2025

CYB 210 5-2 Activity: Packet Tracer

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CYB 210
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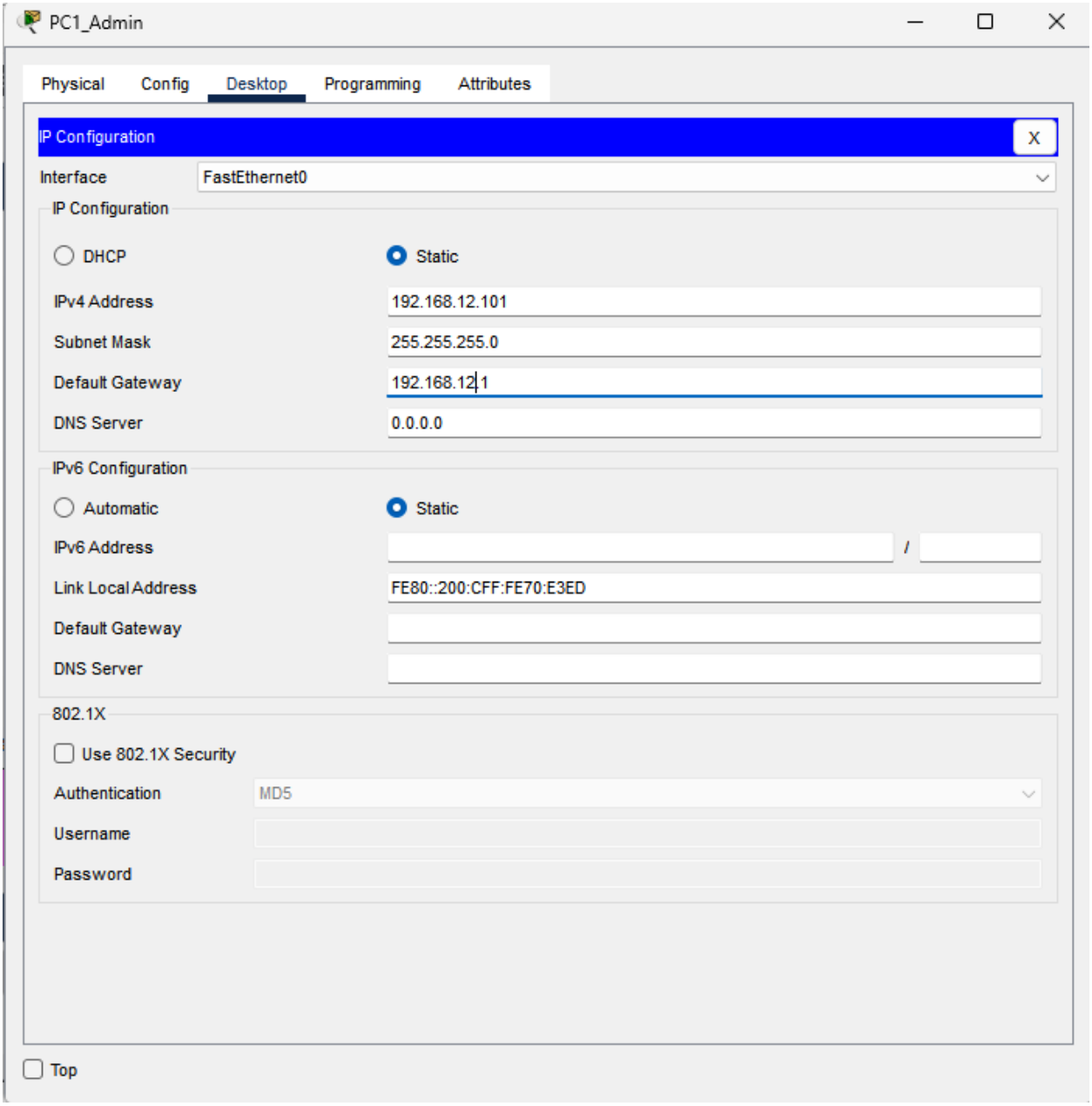
I. Change **network addressing** (subnet masks, IP addressing, and default gateway) for the new network configuration.

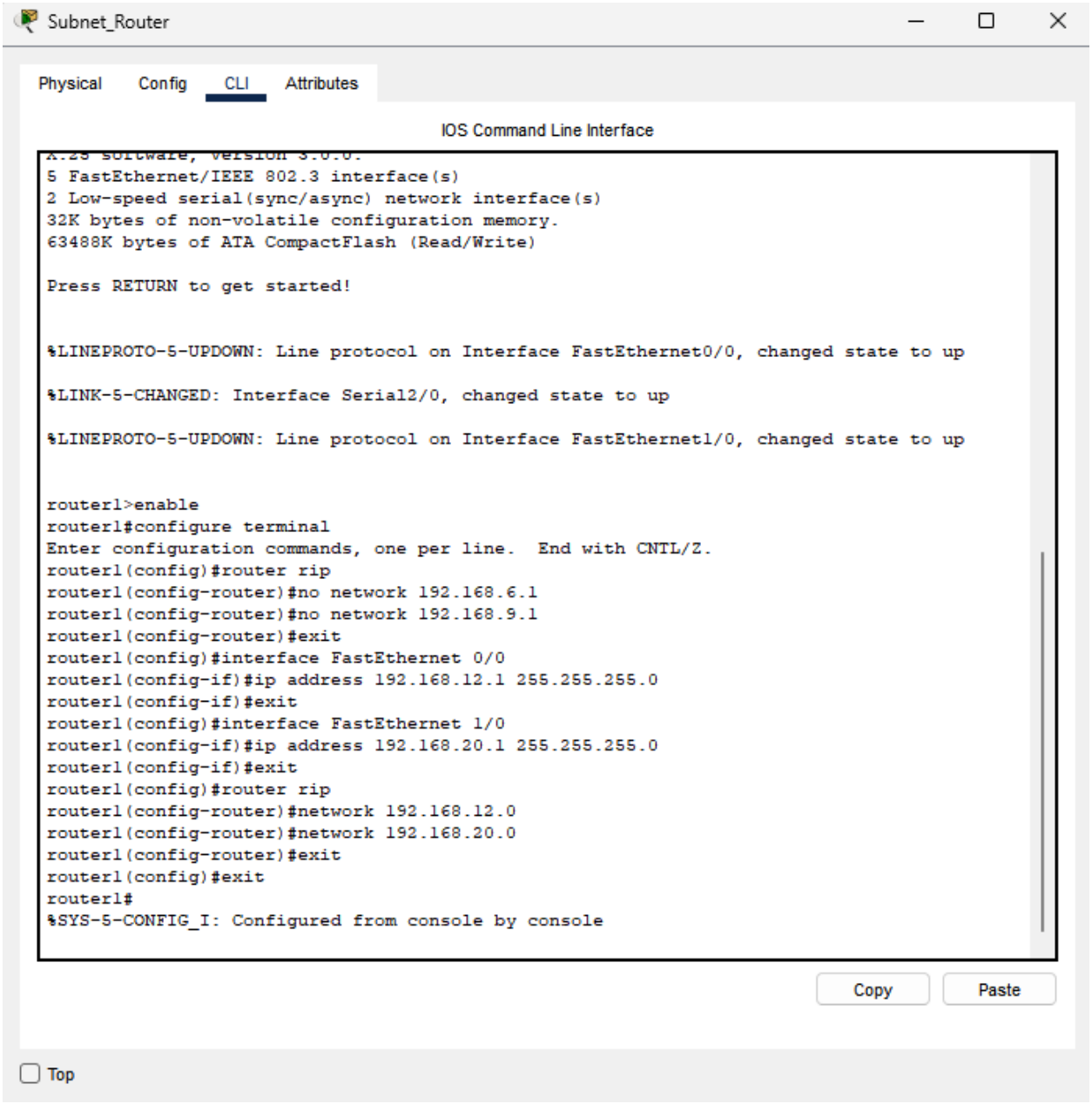
Provide an **explanation**: Configured all 4 IPV4 and default gateway to PC1, PC2,PC3, to the correct addresses.



II. Change **RIP** to accommodate two new network configurations. Submit a screenshot of the RIP Configuration dialog window and a

Given explanation:

1. I opened the Subnet Router.
2. I clicked CLI.
3. I typed the following input on the CLI console to connect to the new network configurations that was provided for me on the new spreadsheet.

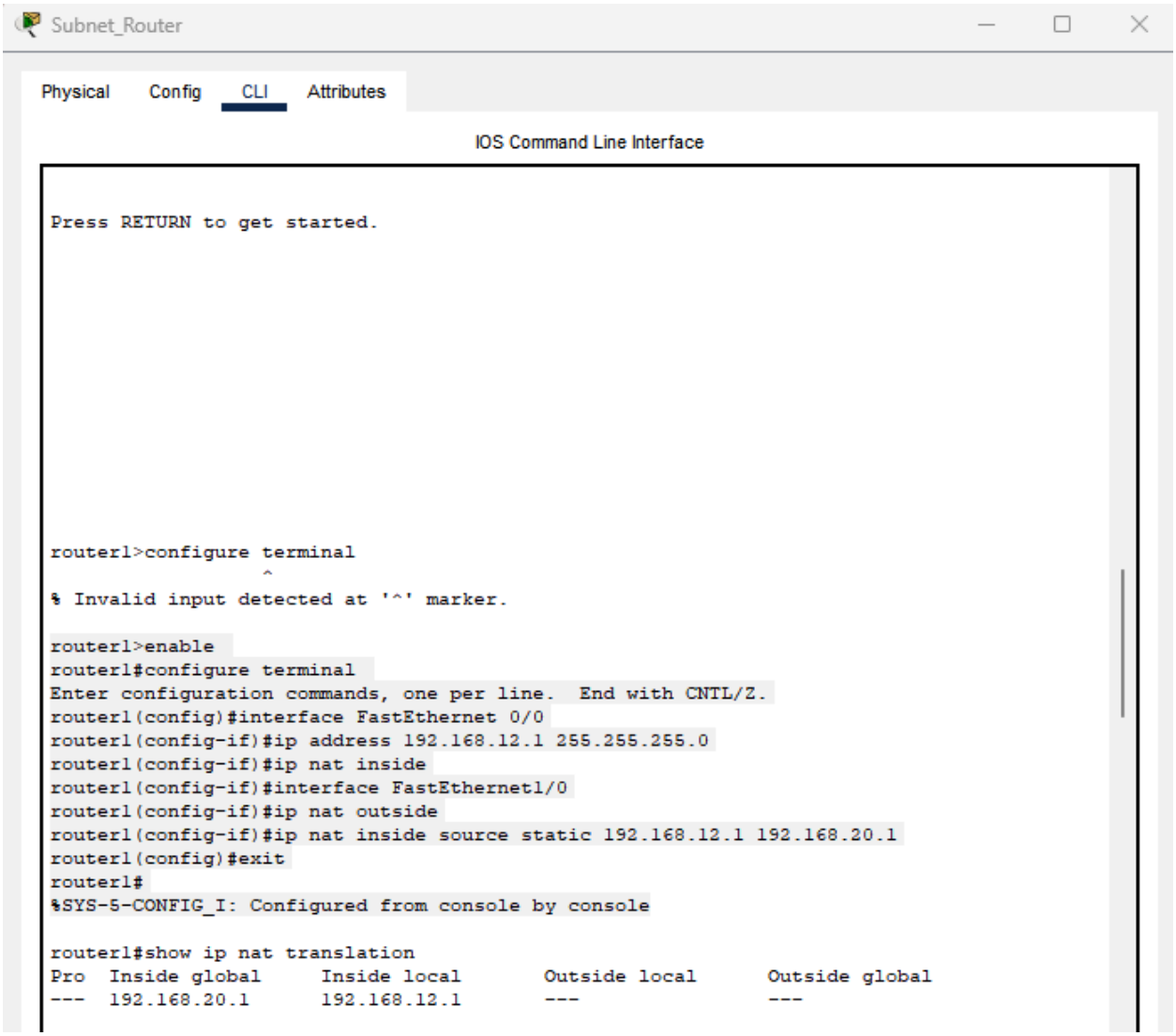


III. Configure **NAT** on the router. Submit a screenshot of the NAT translations table and a brief explanation of the steps you took.

Explanation:

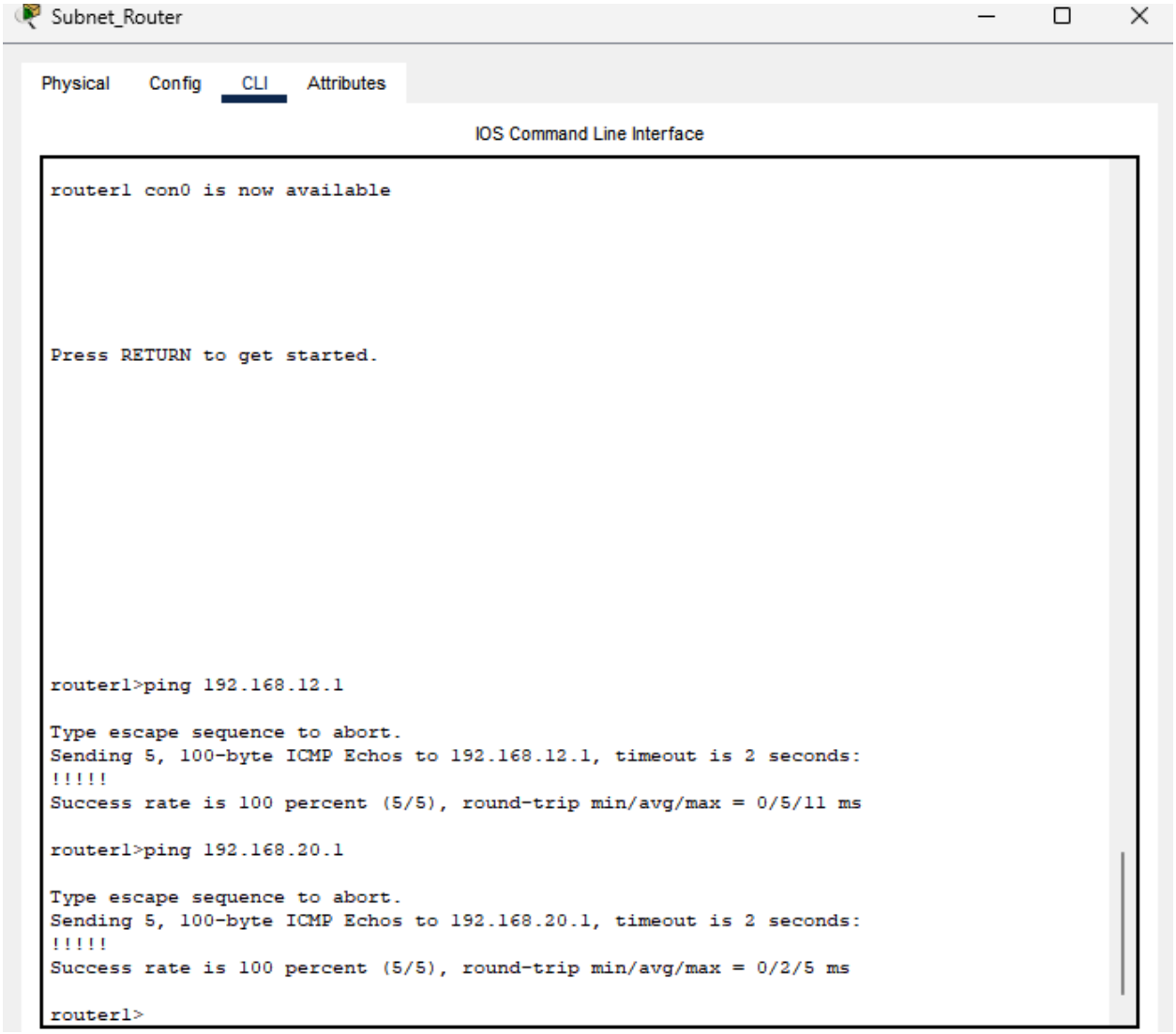
1. Open the Subnet Router
2. Click the CLI
3. The commands I used to set the IP addresses from inside and outside was

- router1>enable
- router1#configure terminal
- Enter configuration commands, one per line. End with CNTL/Z.
- router1(config)#interface FastEthernet 0/0
- router1(config-if)#ip address 192.168.12.1 255.255.255.0
- router1(config-if)#ip nat inside
- router1(config-if)#interface FastEthernet1/0
- router1(config-if)#ip nat outside
- router1(config-if)#ip nat inside source static 192.168.12.1 192.168.20.1
- router1(config)#exit
- router1#
- %SYS-5-CONFIG_I: Configured from console by console



Also, I pinged both the Ip addresses to make sure they were a success.

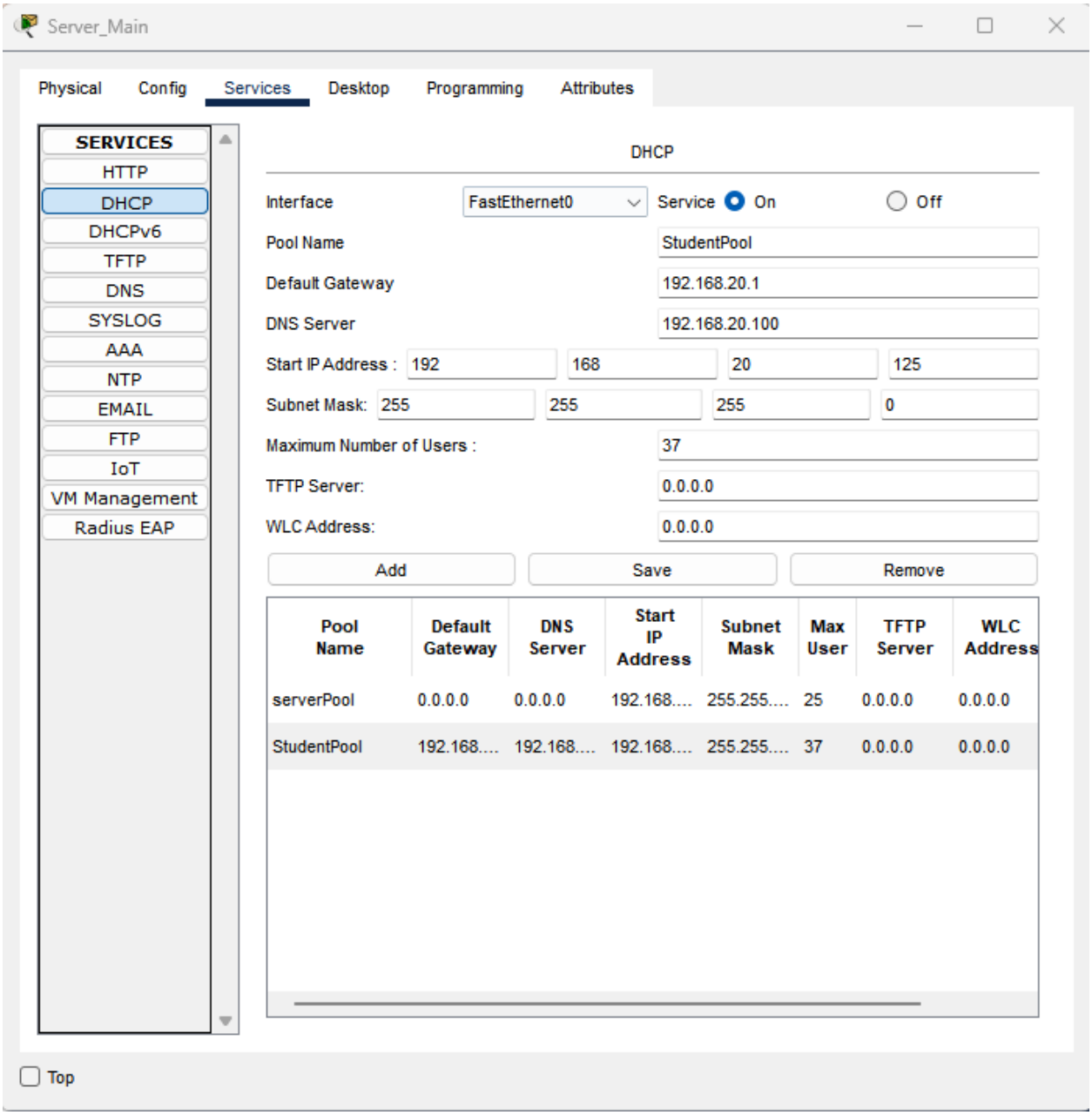
(PART OF) Configure NAT



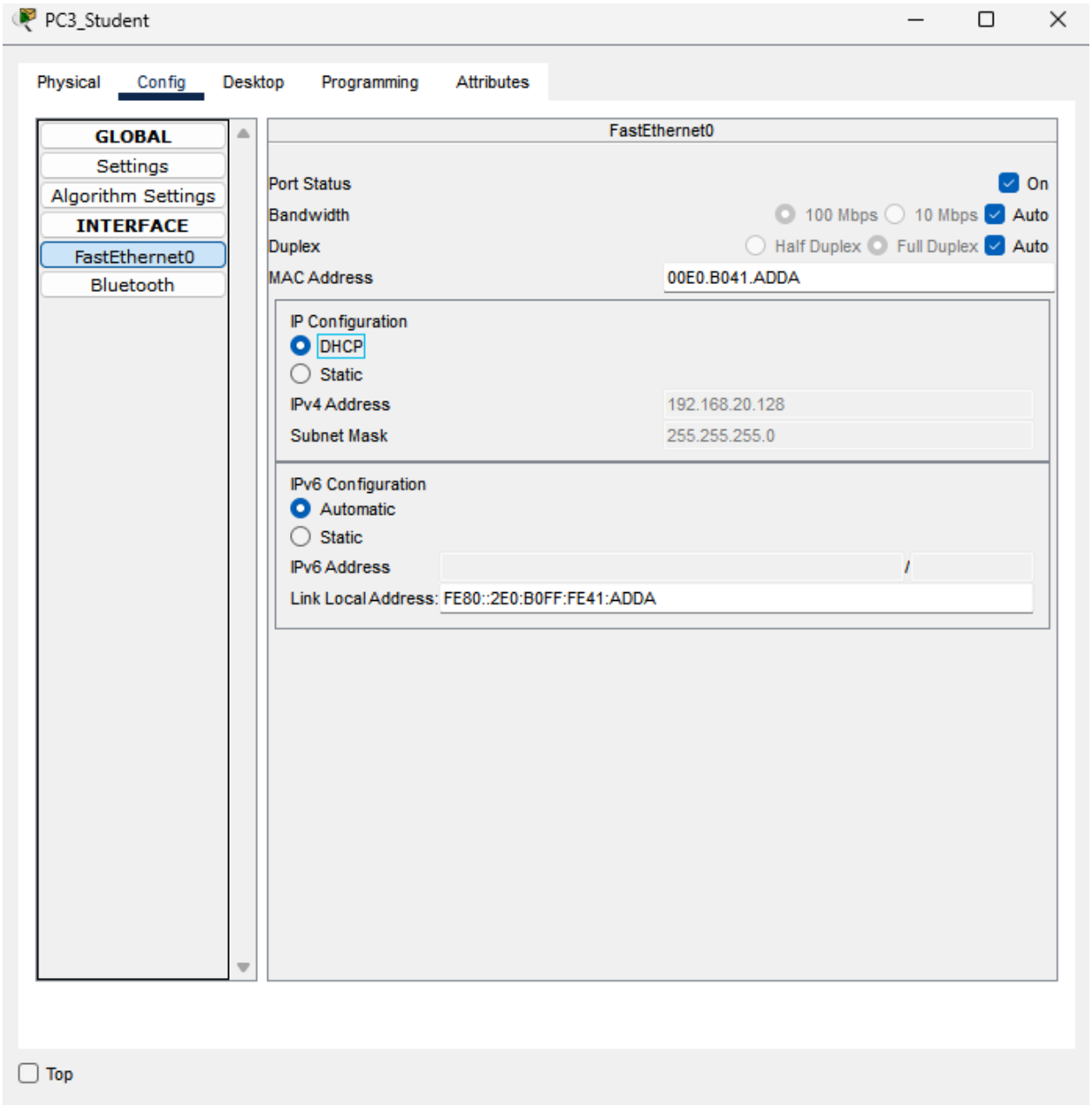
IV. Configure **DHCP services**

Explanation:

1. Created a StudentPool
2. Turned the services Off to On
3. Configured the default gateway to 192.168.20.1
4. Configured the DNS Server to 192.168.20.100
5. Start IP Address: 192.168.20.125
6. Change the max of users: 37
7. Once Finished, I clicked on every StudentPC to check and it successfully assigned the correct IP addresses to each PC and device that are in range.



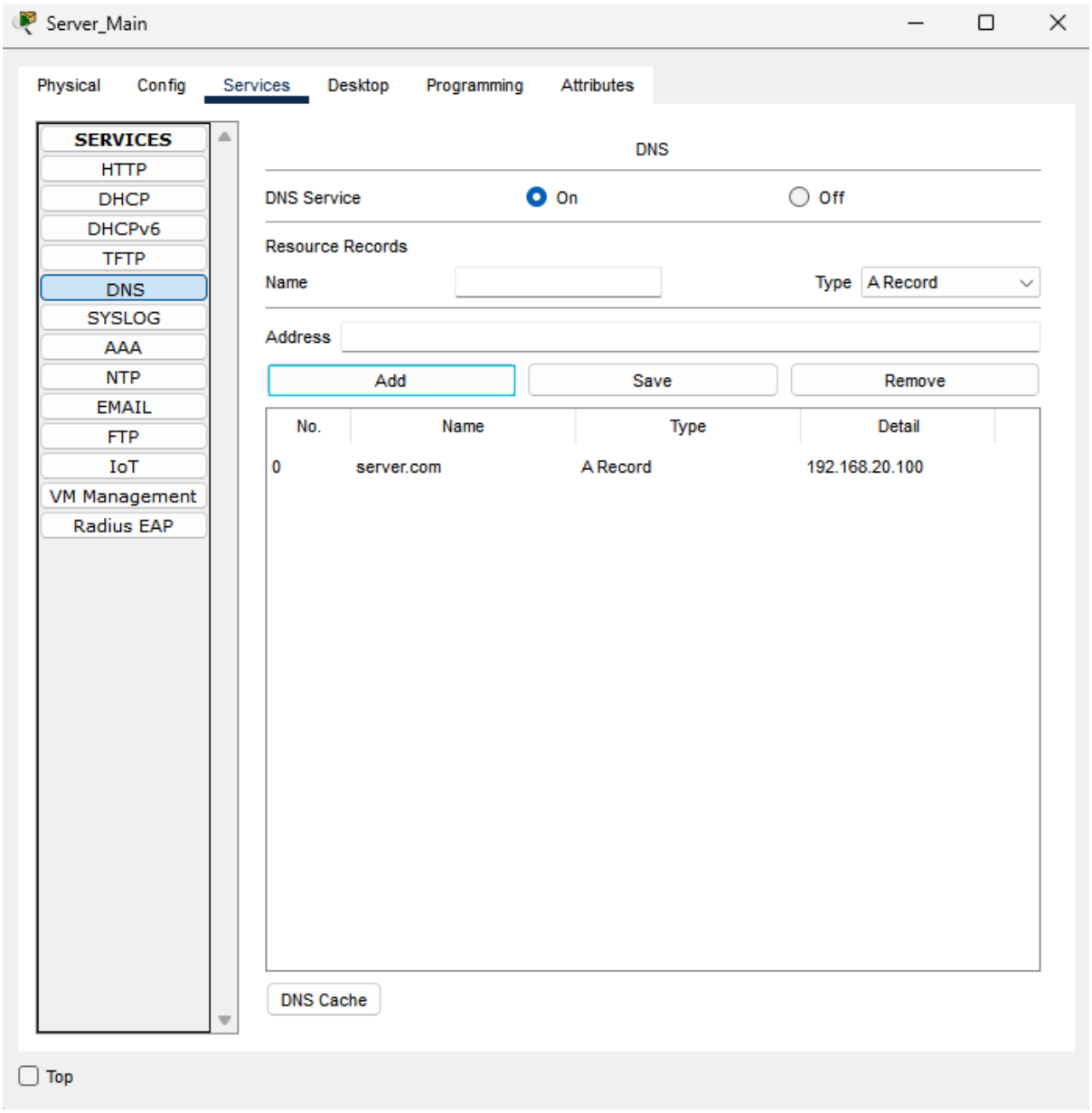
Second screenshot of PC2



V. Configure **DNS** for the server name and IP address

Explanation:

1. Click Student Server Main
2. Once in, go to Services
3. In Services, click DNS
4. Once in, Remove the first server.com
5. Turn the DNS Service to ON
6. Add a server
7. Name – Server.com
8. Type = A Record
   Photo below



VI. Label **all devices and networks** with the IP addresses