2025

6-2 Project One Submission: Network Modification Brief

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Cyb 210
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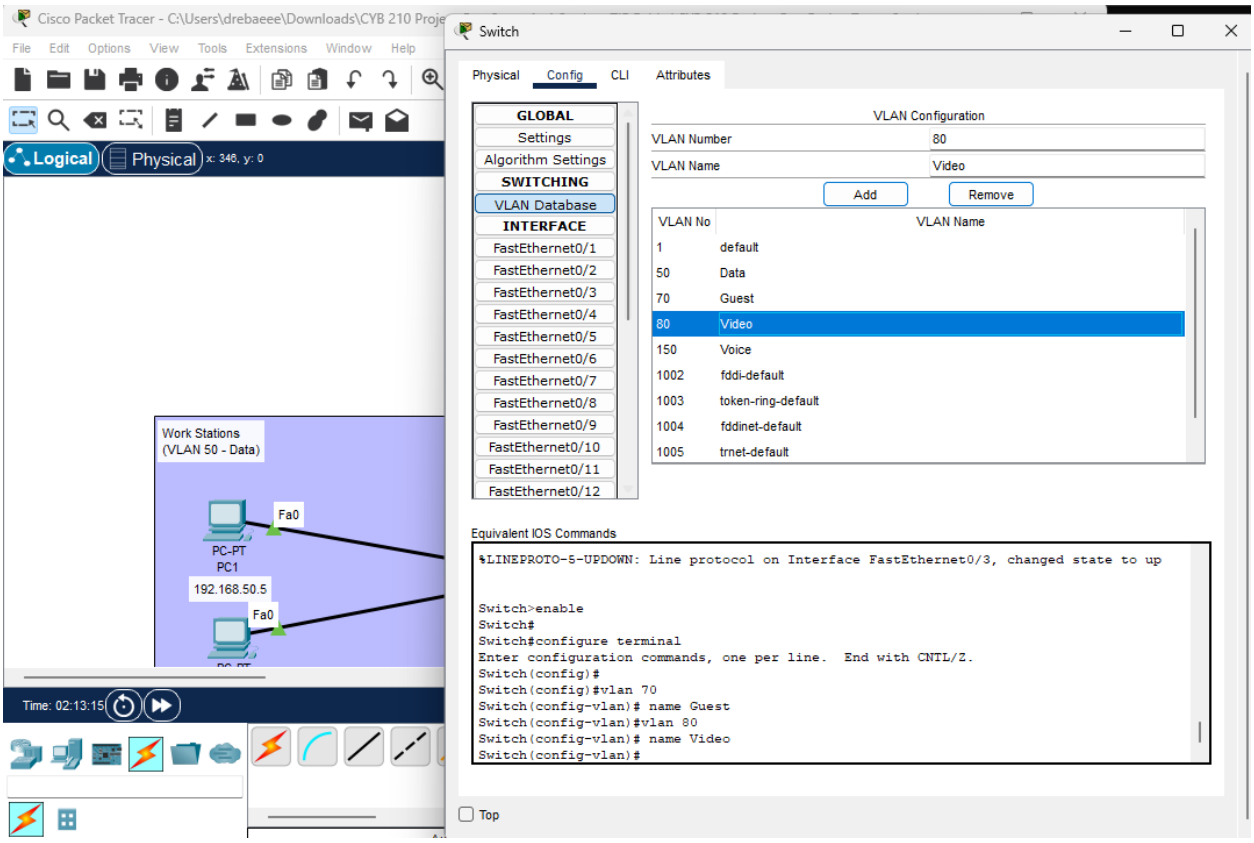
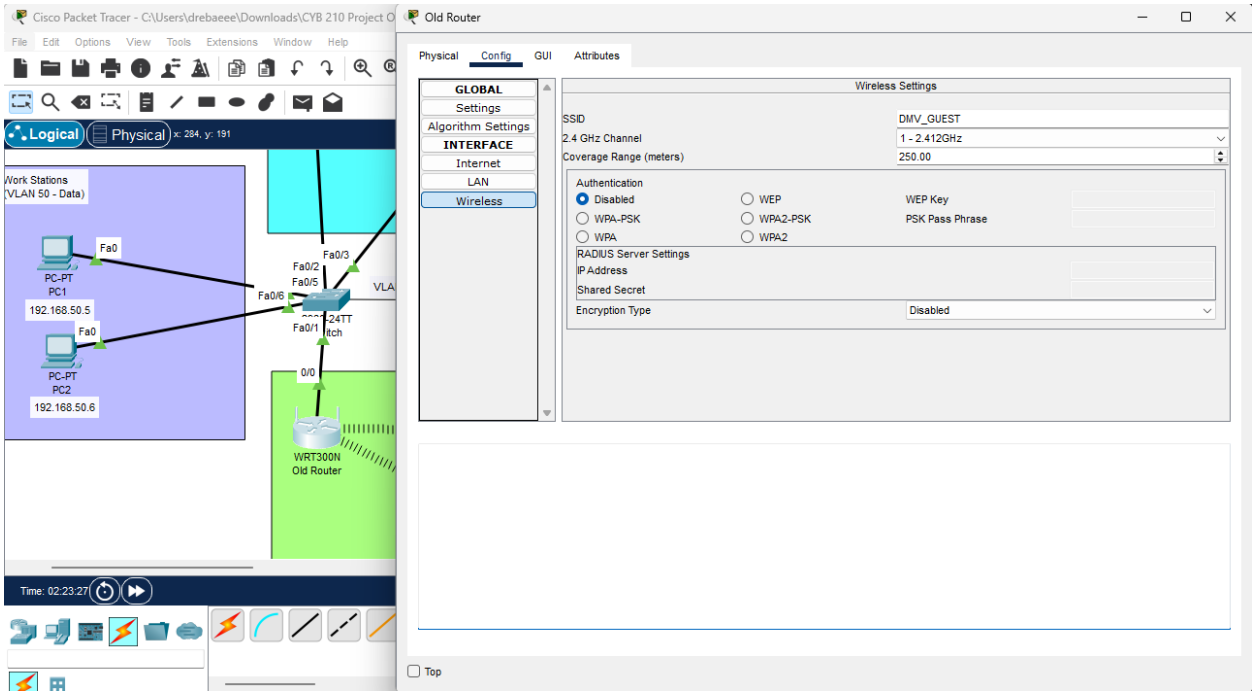
I. Network Reconfiguration

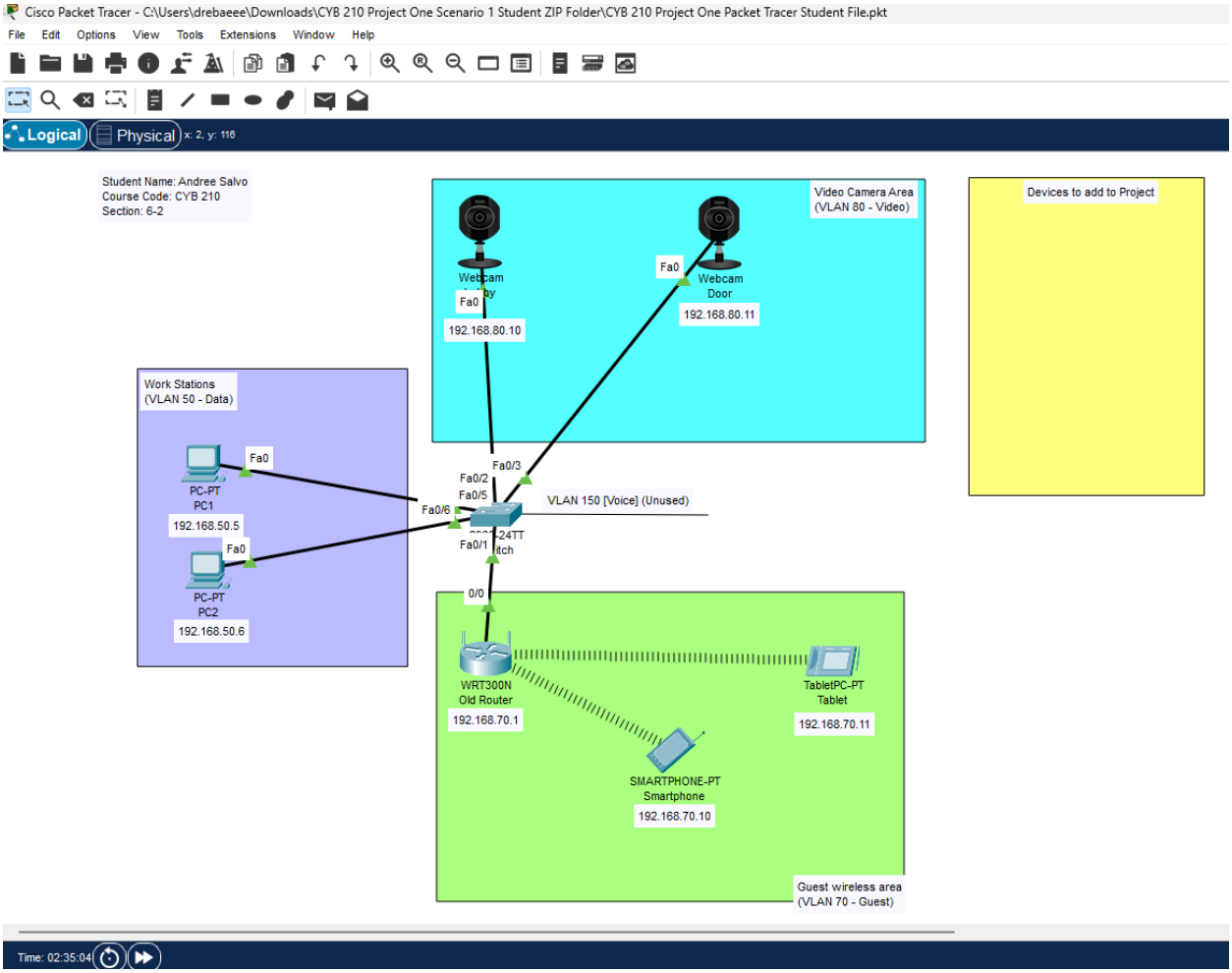


A. Configure the **VLAN** for guest and video connections to meet the project requirements. Submit a screenshot of the VLAN table.

B. Properly configure the **guest wireless network** to meet the project requirements. Submit a screenshot of the wireless settings for the wireless router

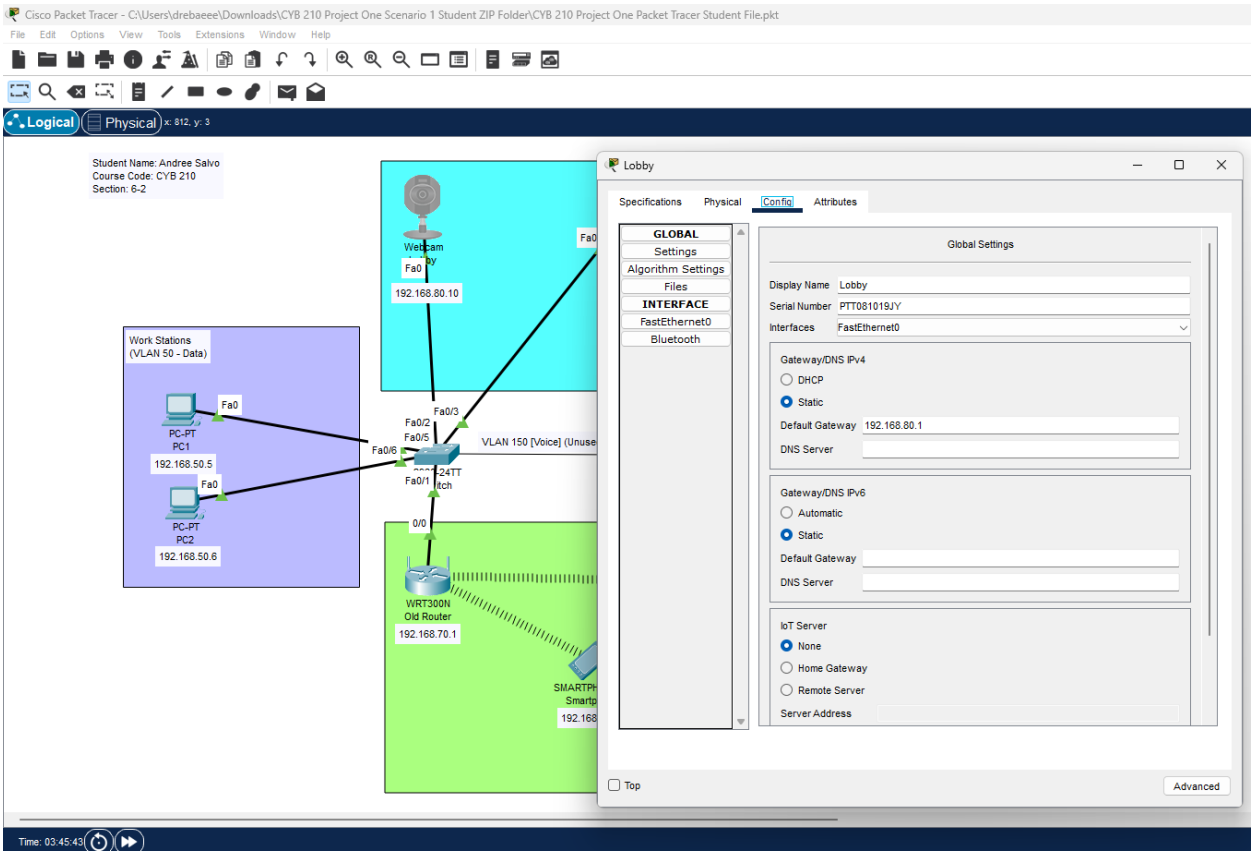


C. Make sure that **devices** are connected to the guest wireless network to meet the project requirements. IP addresses for the devices should be noted in the network diagram PNG or PDF

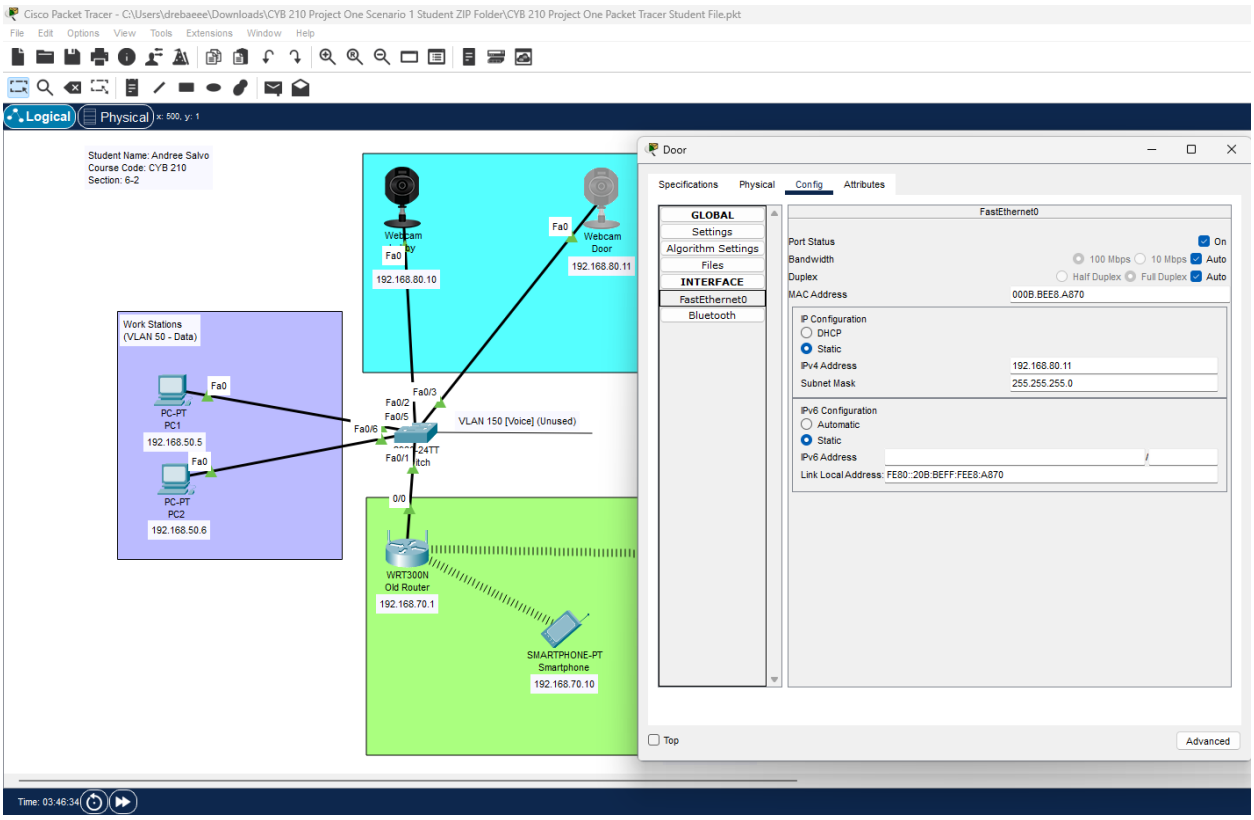


D. Make sure that **cameras** are connected to the video network to meet the project requirements. IP addresses for the cameras should be noted in the network diagram PNG or PDF.

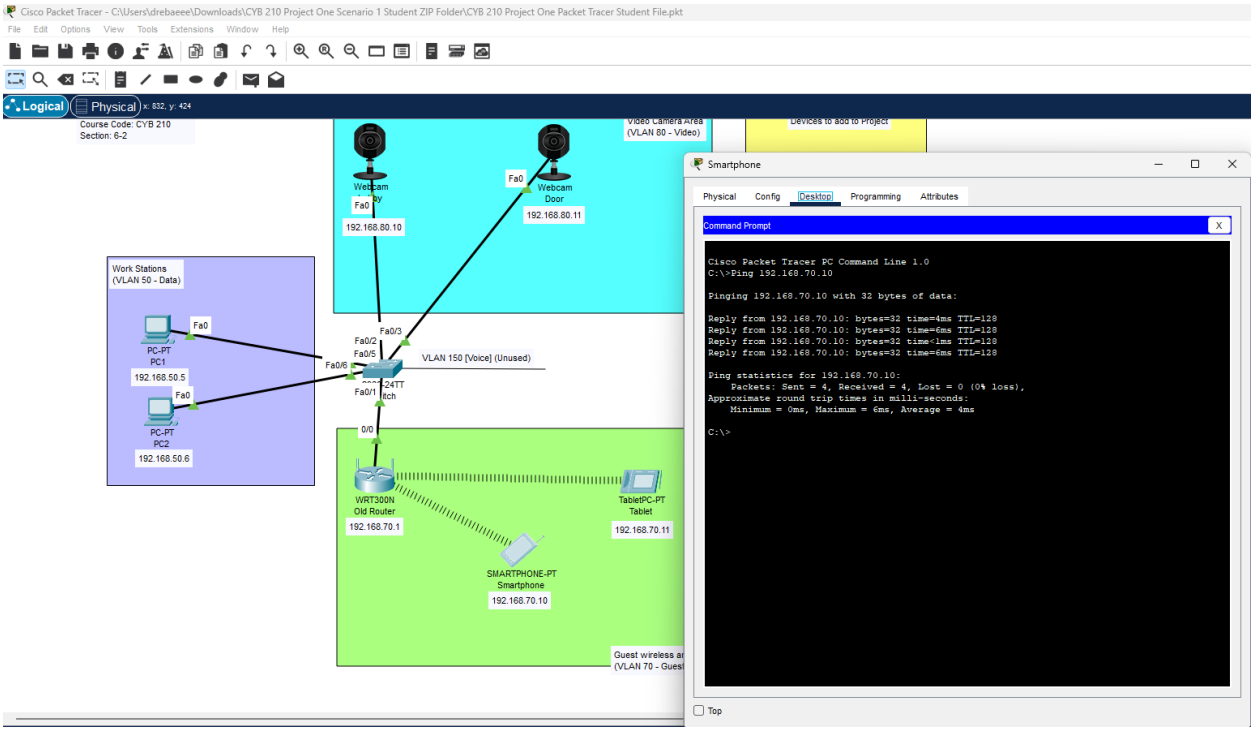
(Lobby Camera)

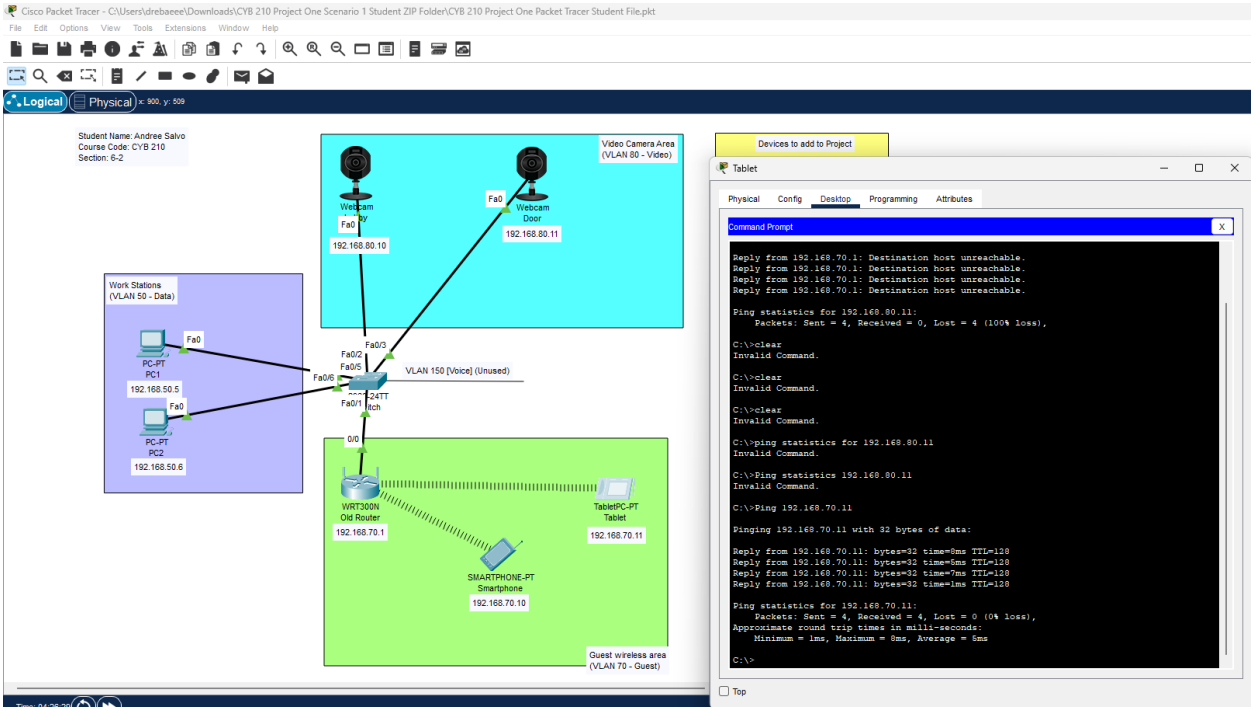


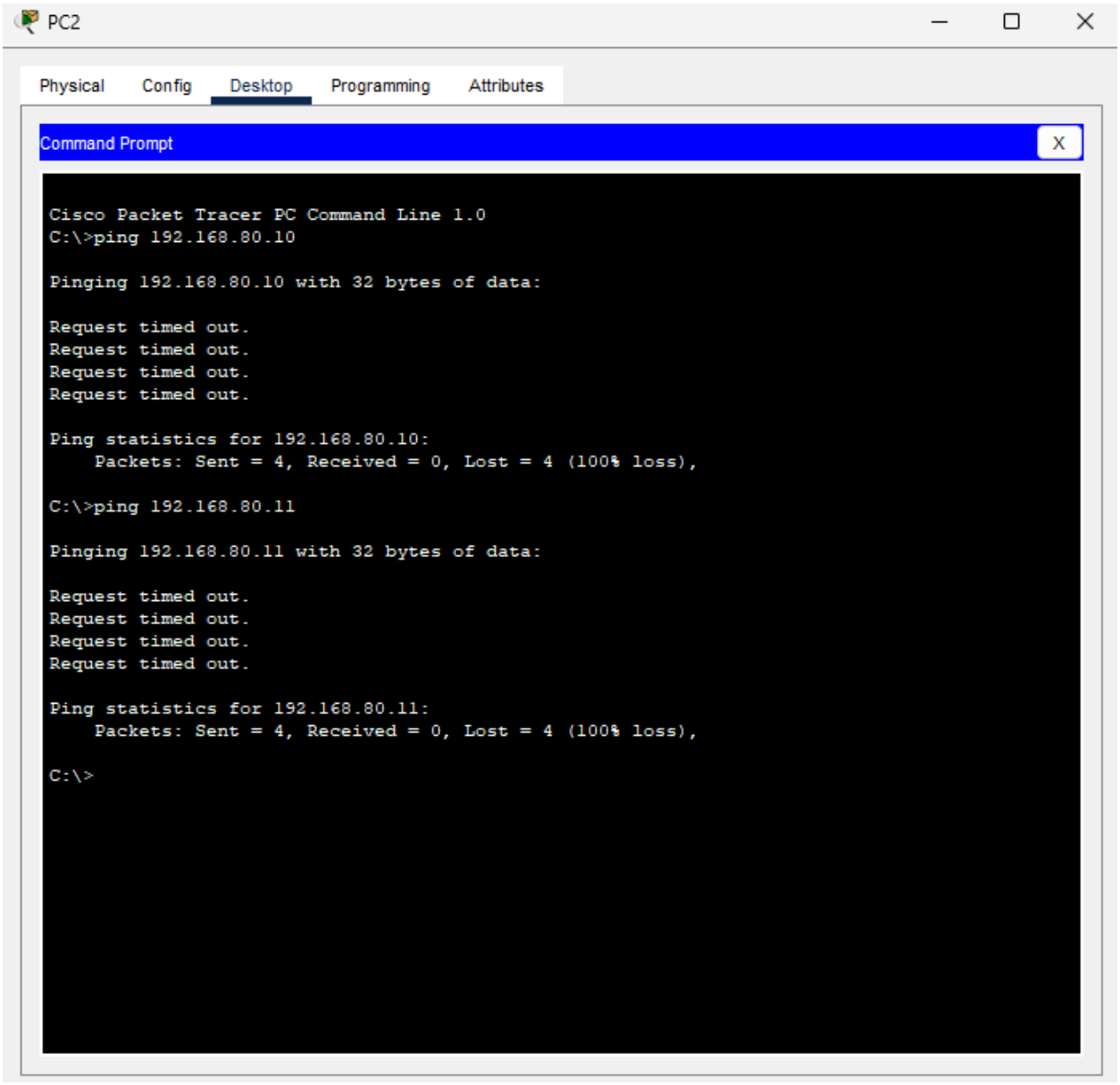
(Door Camera)


Cisco Packet Tracer - C:\Users\drebaeee\Downloads\CYB 210 Project One Scenario 1 Student ZIP Folder\CYB 210 Project One Packet Tracer Student File.pkt
File Edit Options View Tools Extensions Window Help
Logical
Physical
Student Name: Andree Salvo
Course Code: CYB 210
Section: 6-2
Webcam
Fa0
192.168.80.10
Webcam
Door
Fa0
192.168.80.11
Work Stations
(VLAN 50 - Data)
PC-PT
PC1
Fa0
192.168.50.5
PC-PT
PC2
Fa0
192.168.50.6
Fa0/3
Fa0/2
Fa0/5
Fa0/6
Fa0/1
VLAN 150 [Voice] (Unused)
0/0
WRT300N
Old Router
192.168.70.1
SMARTPHONE-PT
Smartphone
192.168.70.10
Door
Specifications
Physical
Config
Attributes
GLOBAL
Settings
Algorithm Settings
Files
INTERFACE
FastEthernet0
Bluetooth
FastEthernet0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
000B.BEE8.A870
IP Configuration
DHCP
Static
IPv4 Address
192.168.80.11
Subnet Mask
255.255.255.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address:
FE80::20B:BEFF:FEE8:A870
Top
Advanced
Time: 03:46:34

E. Make sure that guest and video networks are **properly segmented.** Submit screenshots of ping tests that prove you have met this project requirement.






PC2
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 192.168.80.11
Pinging 192.168.80.11 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.80.11:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>

II. 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.