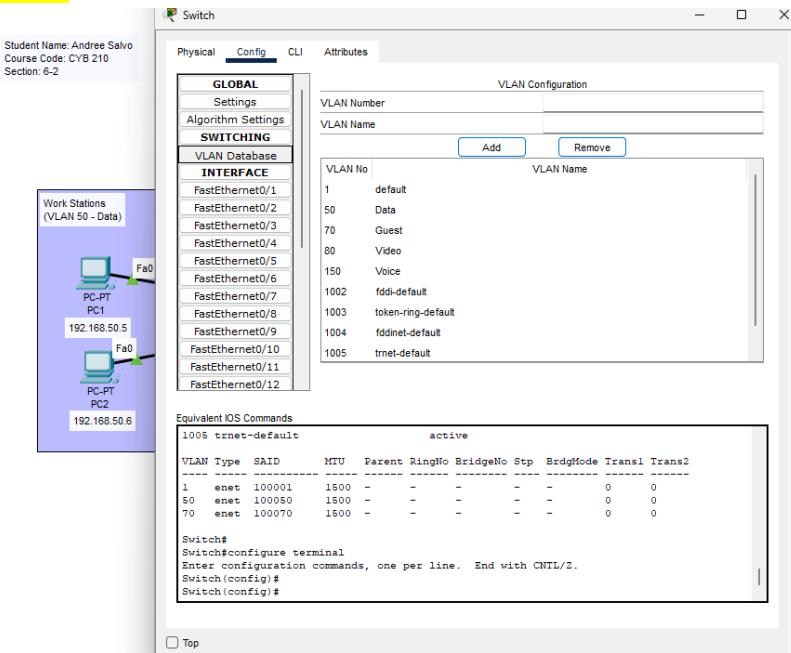


6-2 Project One Submission: Network Modification Brief

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I. Network Reconfigurations

Step A: Properly configure the VLAN for guest and video connections



1. Opened the switch

2. Clicked VLAN

Database

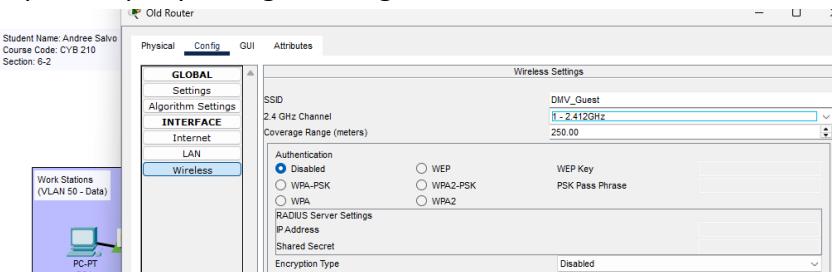
3. I added VLANs

Guest 70 and Video

80. VLAN 50 and

VLAN 150 were preset.

Step B: Properly configure the guest wireless network

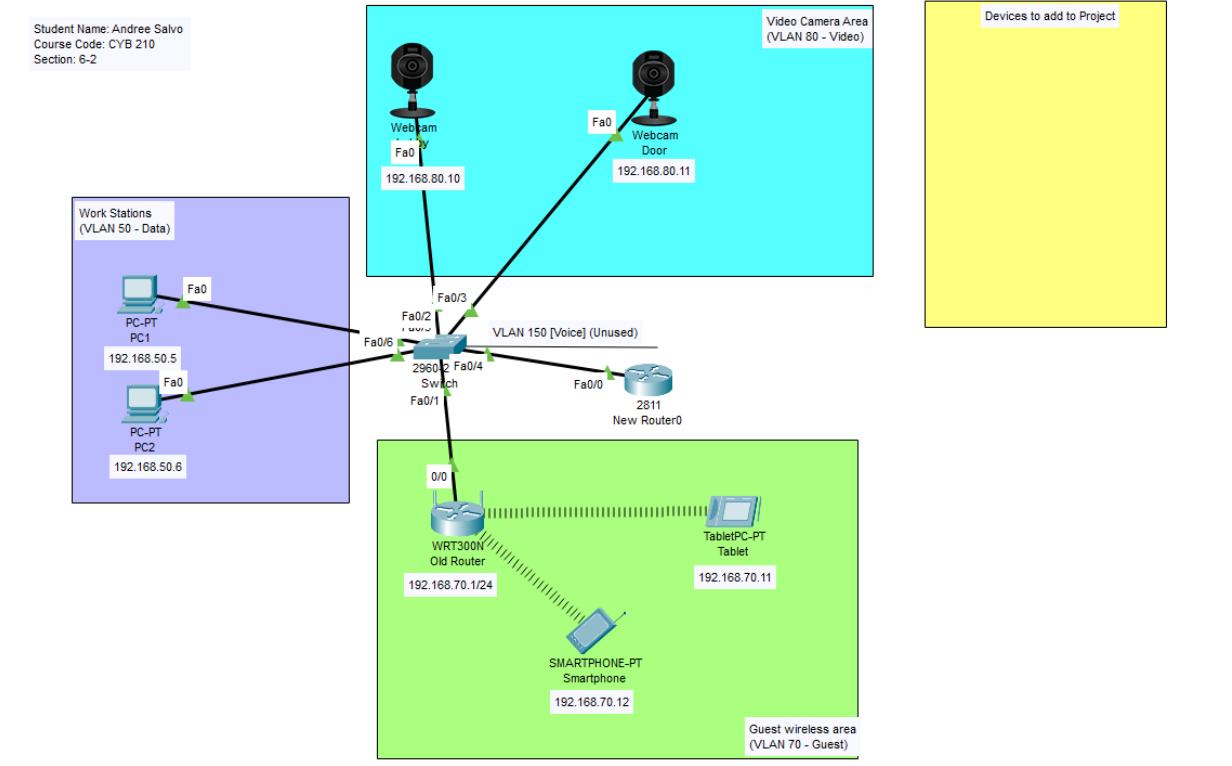


Explanation:

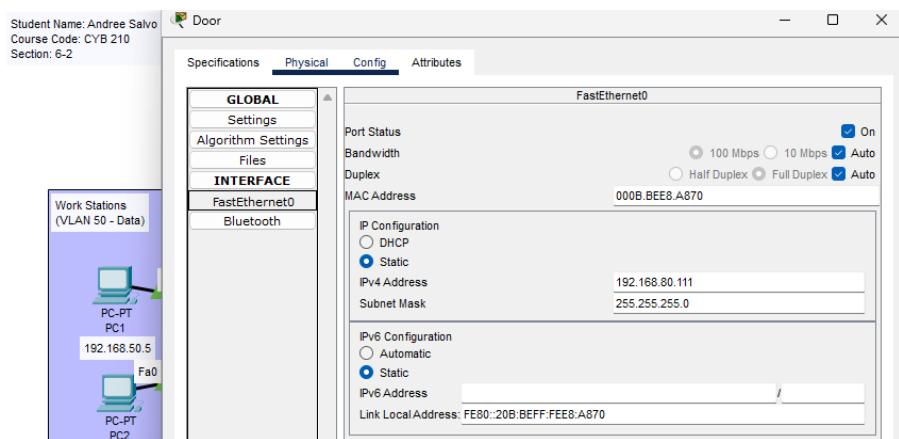
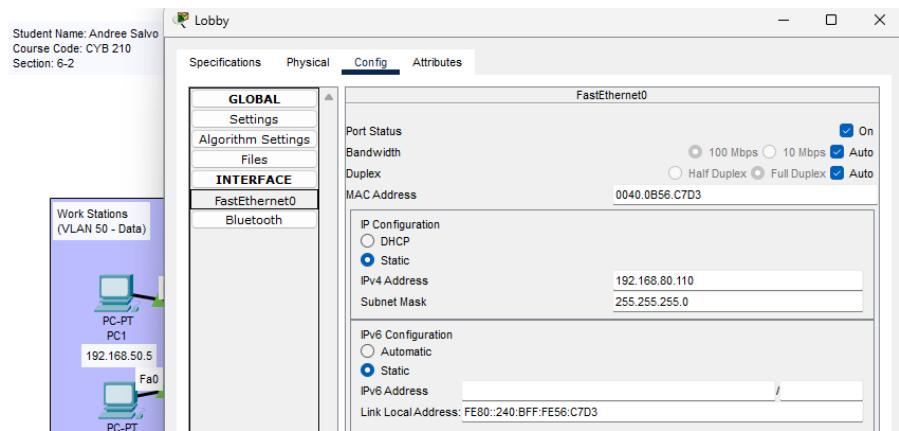
1. Opened the OLD Router
2. Click the config tab
3. Select Wireless
4. Renamed the "SSID" to "DMV_Guest"
5. Authentication > I disabled

Step C: Make sure that **devices** are connected to the guest wireless network

Answer: they are connected



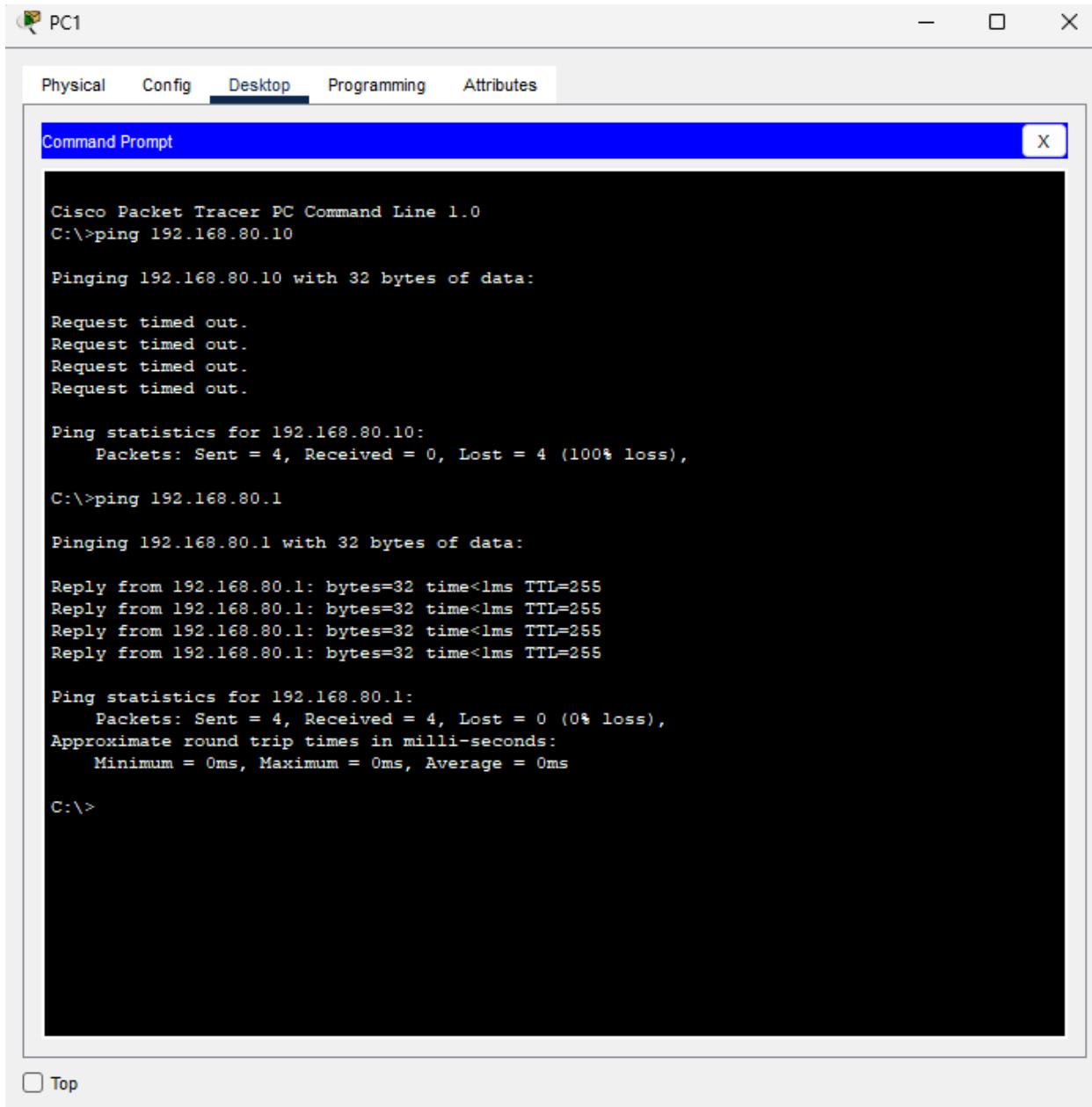
Step D: Make sure that cameras are connected to the video network



Answer: Cameras are connected!

Step E: Make sure that guest and video networks are **properly segmented**, ping tests that prove you have met this project requirement.

Answer: I pinged the cameras, and they are properly segmented!



PC1

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.80.10

Pinging 192.168.80.10 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.80.10:
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>ping 192.168.80.1

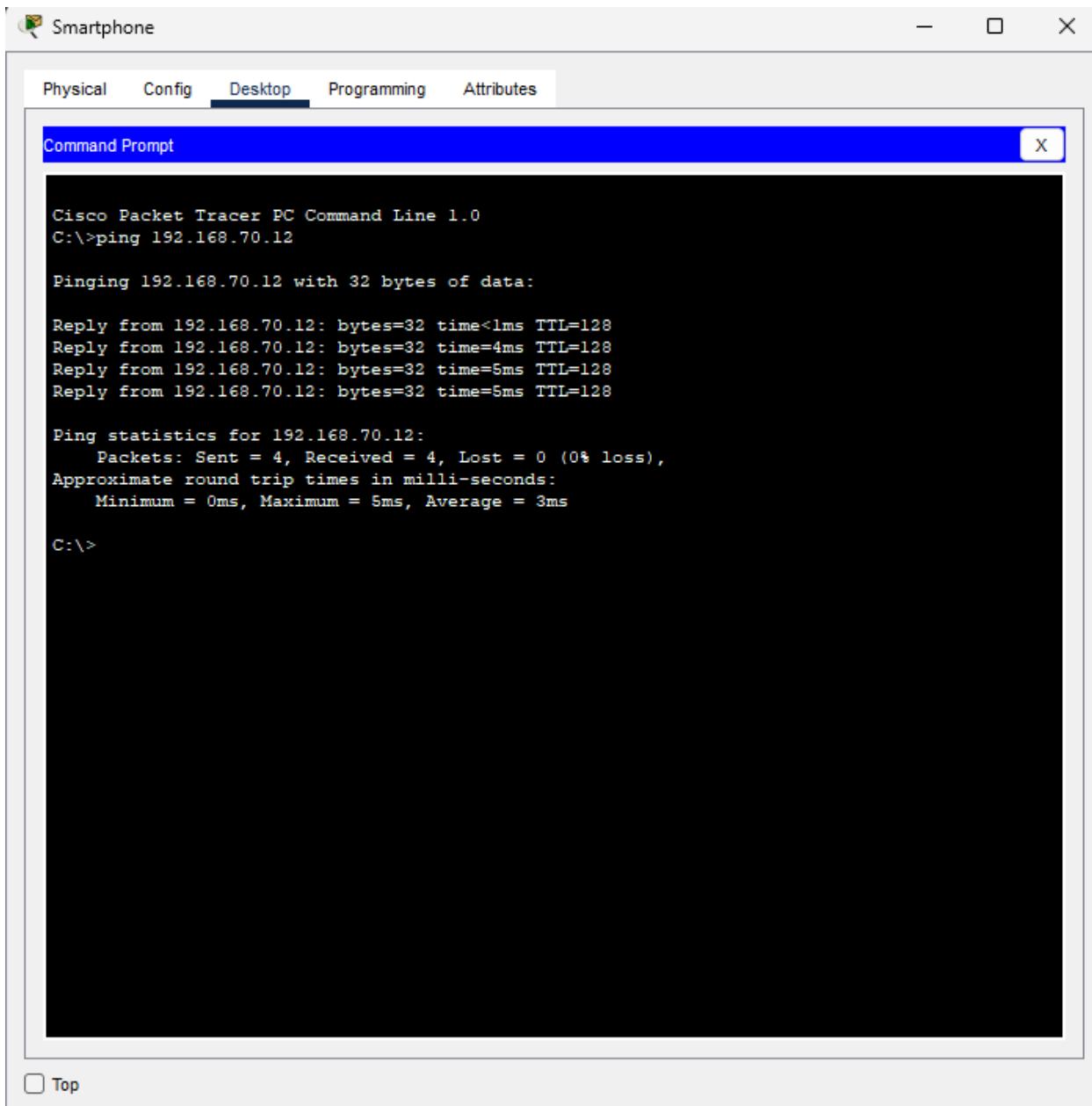
Pinging 192.168.80.1 with 32 bytes of data:

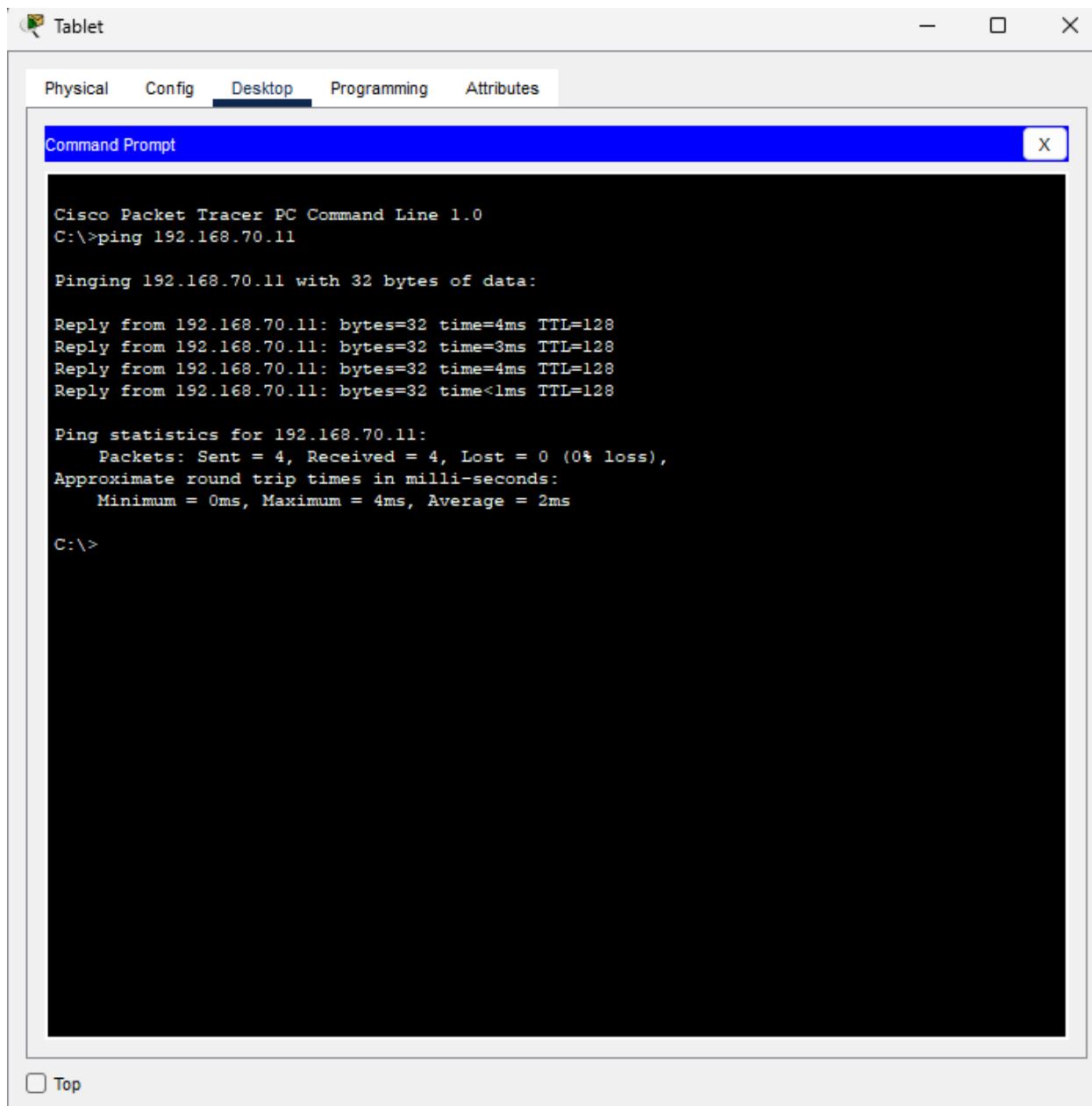
Reply from 192.168.80.1: bytes=32 time<lms TTL=255

Ping statistics for 192.168.80.1:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Top





NOTE: I added a new router in Cisco Packet Tracer to enable communication between all VLANs.

Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
FastEthernet0/0	Up	--	<not set>	<not set>	00D0.97B9.B701
FastEthernet0/0.50	Up	--	192.168.50.1/24	<not set>	00D0.97B9.B701
FastEthernet0/0.70	Up	--	192.168.70.1/24	<not set>	00D0.97B9.B701
FastEthernet0/0.80	Up	--	192.168.80.1/24	<not set>	00D0.97B9.B701
FastEthernet0/1	Down	--	<not set>	<not set>	00D0.97B9.B702
Vlan1	Down	1	<not set>	<not set>	00D0.BC82.D5D7

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router0

I. Explanation of Network Segregation

A. Describe how network traffic was segmented to meet the project requirements for guest and video connections.

Explanation: The switch segmented the network traffic by multiple VLAN databases. (1) VLAN 70, VLAN 70 is to be used for the guest, which connects to a wireless router, smartphone, and tablet. (2) VLAN 80 is for video. There were only two webcams for this scenario: "Lobby" and "Door." (3) Lastly, VLAN 50 and 150 were already preset and were already segmented by two PCs. PC1 and PC2. VLAN 50 is data, and VLAN 150 is Voice. All four of these VLANs connect together by the switch, and all four work together differently.

B. Explain how you considered the scalability of the guest wireless network in order to meet the project requirements (IP addressing, leasing, and so on).

Explanation: The scalability of meeting the project requirements allows up to 70 users to connect to a wireless network through the DHCP IP address. I did this from the Router's GUI tab. Although the DMV may be slow, guests are not there for longer than 4 hours and cannot be connected to the guest network for a long.