



Polytechnic University of Puerto Rico

Department of Electrical Engineering

Hato Rey

Module 3 Project COE 4331

Computer Networks Laboratory

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Introduction

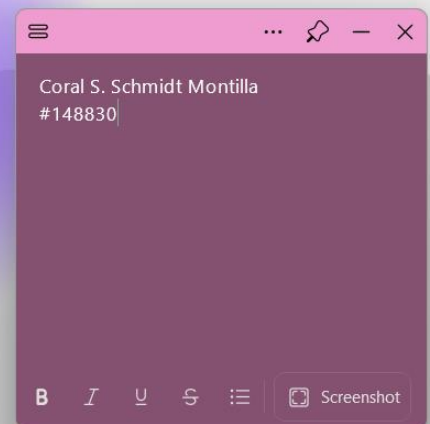
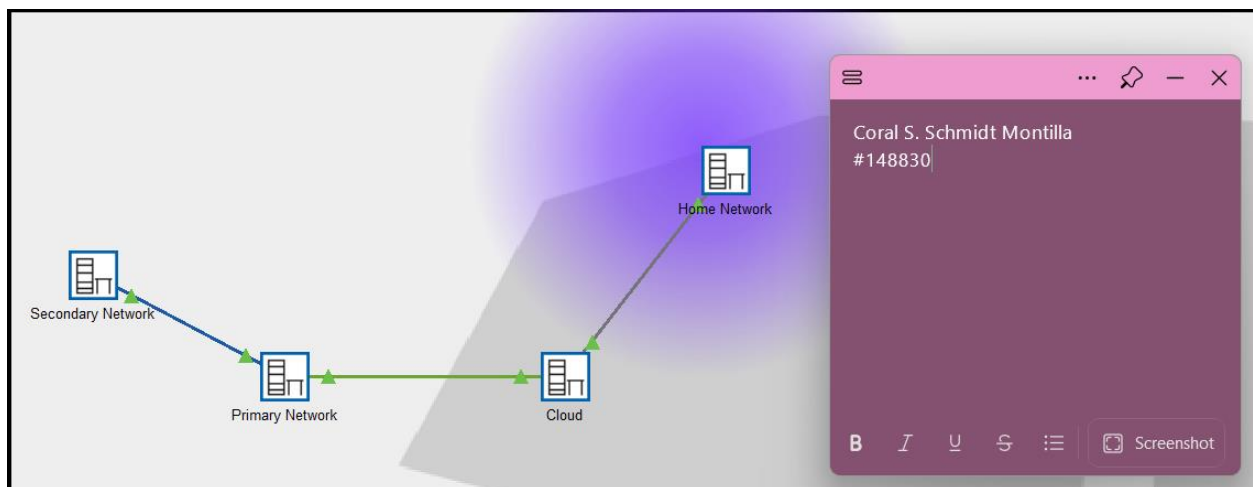
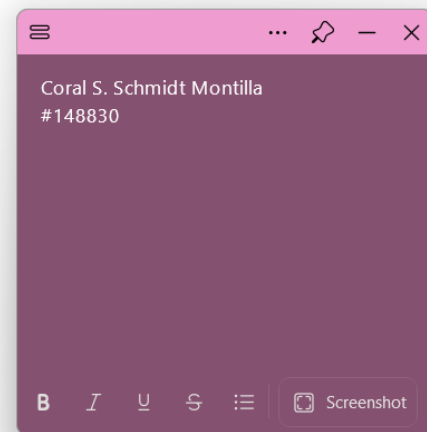
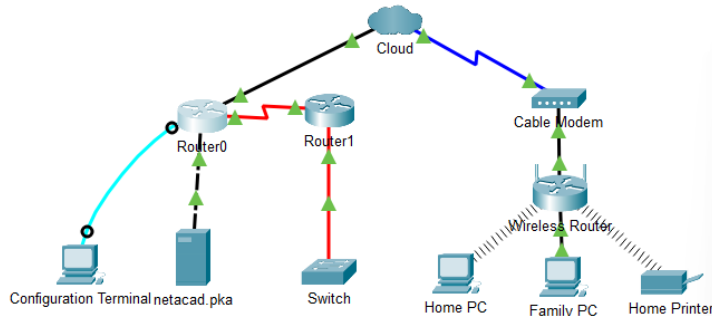
In this report, I will be demonstrating the final results of setting up a wired and wireless LAN using Cisco Packet Tracer, as well as the grade I received for the activity. Initially, the process seemed challenging, but with the help of some YouTube tutorials, I was able to complete the activity successfully.

Method

During the activity, I learned how to connect different networking devices, including routers, switches, and PCs, and how to establish both wired and wireless connections. Initially, I struggled with correctly selecting the appropriate cables and configuring the interfaces, but the tutorials helped clarify the steps. Gradually, I was able to understand the importance of using the correct cable type for different network components and how to enable and test connectivity between them.

By the end of the exercise, I had successfully set up all connections, verified their statuses, and tested the network for proper functionality. The key takeaway for me was the significance of using the command line interface to configure routers, as well as the proper order of connections to avoid errors. The final grade I received for this activity reflected the successful completion of all required tasks.

Final look:



Lab Results

Cisco Packet Tracer - C:/Users/coral/Downloads/4.6.5 Packet Tracer - Connect a Wired and Wireless LAN.pka - Coral - 2024-11-27 23:10:05

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:39:51

Congratulations Coral! You completed the activity.

[Overall Feedback](#) [Assessment Items](#) [Connectivity Tests](#)

Congratulations! You successfully completed the Packet Tracer - Connecting a Wired and Wireless LAN activity. However, your final score may change based on your answers to the questions in the Instructions. Consult your instructor.

Close

Cisco Packet Tracer - C:/Users/coral/Downloads/4.6.5 Packet Tracer - Connect a Wired and Wireless LAN.pka - Coral - 2024-11-27 23:10:05

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:41:08

Congratulations Coral! You completed the activity.

[Overall Feedback](#) [Assessment Items](#) [Connectivity Tests](#)

[Expand/Collapse All](#) [Show Only Incorrect Item](#)

Assessment Items	Status	Points	Component(s)	Feedback
Network				
Cable Modem				
Ports				
Port 0		0	Other	
Link to Cloud		0	Other	
Port 1	✓ Connects to Coaxial7	5	Device Connection	
Link to Wireless Router		0	Other	
Connects to Internet	Correct	5	Device Connection	
Cloud				
Ports				
Coaxial7		0	Other	
Link to Cable Modem		0	Other	
Connects to Port 0	Correct	5	Device Connection	
Ethernet6		0	Other	
Link to Router0		0	Other	
Connects to FastEthernet0/0	Correct	5	Device Connection	
Configuration Terminal				
RS 232		0	Other	
Link to Router0		0	Other	
Connects to Console	Correct	5	Device Connection	
Family PC				
Ports				
FastEthernet0		0	Other	
Link to Wireless Router		0	Other	
Connects to Ethernet 1	Correct	5	Device Connection	
netacad.pka				
Ports				
FastEthernet0		0	Other	
Link to Router0		0	Other	
Connects to FastEthernet0/1	Correct	5	Device Connection	
Router0				
Console		0	Other	
Link to Configuration Terminal		0	Other	
Connects to RS 232	Correct	5	Device Connection	
Ports				
FastEthernet0/0		0	Other	
Link to Cloud		0	Other	
Connects to Ethernet6	Correct	5	Device Connection	
FastEthernet0/1		0	Other	
Link to netacad.pka		0	Other	
Connects to FastEthernet0	Correct	5	Device Connection	
Serial0/0		0	Other	
Link to Router1		0	Other	
Connects to Serial0/0	Correct	5	Device Connection	
Router1				
Ports				
FastEthernet1/0		0	Other	
Link to Switch		0	Other	
Connects to FastEthernet0/1	Correct	5	Device Connection	
Serial0/0		0	Other	

Score : 80/80

Item Count : 16/16

Component	Items/Total	Score
Device Connection	16/16	80/80

Close

Cisco Packet Tracer - C:\Users\coral\Downloads\4.6.5 Packet Tracer - Connect a Wired and Wireless LAN.pka - Coral - 2024-11-27 23:10:05

File Edit Options View Tools Extensions Window Help

Activity Results Time Elapsed: 00:41:30

Congratulations Coral! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Only Incorrect Item

Assessment Items	Status	Points	Component(s)	Feedback
Link to Router0	Correct	5	Other	
Configuration Terminal	Correct	0	Device Connection	
RS 232	Correct	0	Other	
Link to Router0	Correct	0	Other	
Family PC	Correct	5	Device Connection	
Ports	Correct	0	Other	
FastEthernet0	Correct	0	Other	
Link to Wireless Router	Correct	0	Other	
netacad.pka	Correct	5	Device Connection	
Ports	Correct	0	Other	
FastEthernet0	Correct	0	Other	
Link to Router0	Correct	0	Other	
Router0	Correct	5	Device Connection	
Console	Correct	0	Other	
Link to Configuration Terminal	Correct	0	Other	
Links to RS 232	Correct	5	Device Connection	
Ports	Correct	0	Other	
FastEthernet0/0	Correct	0	Other	
Link to Cloud	Correct	0	Other	
Links to Ethernet6	Correct	5	Device Connection	
FastEthernet0/1	Correct	0	Other	
Link to netacad.pka	Correct	0	Other	
Links to FastEthernet0	Correct	5	Device Connection	
Link to Router1	Correct	0	Other	
Links to Serial0/0	Correct	5	Device Connection	
Router1	Correct	0	Other	
Ports	Correct	0	Other	
FastEthernet1/0	Correct	0	Other	
Link to Switch	Correct	5	Device Connection	
Serial0/0	Correct	0	Other	
Link to Router0	Correct	0	Other	
Links to Serial0/0/0	Correct	5	Device Connection	
Switch	Correct	0	Other	
Ports	Correct	0	Other	
FastEthernet0/1	Correct	0	Other	
Link to Router1	Correct	0	Other	
Links to FastEthernet1/0	Correct	5	Device Connection	
Wireless Router	Correct	0	Other	
Ports	Correct	0	Other	
Ethernet 1	Correct	0	Other	
Link to Family PC	Correct	5	Device Connection	
Internet	Correct	0	Other	
Link to Cable Modem	Correct	0	Other	
Links to Port 1	Correct	5	Device Connection	

Score : 80/80
Item Count : 16/16

Component	Items/Total	Score
Device Connection	16/16	80/80

Close

Score : 80/80

Item Count : 16/16

Component	Items/Total	Score
Device Connection	16/16	80/80

Conclusion

Overall, what initially seemed like a complex task turned into a successful learning opportunity with some extra guidance from online resources. It was satisfying to see everything come together and to gain hands-on experience with network configuration. The process highlighted that even though it can be difficult at first, persistence and utilizing available resources like tutorials can make even the most challenging tasks achievable.

References

[1] “Cisco Packet Tracer | Everything You Need to Know,” *YouTube*, 2024. Available: https://www.youtube.com/watch?v=qZB_biPOBwA. [Accessed: Nov. 28, 2024]

[2] “Packet Tracer 4.6.5 - Connect a Wired and Wireless LAN,” *YouTube*, 2024. Available: <https://www.youtube.com/watch?v=7BRwcknL2uI>. [Accessed: Nov. 28, 2024]