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QUESTION 1

A systems administrator needs to improve WiFi performance in a densely populated office tower and use the latest standard. There is a mix of devices that use 2.4 GHz and 5 GHz. Which of the following should the systems administrator select to meet this requirement?

- A. 802.11ac
- B. 802.11ax
- C. 802.11g
- D. 802.11n

Correct Answer: B

Wi-Fi 6 (802.11ax) can now divide a wireless channel into a large number of subchannels. Each of these subchannels can carry data intended for a different device. This is achieved through something called Orthogonal Frequency Division Multiple Access, or OFDMA. The Wi-Fi access point can talk to more devices at once. The new wireless standard also has improved MIMO - Multiple In/Multiple Out. This involves multiple antennas, which let the access point talk to multiple devices at once. With Wi-Fi 5, the access point could talk to devices at the same time, but those devices couldn't respond at the same time. Wi-Fi 6 has an improved version of multi-user or MU-MIMO that lets devices respond to the wireless access point at the same time

QUESTION 2

Which of the following does the IP address 169.254.222.10 indicate?

- A. No DHCP server connectivity
- B. The DNS server is unavailable
- C. Firewall issue
- D. Duplicate IP addresses are found

Correct Answer: A

QUESTION 3

A network technician reviews an entry on the syslog server and discovers the following message from a switch:

SPANNING-TREE Port 1/1 BLOCKED

Which of the following describes the issue?

- A. A loop was discovered, and the impact was mitigated.
- B. An incorrectly pinned cable was disconnected.
- C. The link-local address on the port is incorrect.



D. The port was shut down, and it needs to be reactivated.

Correct Answer: A

The message "SPANNING-TREE Port 1/1 BLOCKED" indicates that a loop was discovered on port 1/1 and the spanning-tree protocol (STP) blocked the port to prevent the loop from causing a broadcast storm. The "BLOCKED" status is a normal part of the STP process, and it is used to prevent loops in the network. This is the most likely cause of the issue.

QUESTION 4

A company has multiple offices around the world. The computer rooms in some office locations are too warm. Dedicated sensors are in each room, but the process of checking each sensor takes a long time. Which of the following options can the company put in place to automate temperature readings with internal resources?

- A. Implement NetFlow.
- B. Hire a programmer to write a script to perform the checks
- C. Utilize ping to measure the response.
- D. Use SNMP with an existing collector server

Correct Answer: D

SNMP (Simple Network Management Protocol) is a protocol that allows network devices to communicate with a management server. By using SNMP, the company can set up an SNMP agent on each sensor, which will report its temperature readings to an existing collector server. This will enable the company to monitor the temperatures of all their sensors in real-time without the need for manual checks. Additionally, SNMP's scalability means that even if the company adds more rooms or sensors, the existing system can be easily expanded to accommodate them.

QUESTION 5

A new application is being deployed. The application team has asked the network team to monitor network performance and create alerts if fluctuations in the round-trip time for that traffic occur. Which of the following should the network team monitor to meet this requirement?

- A. Bandwidth
- B. Latency
- C. Loss
- D. Jitter

Correct Answer: D

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