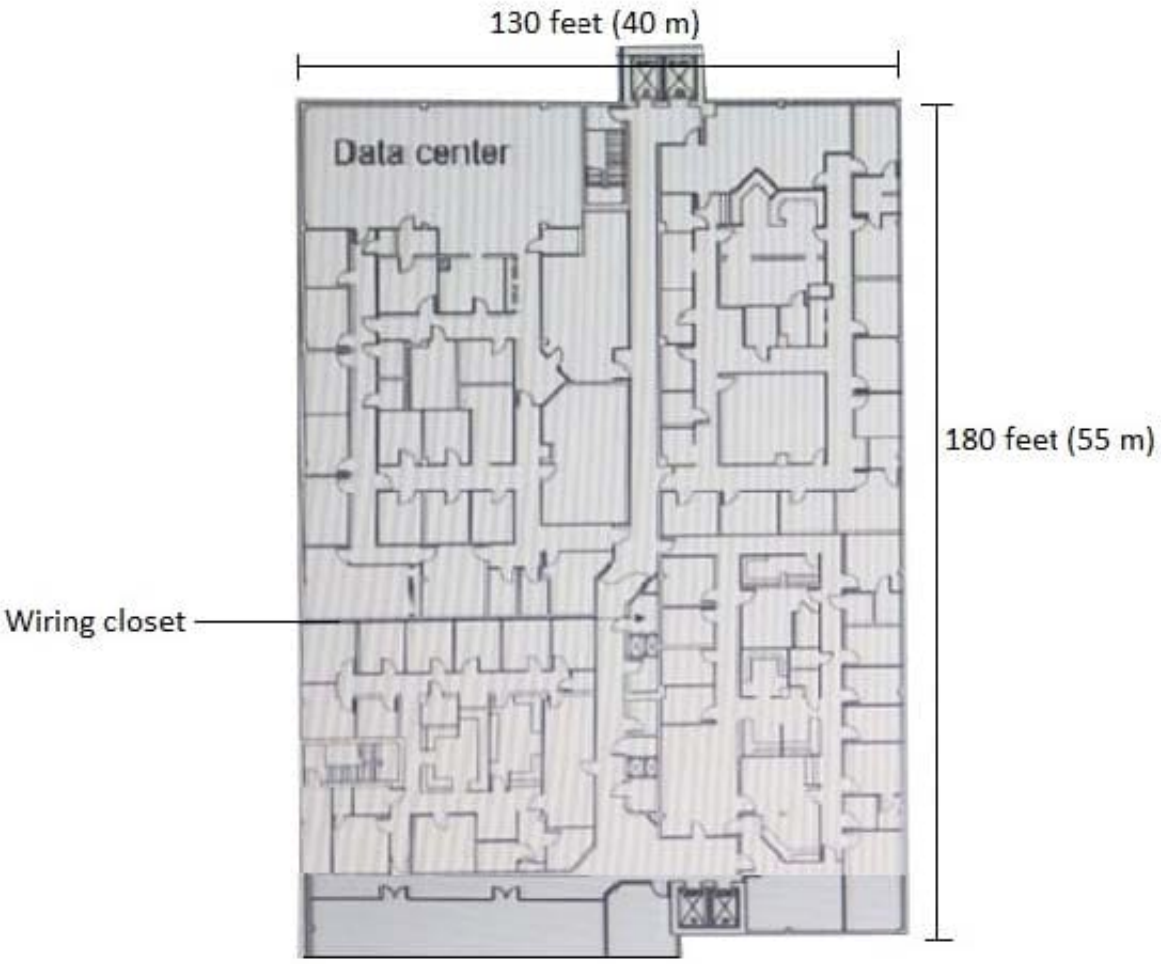
C. permit all DHCP, permit all DNS, permit all HTTP, permit all HTTPS

D. permit all DHCP, permit all DNS, deny all to corporateLAN, permit all HTTP, permit all HTTPS

Correct Answer: C

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+ of 40GbE QSFP+ connections on copper cabling.

Correct Answer: B

QUESTION 4

A hospital needs a wireless solution which will provide guest access for patients and visitors, as well as for medical staff. In addition to laptops and tablets, staff have wireless voice communicator devices. Some medical equipment also connects wirelessly.

How can the network architect help to ensure that patient and visitor internet use does not interfere with more vital hospital applications?

A. Deploy IntroSpect to monitor patient and visitor traffic.

B. Plan a bandwidth contract for the guest role in the MC firewall.

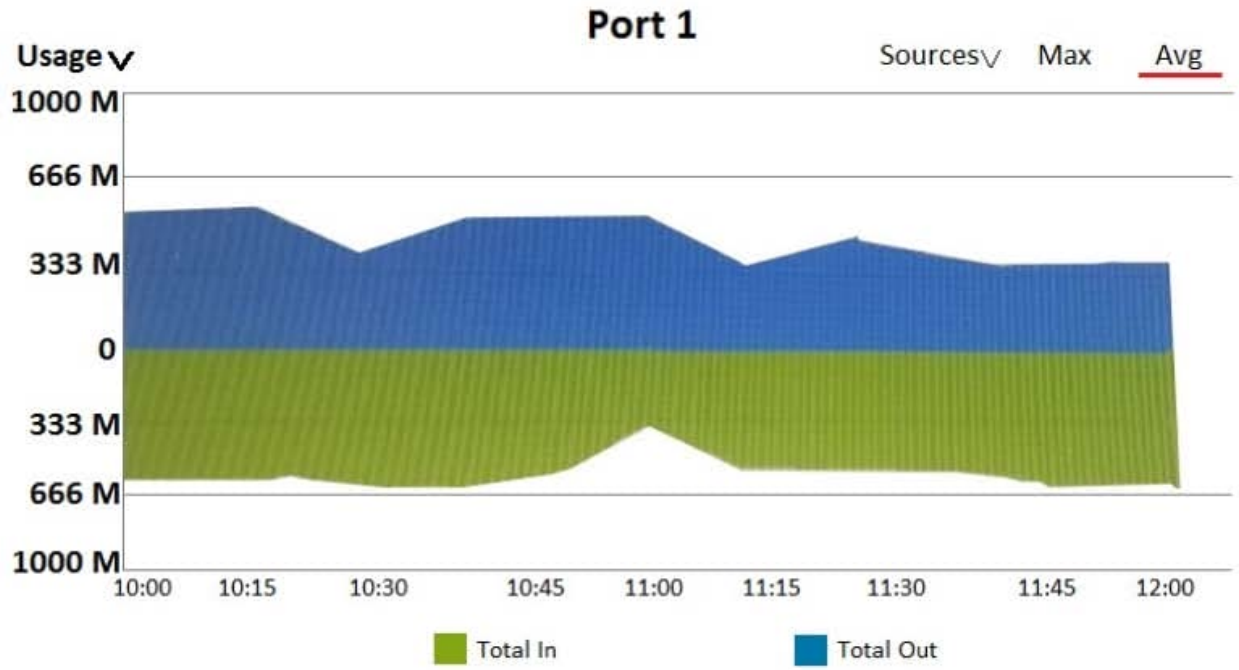
C. Deploy dedicated Air Monitors (AMs) at about one-fourth the density of APs.

D. Ensure that the guest SSID has a password associated with it.

Correct Answer: C

QUESTION 5

Refer to the exhibit.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Sources
Max
Avg
1000 M
666 M
333 M
0
333 M
666 M
1000 M
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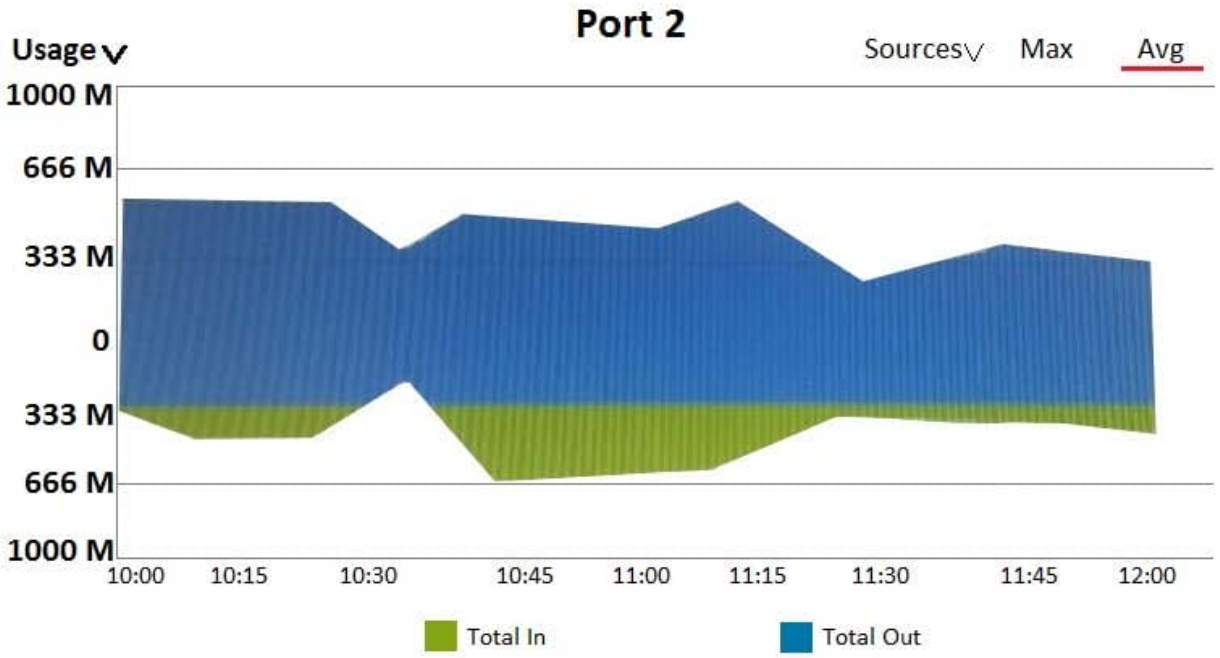
10:15
10:30
10:45
11:00
11:15
11:30
11:45
12:00
Total In
Total Out


Port 2
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Avg
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666 M
333 M
0
333 M
666 M
1000 M
10:00
10:15
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11:00
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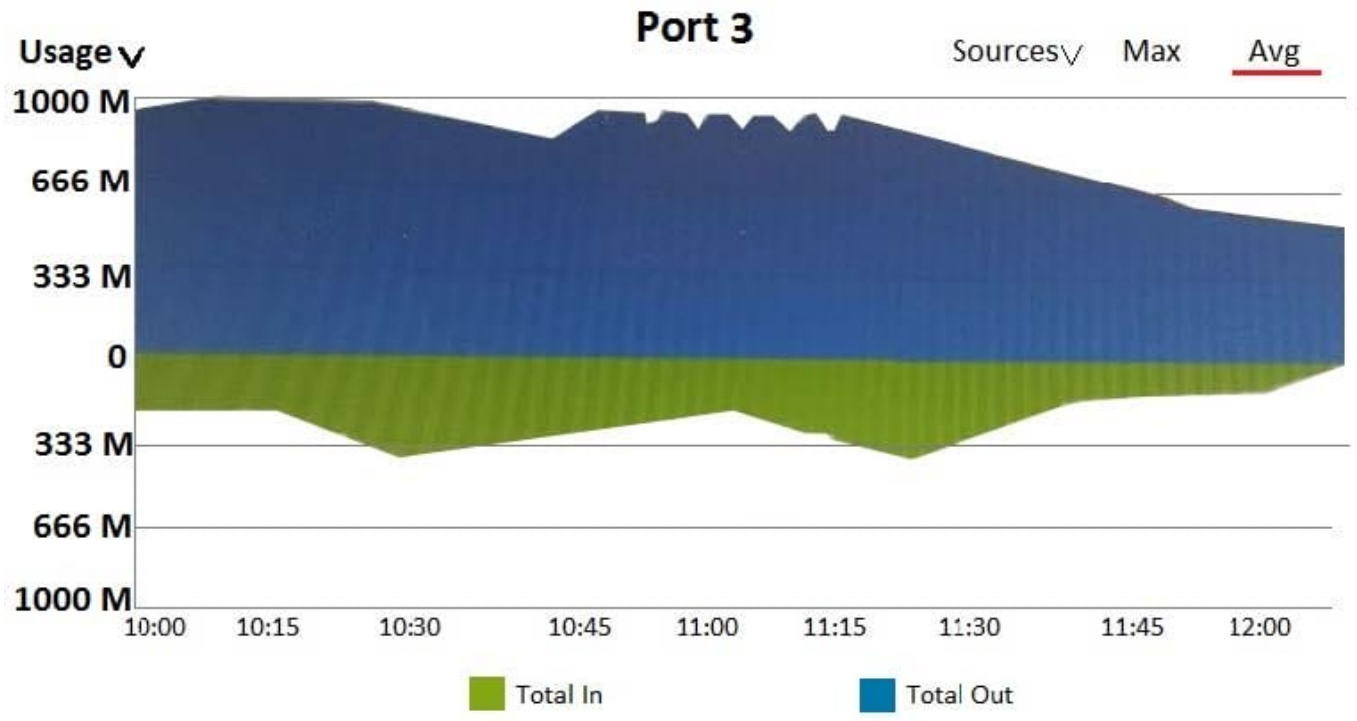
11:30
11:45
12:00
Total In
Total Out



A customer needs a wired network upgrade and has complained about performance issues. The architect has collected information about traffic flow on several switch ports in different locations across the network, and the results are shown in the exhibit. Each of these ports is a 1Gbps port.

What can the architect conclude?

A. None of these ports show any periods of congestion.

B. Port 1 shows periods of congestion, other ports are not congested.

C. Port 3 shows periods of congestion, other ports are not congested.

D. All of the ports show serious congestion.

Correct Answer: D