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QUESTION 1

Refer to the exhibit.

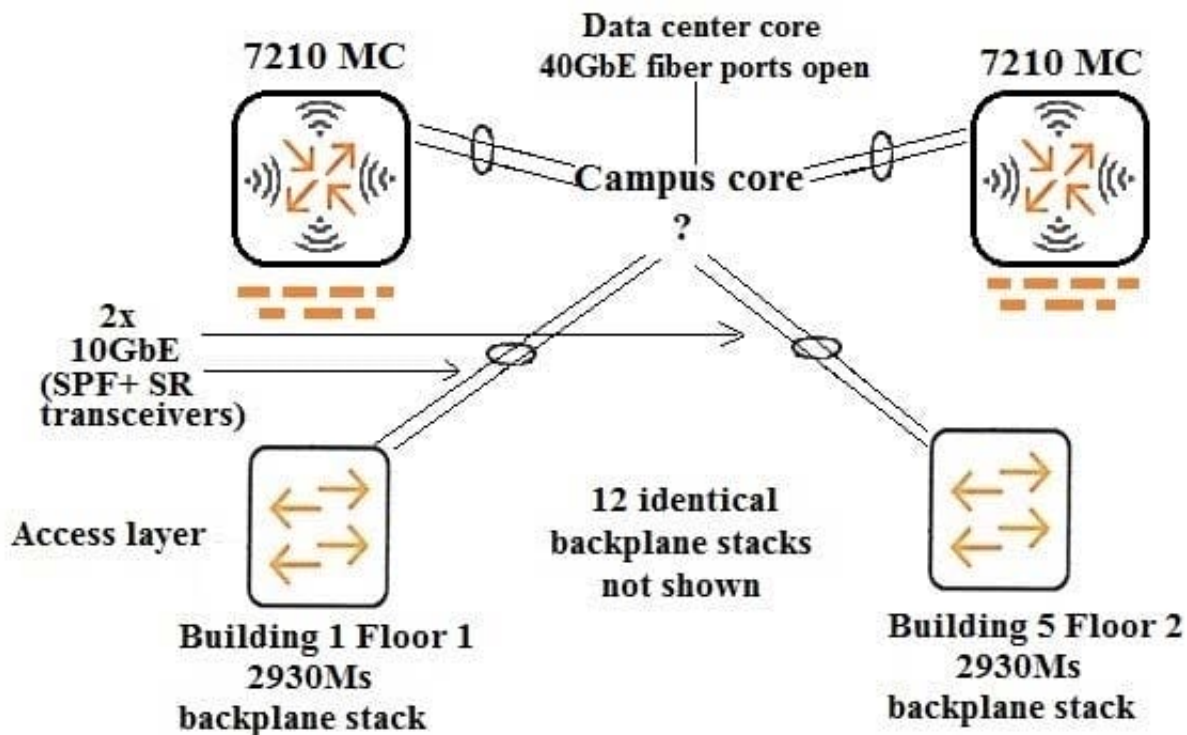


Exhibit: A49.01114316-77

An architect has planned the wireless and wired access layers for a network upgrade. The entire solution must support 9,000 wireless devices and 2,250 wired endpoints.

The campus core must meet these requirements:

no more than 4:1 oversubscription on the links to the data center

switch-level redundancy near instant failover if one core switch fails link aggregations between access layer and core
same switch software used across the entire campus

Which exhibit shows a campus core that meets the customer needs?

A.



Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 zl2 Switch	Hewlett Packard Enter...	\$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 zl2 Mod	Hewlett Packard Enter...	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R zl2 Switch SVC [for JL095A]	Hewlett Packard Enter...	\$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx zl Startup SVC [for JL095A]	Hewlett Packard Enter...	\$2,325.00	2
1.04	J9828A	Aruba 5400R 700W PoE+ zl2 PSU	Hewlett Packard Enter...	\$799.00	2
1.05	J9828A ABA	INCLUDED: Power Card - U.S. localization	Hewlett Packard Enter...	Incl.	2
1.06	J91500	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	\$1,040.00	32
1.07	J9996A	Aruba 2p 40GbE QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	\$6,799.00	4
1.08	JL308A	Aruba 40G QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	\$1,095.00	2
2.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter...	\$419.00	2
Quote Total					

B.

C.

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 zl2 Switch	Hewlett Packard Enter...	\$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 zl2 Mod	Hewlett Packard Enter...	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R zl2 Switch SVC [for JL095A]	Hewlett Packard Enter...	\$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx zl Startup SVC [for JL095A]	Hewlett Packard Enter...	\$2,325.00	2
1.04	J9828A	Aruba 5400R 700W PoE+ zl2 PSU	Hewlett Packard Enter...	\$799.00	2
1.05	J9828A ABA	INCLUDED: Power Card - U.S. localization	Hewlett Packard Enter...	Incl.	2
1.06	J91500	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	\$1,040.00	32
1.07	J9996A	Aruba 2p 40GbE QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	\$6,799.00	4
1.08	JL308A	Aruba 40G QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	\$1,095.00	2
Quote Total					

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL479A	Aruba 8320 48 10/6 40 X475 5 2 Bundle	Hewlett Packard Enter...	\$24,995.00	2
1.01	JL479A ABA	INCLUDED: Power Card - U.S. localization	Hewlett Packard Enter...	Incl.	2
1.02	H8XK5E	HPE 3Y FC 24x7 Aruba 8320 SWT SVC [for JL479A]	Hewlett Packard Enter...	\$8,093.00	2
1.03	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	\$1,040.00	32
1.04	JL30BA	Aruba 40G QSFP+ LC BDI 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	\$1,095.00	2
2.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter...	\$419.00	2
Quote Total					

D.

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL479A	Aruba 8320 48 10/6 40 X475 5 2 Bundle	Hewlett Packard Enter...	\$24,995.00	2
1.01	JL479A ABA	INCLUDED: Power Card - U.S. localization	Hewlett Packard Enter...	Incl.	2
1.02	H8XK5E	HPE 3Y FC 24x7 Aruba 8320 SWT SVC [for JL479A]	Hewlett Packard Enter...	\$8,093.00	2
1.03	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	\$1,040.00	32
1.04	JL30BA	Aruba 40G QSFP+ LC BDI 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	\$1,095.00	2
Quote Total					

Correct Answer: B



QUESTION 2

What is one requirement for ensuring that MCs can update their software without the need for a maintenance window?

- A. MCs must be managed by an MM and connected to the same switch.
- B. MCs must be in a cluster and connected in the same VLANs.
- C. MCs must be directly connected on at least one port.
- D. MCs must have AP licenses assigned to them in a dedicated local pool.

Correct Answer: D

QUESTION 3

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

QUESTION 4

Refer to the exhibit.



Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JW736A	Aruba 7205(US) 2-port 10GBASE-X (SFP+) Controller	Hewlett Packard Enter...	\$12,995.00	2	\$25,990.00	USA Price List (USD)
1.01	H3CW3E	Aruba 1Y FC NBD Exch 7205 Controller SVC [for JW736A]	Hewlett Packard Enter...	\$12,002.00	2	\$14,004.00	USA Price List (USD)
1.02	JW091A	SFP-10GB-SR 10GBASE-SR SFP+ 850nm Pluggable LC Conn.	Hewlett Packard Enter...	\$1,245.00	4	\$4,980.00	USA Price List (USD)
2.00	J323A	Aruba 2930 40GB Smart Rate PoE+ 1 slot Switch	Hewlett Packard Enter...	\$9,359.00	24	\$224,616.00	USA Price List (USD)
2.01	HT6U1E	HPE 3Y FC 4H Exch Aruba2930MSRPOE SVC [for JL323A]	Hewlett Packard Enter...	\$2,911.00	24	\$69,864.00	USA Price List (USD)
2.02	JL086A	Aruba X372 54VDC 680W Power Supply	Hewlett Packard Enter...	\$639.00	24	\$15,336.00	USA Price List (USD)
2.03	JL086A ABA	INCLUDED: Power Cord - U.S. localization	Hewlett Packard Enter...	Incl.	24		USA Price List (USD)
2.04	JL325A	Aruba 2930 2-port Stacking Module	Hewlett Packard Enter...	\$1,019.00	24	\$24,456.00	USA Price List (USD)
2.05	JL083A	Aruba 3810M/2930M 4SFP+ MACsec Module	Hewlett Packard Enter...	\$1,259.00	16	\$20,144.00	USA Price List (USD)
2.06	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	\$1,040.00	16	\$16,640.00	USA Price List (USD)
3.00	J9821A	Aruba 5406R zl2 Switch	Hewlett Packard Enter...	\$2,419.00	2	\$4,838.00	USA Price List (USD)
3.01	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R zl2 Switch SVC [for J9821A]	Hewlett Packard Enter...	\$4,094.00	2	\$8,188.00	USA Price List (USD)
3.02	U4832E	HPE Networks 54xx/82xx zl Startup SVC [for J9821A]	Hewlett Packard Enter...	\$2,325.00	2	\$4,650.00	USA Price List (USD)
3.03	J9828A	Aruba 5400R 700W PoE+ zl2 PSU	Hewlett Packard Enter...	\$799.00	2	\$1,598.00	USA Price List (USD)
3.04	J9828A ABA	INCLUDED: Power Cord - U.S. localization	Hewlett Packard Enter...	Incl.	2		USA Price List (USD)
3.05	J9993A	Aruba 8p 1G/10GbE SFP+ v3 zl2 Mod	Hewlett Packard Enter...	\$14,799.00	4	\$19,196.00	USA Price List (USD)
3.06	J9150O	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	\$1,040.00	20	\$20,800.00	USA Price List (USD)
3.07	J4858D	Aruba 1G SFP LC SX 500m MMF Transceiver	Hewlett Packard Enter...	\$325.00	4	\$1,300.00	USA Price List (USD)



3.08	J9996A	Aruba 2p 40GbE QSFP+ v3 zl2 Mod	Hewlett Packard Enter...	\$6,799.00	4	\$27,196.00	USA Price List (USD)
3.09	JL308A	Aruba 40G QSFP+ LC BiD 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	\$1,095.00	2	\$2,190.00	USA Price List (USD)
4.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter...	\$419.00	2	\$838.00	USA Price List (USD)
5.00	JZ033A	Aruba AP-345 (US) Unified AP	Hewlett Packard Enter...	\$1,395.00	192	\$267,840.00	USA Price List (USD)
5.01	H9RQ5E	Aruba 1Y FC NBD Exch AP-345 SVC [for JZ033A]	Hewlett Packard Enter...	\$61.00	192	\$11,712.00	USA Price List (USD)
6.00	JY791A	Aruba MM-HW-1K Mobility Master 1000 AP HW Appliance	Hewlett Packard Enter...	\$17,995.00	2	\$35,990.00	USA Price List (USD)
6.01	H6QE5E	Aruba 1Y FC NBD Exch MM-HW-1K Mob1000SVC [for JY7]	Hewlett Packard Enter...	\$2,770.00	2	\$5,540.00	USA Price List (USD)
6.02	JW124A	PC-AC-NA North America AC Power Cord	Hewlett Packard Enter...	\$5.00	4	\$20.00	USA Price List (USD)
6.03	JW471AAE	Aruba LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-...)	Hewlett Packard Enter...	\$300.00	192	\$57,600.00	USA Price List (USD)
6.04	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE]	Hewlett Packard Enter...	\$46.00	192	\$8,832.00	USA Price List (USD)
6.05	JW088A	SFP-SX 1000BASE-SX SFP 850nm LC Connector Pluggable...	Hewlett Packard Enter...	\$395.00	4	\$1,580.00	USA Price List (USD)
7.00	J9734A	Aruba 2920/2930M 0.5m Stacking Cable	Hewlett Packard Enter...	\$149.00	15	\$2,235.00	USA Price List (USD)
Quote Total						\$888,173	

The network architect has created the BOM shown in the exhibit for a complete new wired and wireless solution for a customer. This solution will support 6000 wireless clients and 900 wired clients. The customer wants to discover and manage every component of the network in AirWave, including MMs, MCs, APs, and switches.

How many AirWave licenses does the architect need to add?

- A. 30
- B. 222
- C. 6930
- D. 7122

Correct Answer: A



QUESTION 5

A university has a dormitory with several floors. Currently APs are deployed in the hallways about every 50 feet (15m). The university has several issues with the existing network:

Students complain that the network is very slow, and the wireless signal is poor.

Students want to connect some equipment such as gaming consoles and IP TVs on Ethernet, but the dorm rooms just have one Ethernet port.

How does the deployment of AP303Hs resolve the customer issues?

- A. They are specialized to provide wireless coverage for single-room deployment and also provide wired ports for clients.
- B. They are specialized for wireless meshing, which conserves Ethernet ports, and for high-speed wireless services.
- C. They have high-gain antennas designed for older buildings and support Smart Rate for high bandwidth on one port.
- D. They have directional antennas that will improve the wireless signal and require just one Ethernet port.

Correct Answer: C

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