Lab Report

Your Performance

Your Score: 0 of 4 (0%) Pass Status: Not Passed
Elapsed Time: 5 minutes 23 seconds Required Score: 100%

Task Summary

- ✗ Create the VLAN Hide Details
  - Use 2 as the VLAN number (ID)
  - Use IPCameras as the name
  - Include ports 18, 19, 20, and 21
- ✗ Connect the IP cameras to the VLAN and mount the IP cameras to the wall Hide Details
  - Make the connections in the lobby
  - Make the connections in the networking closet
- ✗ Connect the laptop to the VLAN
- ✗ Launch the IP camera monitoring software and confirm that the IP cameras are online

Explanation

In this lab, you perform the following:

- Access the switch management console from ITAdmin using the following credentials:
  - Address: **http://192.168.0.2**
  - Username: **ITSwitchAdmin**
  - Password: **Admin$0nly** (0 is zero)
- Create a VLAN on the switch as follows:
  - Number (ID): **2**
  - Name: **IPCameras**
  - Ports: **18**, **19**, **20**, **21**
- In the networking closet and lobby, perform the following:
  - Connect a Cat5e cable to the RJ-45 ports on the IP camera and the IP camera wall plate.
  - Mount the IP camera on the wall plate.
- In the networking closet, connect the DHCP server to the VLAN using a **Cat5e cable** from switch port 21 to patch panel port 21 in the rack.
- In the IT administration office, connect a **Cat5e cable** to the laptop's network port and the open port on the wall plate.
- On ITAdmin-Lap, verify the VLAN configuration and IP camera installation as follows:
  1. Select **Start** > **All Apps** > **IP Cameras**.
  2. Verify that the program detects the IP cameras on the VLAN 2 network.

Complete this lab as follows:

1. Configure a VLAN as follows:
   a. From the taskbar, open **Internet Explorer**.
   b. Maximize Internet Explorer.
   c. In the URL field, enter **192.168.0.2** and press **Enter**.
   d. In the Username field, enter **ITSwitchAdmin**.
   e. In the Password field, enter **Admin$0nly** (0 is zero).
   f. Click **Log In**.

g. From the Getting Started page, select **Create VLAN**.
h. Click **Add**.
i. Enter the ***VLAN ID***.
j. Enter the ***VLAN name***.
k. Click **Apply**.
l. Click **Close**.
m. From the left menu, select **Port to VLAN** under VLAN Management.
n. From the VLAN ID equals to drop-down list, select **2**.
o. Click **Go**.
p. For ports 18, 19, 20, and 21, select **Untagged**.
q. Click **Apply**.

2. Connect the IP camera in the lobby to the VLAN and mount the IP cameras as follows:
   a. From the top menu, select **Floor 1**.
   b. Under Lobby, select **Hardware**.
   c. Under Shelf, expand **CCTV Cameras**.
   d. Drag the **IP camera (Lobby)** to the workspace.
   e. Under Workspace for the IP camera, select **Back** to switch to the back view of the IP camera.
   f. Under Shelf, expand **Cables**.
   g. Drag a **Cat5e Cable** to the RJ-45 port on the IP Camera mount wall plate.
   h. From the wall plate's Partial Connections list, drag the other **connector** to the RJ-45 port on the back of the IP camera. Connect the IP camera to the IP camera wall plate.
   i. To mount the IP camera, drag the **IP camera** to the IP camera wall plate.
3. Connect the IP camera in the networking closet to the VLAN and mount the IP cameras as follows:
   a. From the top menu, select **Floor 1**.
   b. Under Networking Closet, select **Hardware**.
   c. Under Shelf, expand **CCTV Cameras**.
   d. Drag the **IP camera (Networking Closet)** to the workspace.
   e. Under Workspace for the IP camera, select **Back** to switch to the back view of the IP camera.
   f. Under Shelf, expand **Cables**.
   g. Drag a **Cat5e Cable** to the RJ-45 port on the IP Camera mount wall plate.
   h. From the wall plate's Partial Connections list, drag the other **connector** to the RJ-45 port on the back of the IP camera.
   i. To mount the IP camera, drag the **IP camera** to the IP camera wall plate.
4. Connect the DHCP server and laptop to the VLAN as follows:
   a. In the networking closet, expand **Cables** under Shelf.
   b. Drag a **Cat5e Cable** to port 21 on the switch.
   c. Drag the **Cat5e Cable** from the rack's Partial Connections list to port 21 on the patch panel.
   d. From the top menu, select **Floor 1** to connect the laptop to the VLAN.
   e. Under IT Administration, select **Hardware**.
   f. Above the laptop, select **Back** to switch to the back view of the laptop.
   g. Expand **Shelf**.
   h. Expand **Cables** on the Shelf.
   i. Drag a **Cat5e Cable** to the RJ-45 port on the laptop.
   j. Drag the **Cat5e Cable** from the laptop's Partial Connections list to the open RJ-45 port on the wall plate.

   To verify that all components are connected, you can change location to the Network Closet hardware view. You should see green link/activity lights on ports 18 - 21 of the switch. You should also see amber Power Over Ethernet (POE) lights on ports 19 and 20, which are connected to the IP cameras.

5. Launch the IP camera monitoring software as follows:
   a. From the top menu, select **Floor 1**.
   b. Under IT Administration, select **ITAdmin-Lap**.
   c. Select **Start**.
   d. Select **All Apps**.
   e. Select **IP Cameras**.
   f. Verify that both cameras are detected on the network.