

CYB 210 Project One Scenario One

Use the scenario below to address the critical elements outlined in the prompt.

You are a network administrator working at the department of motor vehicles. You are tasked with adding a free guest wireless internet for customers to use while they wait for services. You are also tasked with improving the physical security of the office by installing cameras that monitor the front desk and the waiting area.

Guest Wireless Requirements

- Use an old wireless router from the equipment closet.
- Configure the wireless router for DHCP.
- Consider scalability options for DHCP for the guest wireless. For the guest network, start with the IP address 192.168.70.100. Assume there will be no more than 70 guests for no more than 4 hours.
- No authentication will be set; this guest wireless will be open and unencrypted.
- The guest network must be segmented from internal network traffic through its own VLAN. This is VLAN 70 with the name "Guest" on your network diagram.
- Two devices must be connected to your wireless network to demonstrate functionality.

Camera Requirements

- The video network must be segmented from internal network traffic through its own VLAN. Name this "VLAN 80" with the name "Video" on your network diagram.
- Two cameras must be connected to your network to demonstrate functionality.

Your current network has the following characteristics:

- Data traffic for the office is on VLAN 50 with the name "Data".
- Voice traffic for the office is on VLAN 150 with the name "Voice" and is reserved for future use.

Here is a diagram of the current network.

