



COMPUTER NETWORK

PROJECT # 1



OCTOBER 28, 2025

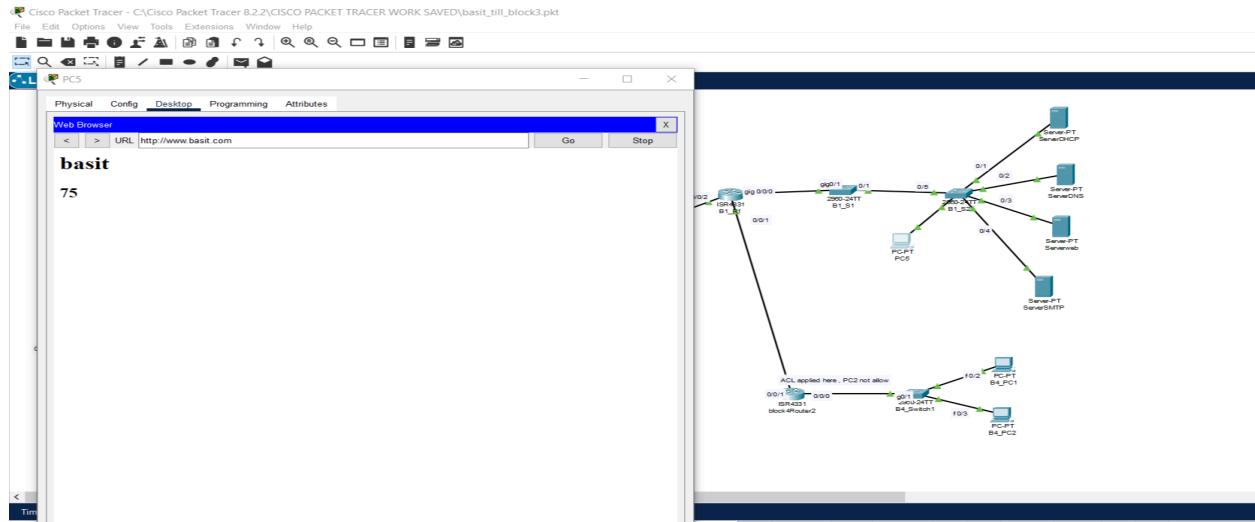
SUBMITTED TO: Zeeshan Ali

SUBMITTED BY: Muhammad Abdul Basit Subhani

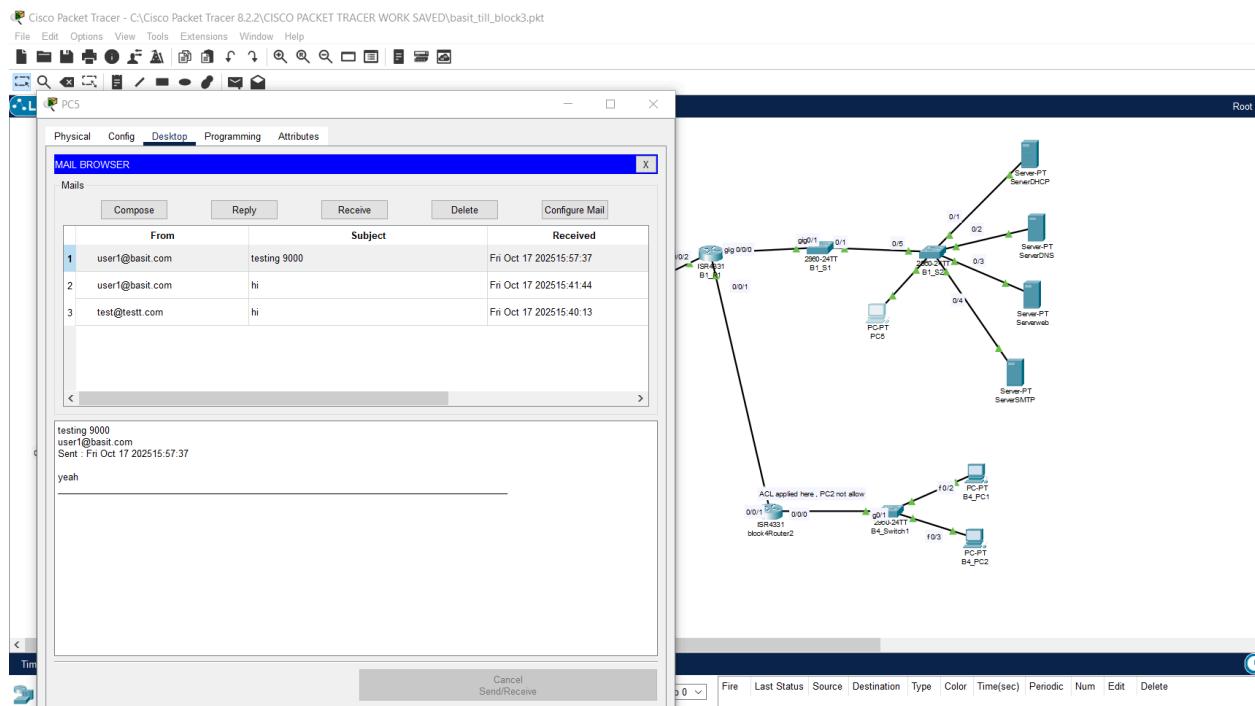
ROLL # BSAI 24075

Step 1: Block1 [Marks:02]

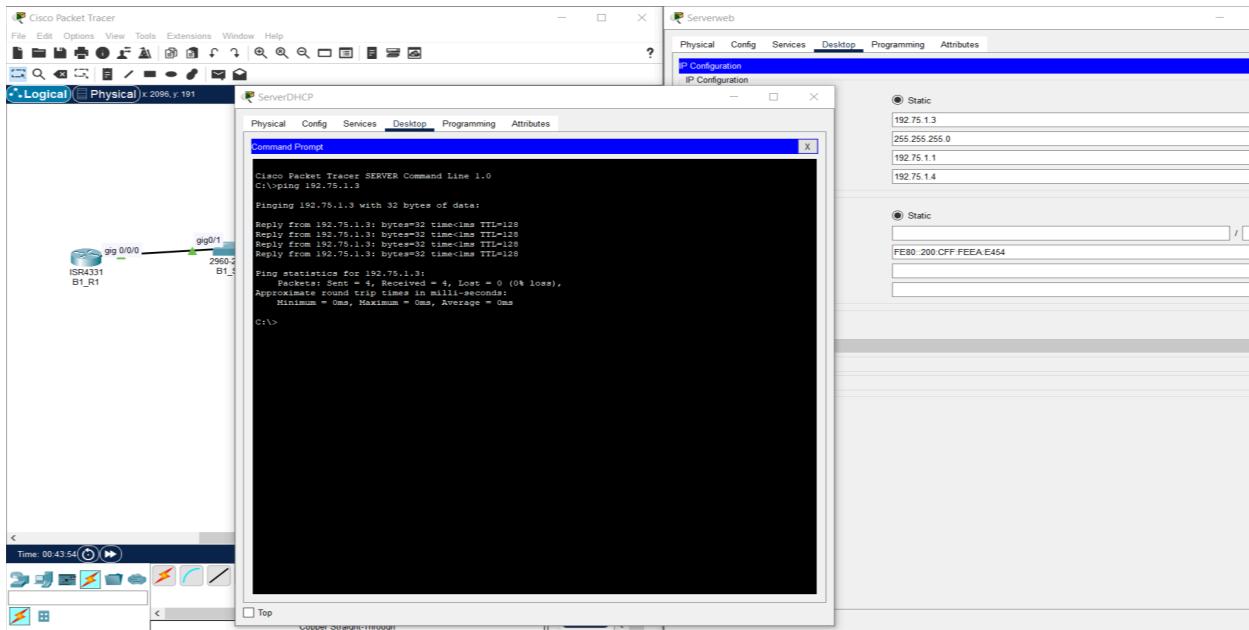
Web Test



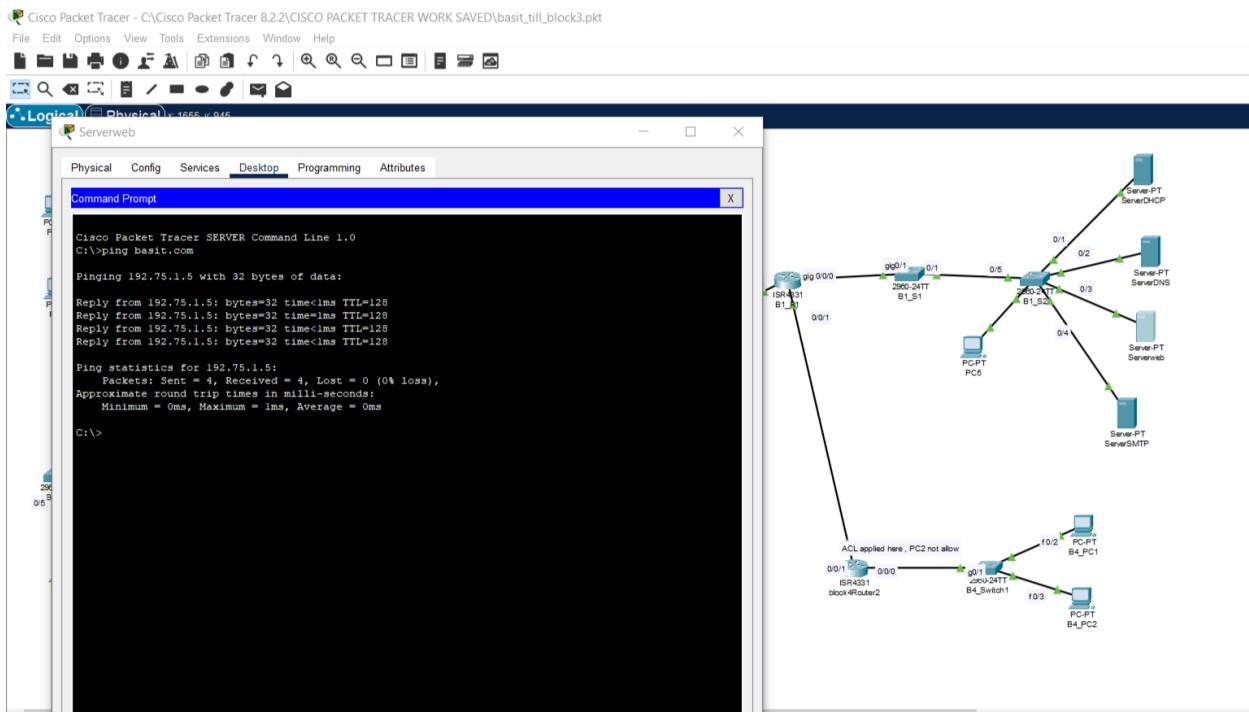
Mail Test:



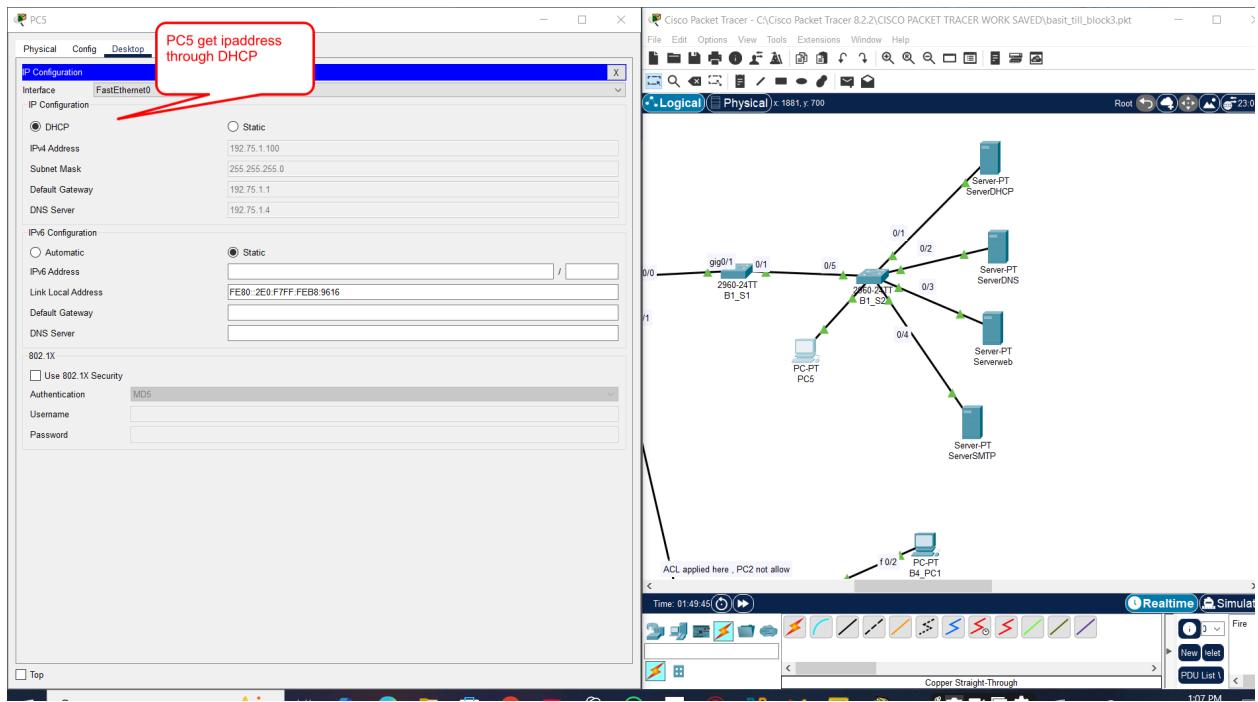
Pinging between servers



DNS Test:

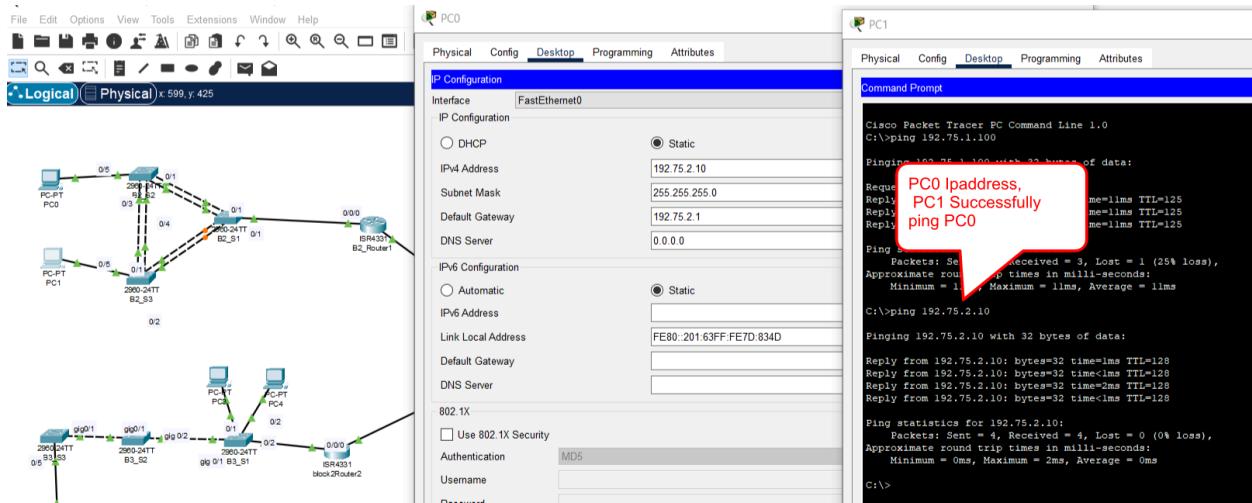


DHPC TEST

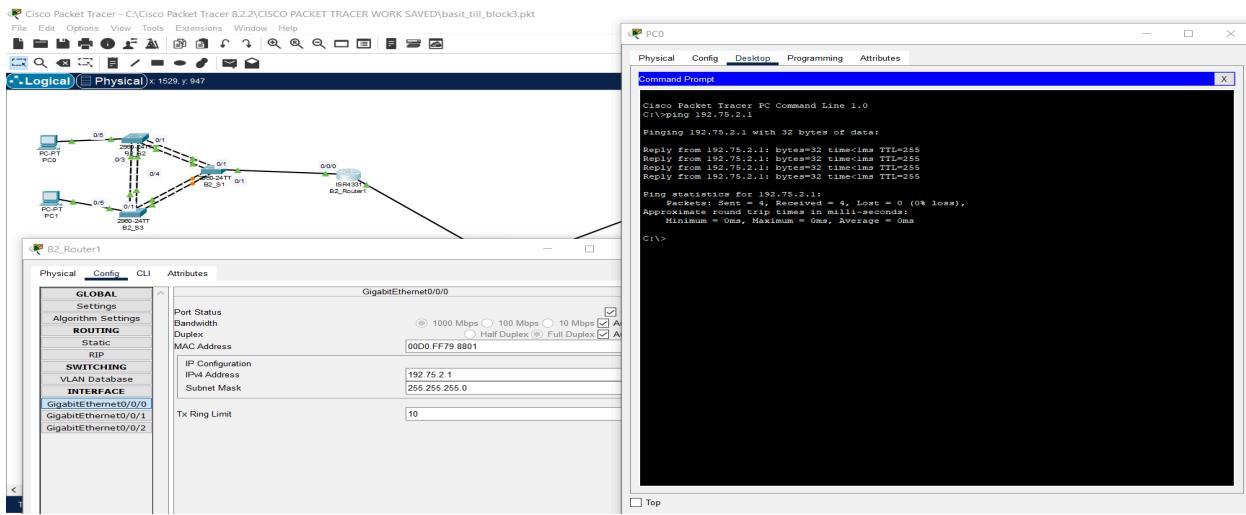


STEP2 (BLOCK 2):

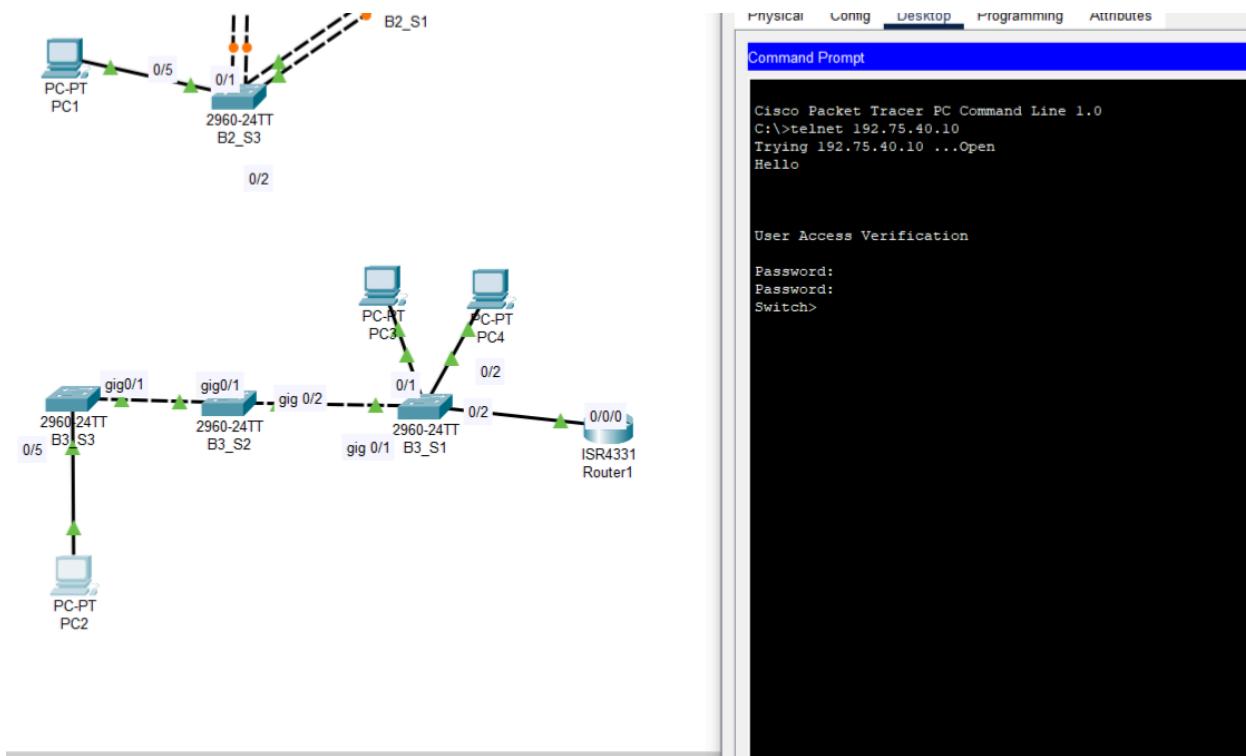
Pinging between PC's of block 2 successfull



Ping PC0 with router:

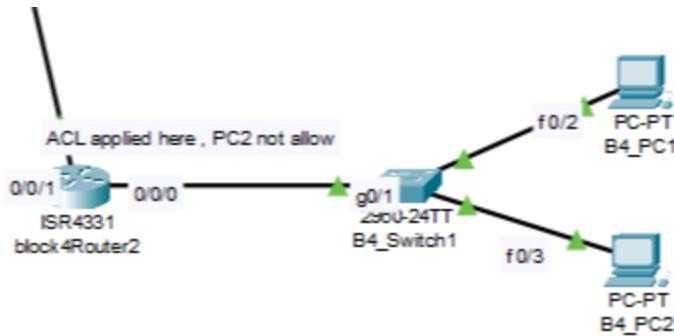


STEP 3 (BLOCK 3):



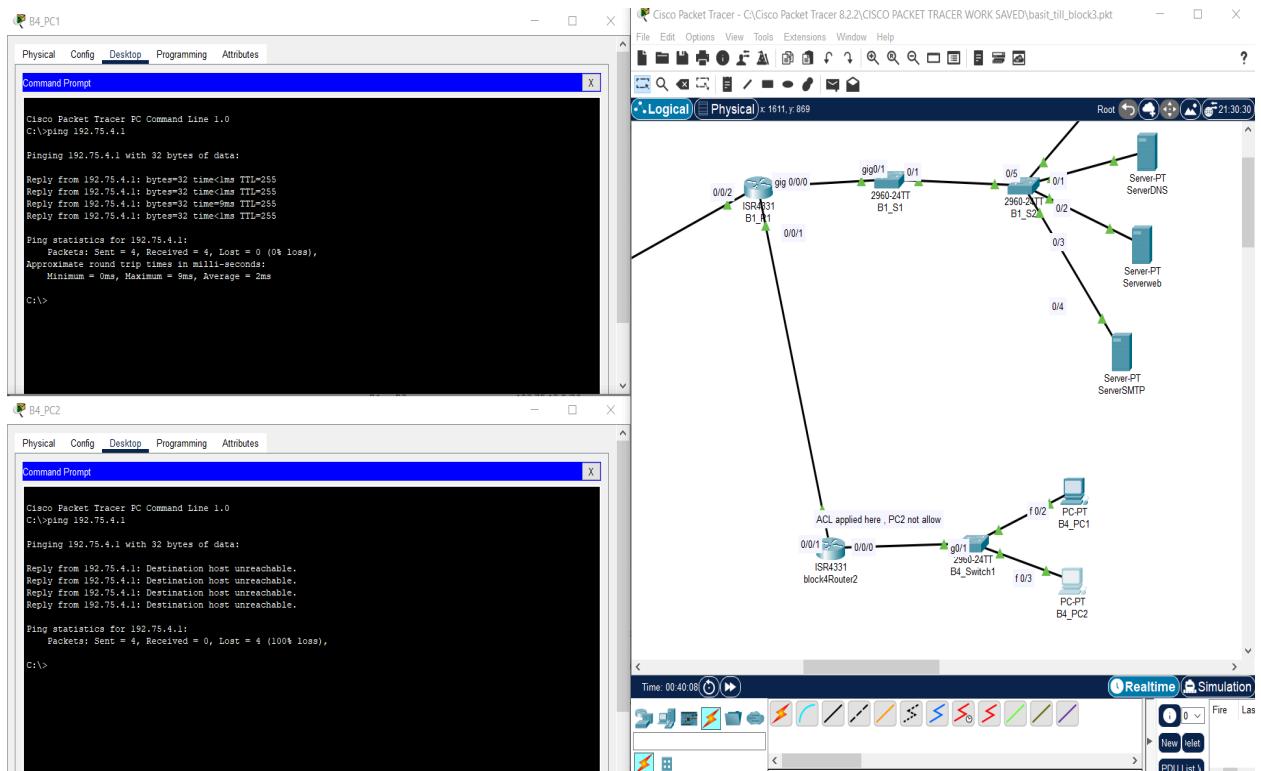
STEP 4 (BLOCK 4):

B4_PC2 not allowed



Confirmation:

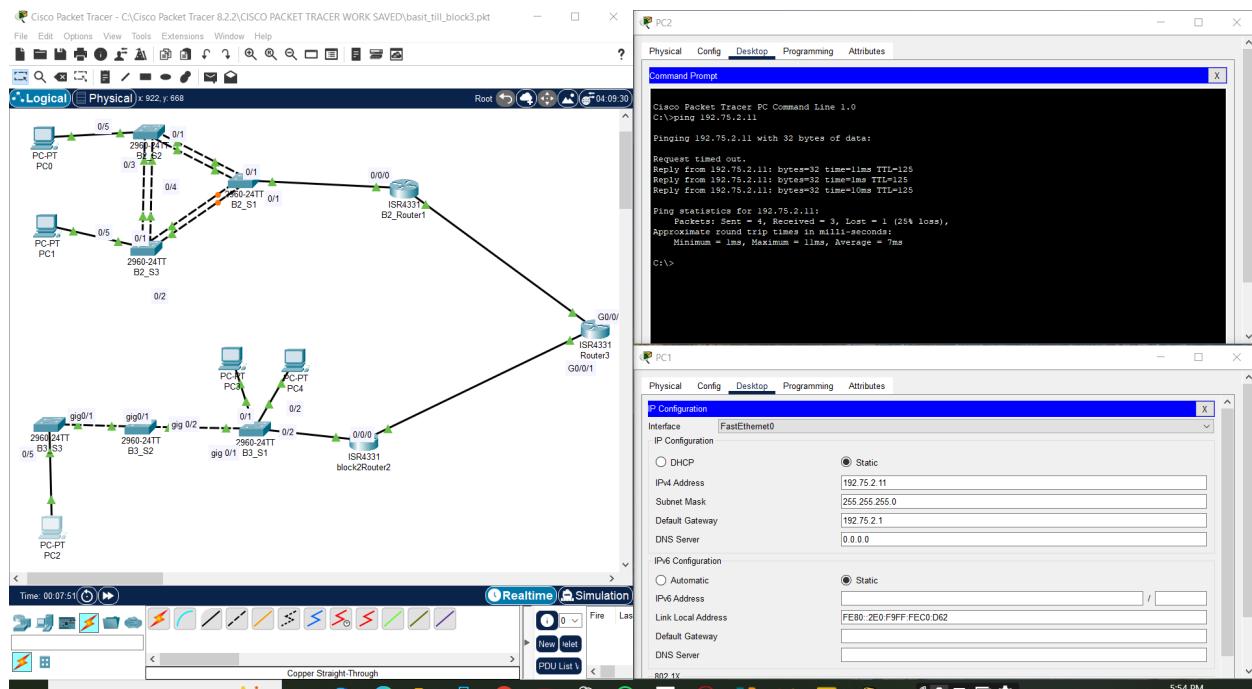
IP address of block4Router2 at G0/0/0 is 192.75.4.1



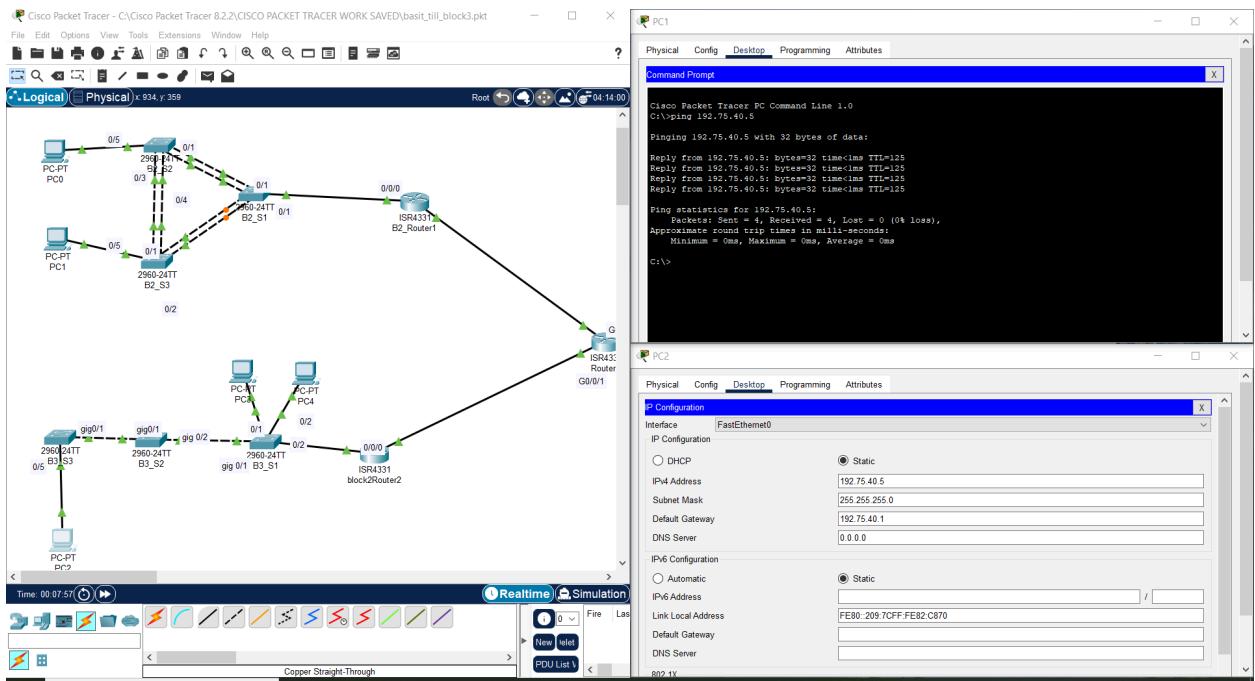
Step 5:

RIP Configuration:

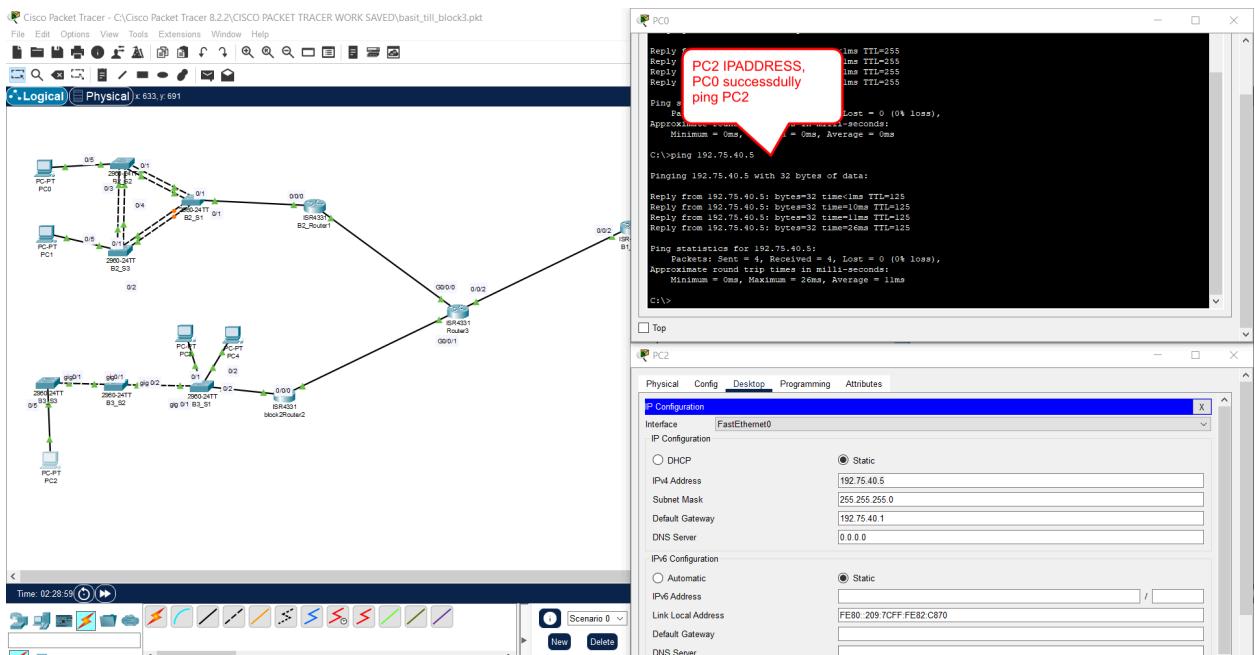
PC2 at block 3 ping successfully with PC1 at block 2



and vice versa



PING between PC 0 and PC 2

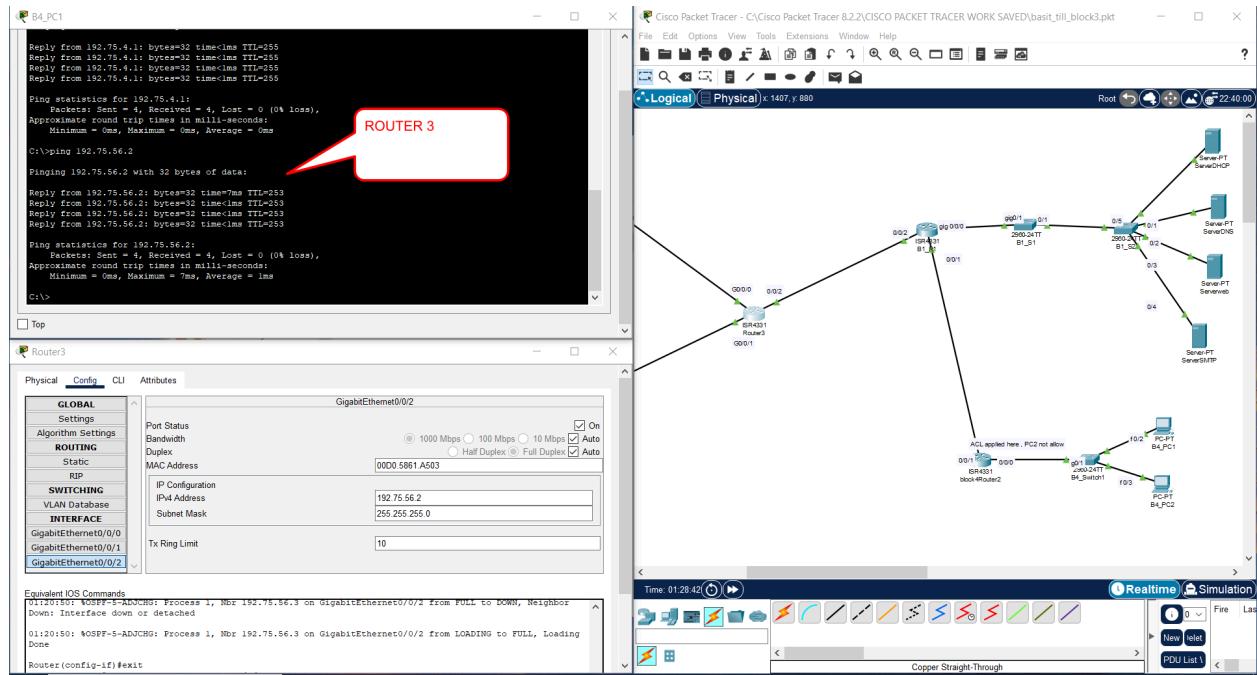


STEP 6:

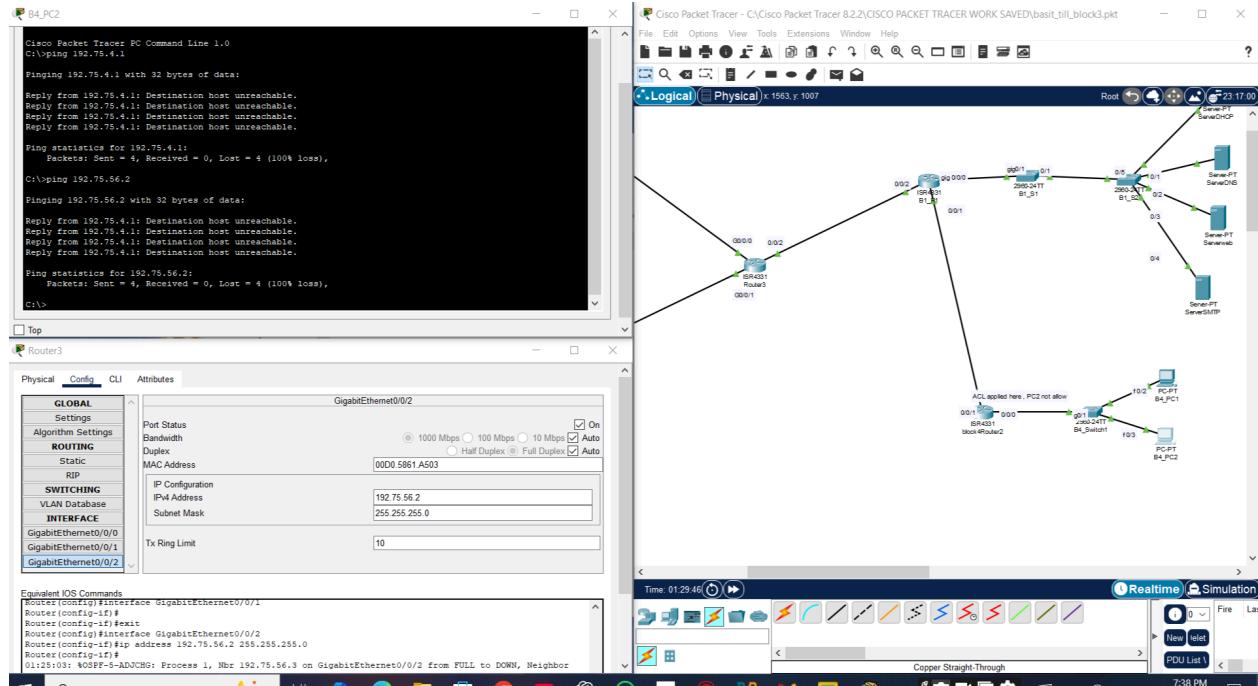
OSPF Configuration:

B4_PC1 is successfully ping with router3 (Middle router) because of OSPF

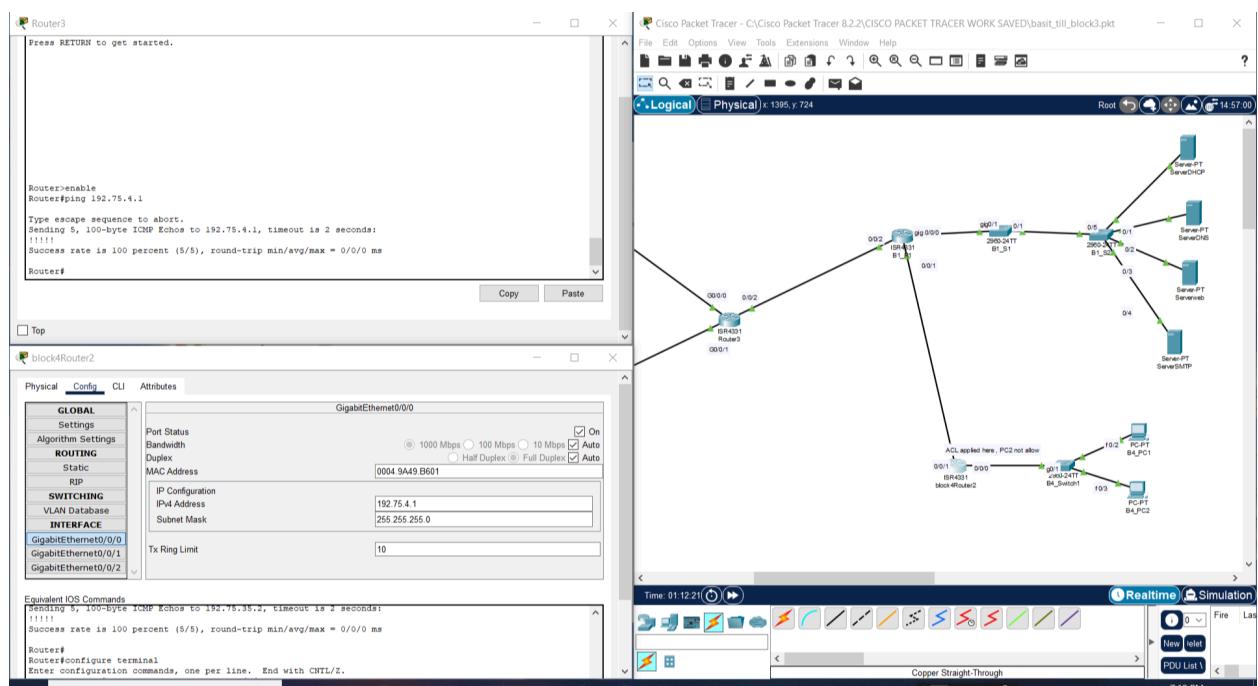
Configuration



BUT if we so with B4_PC2 then ACL applied

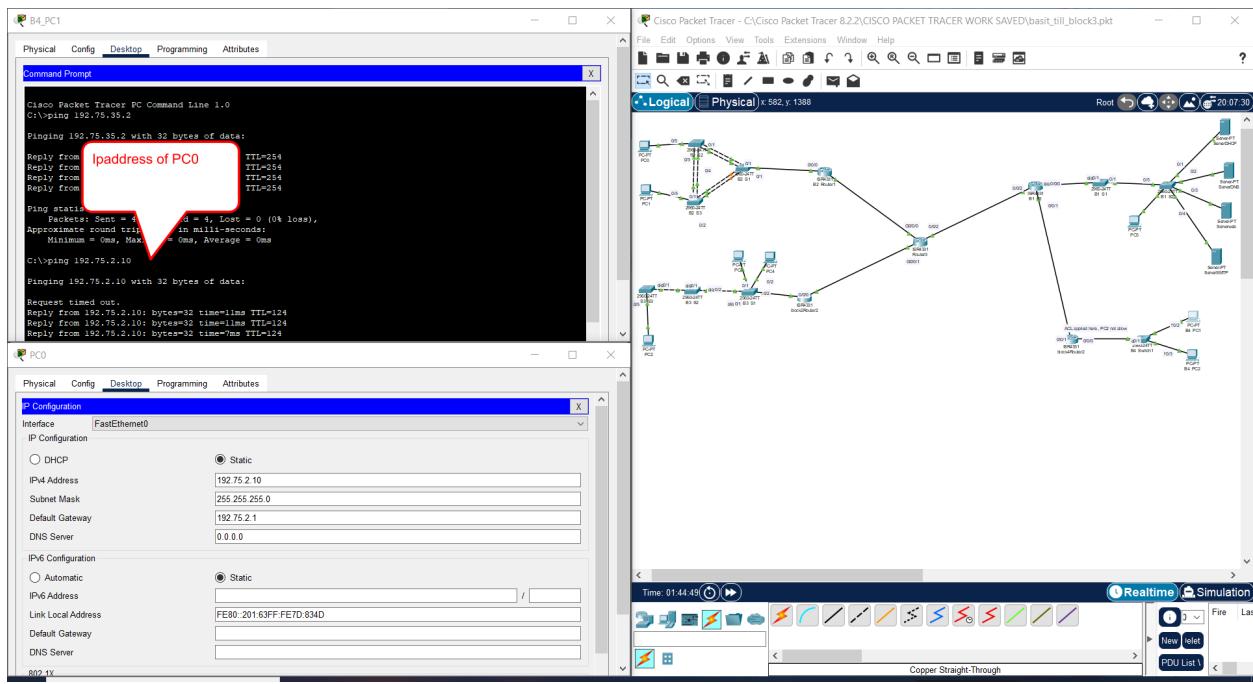


Now Pinging between router3 and block4Router2



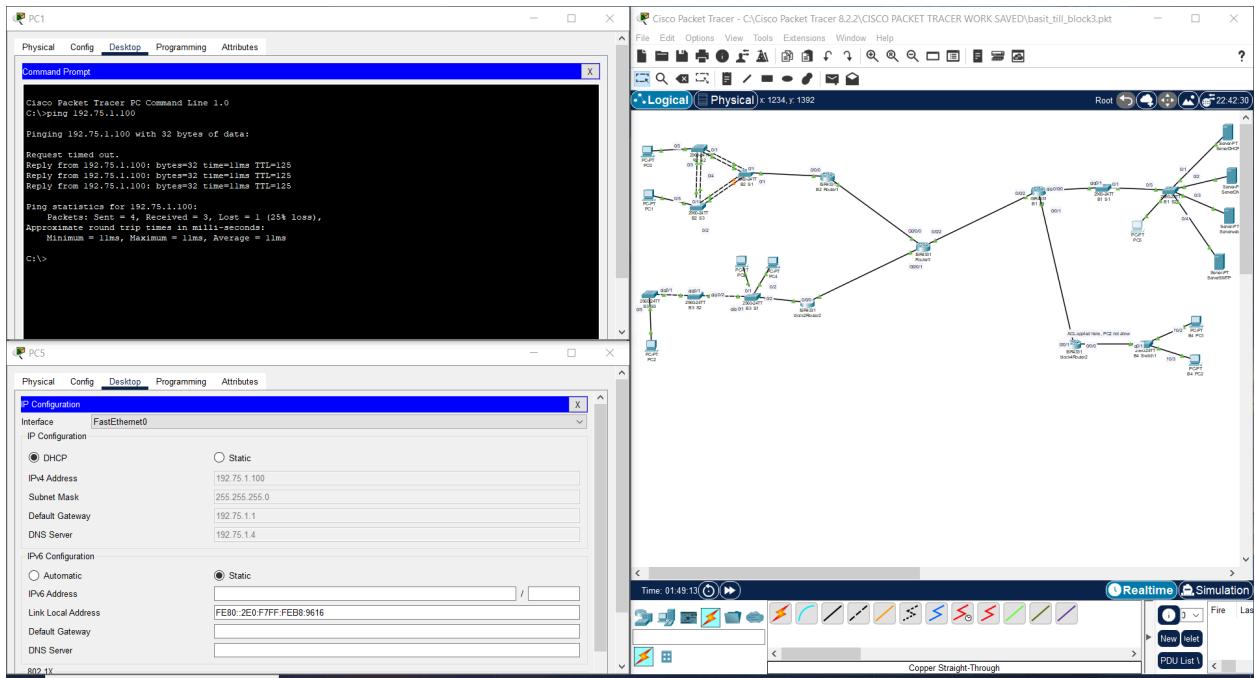
STEP7:

B4PC1 at block 4 have (OSPF) configuration connected with PC0 at Block 2 (RIP) Configured because of RIP-OSPF Distribution



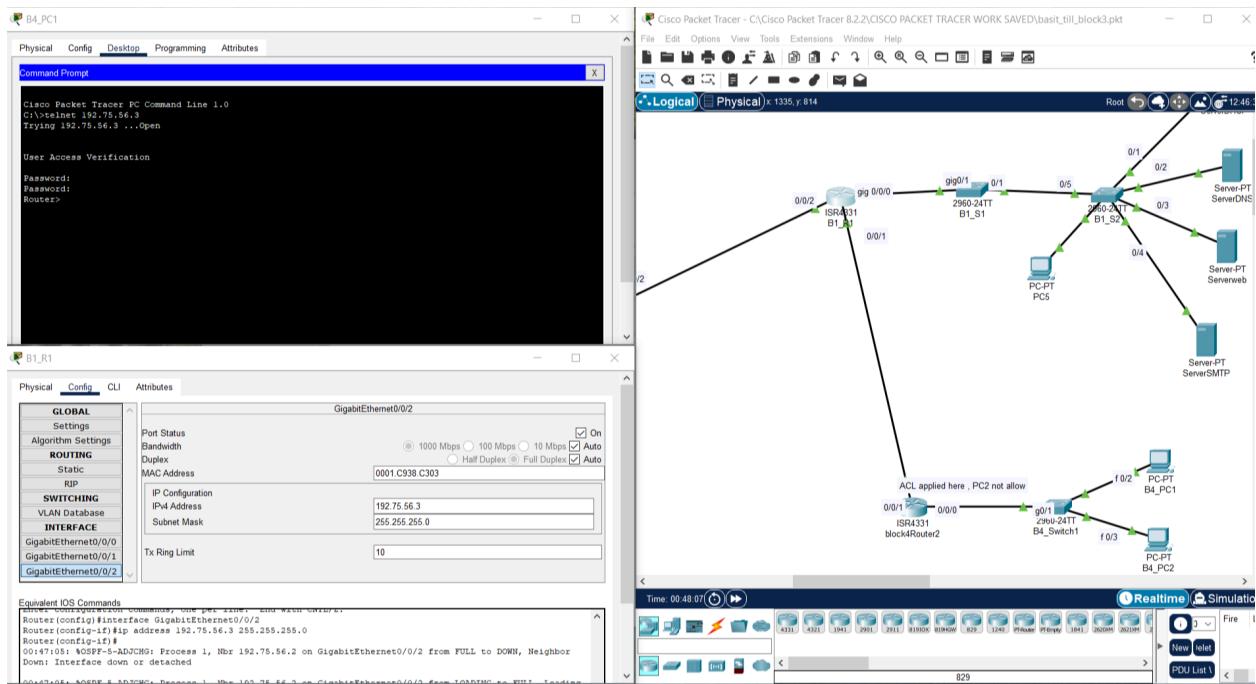
NOW PC5 at block 1 is successfully ping with PC 1 at Block 2

RIP-OSPF Distribution:

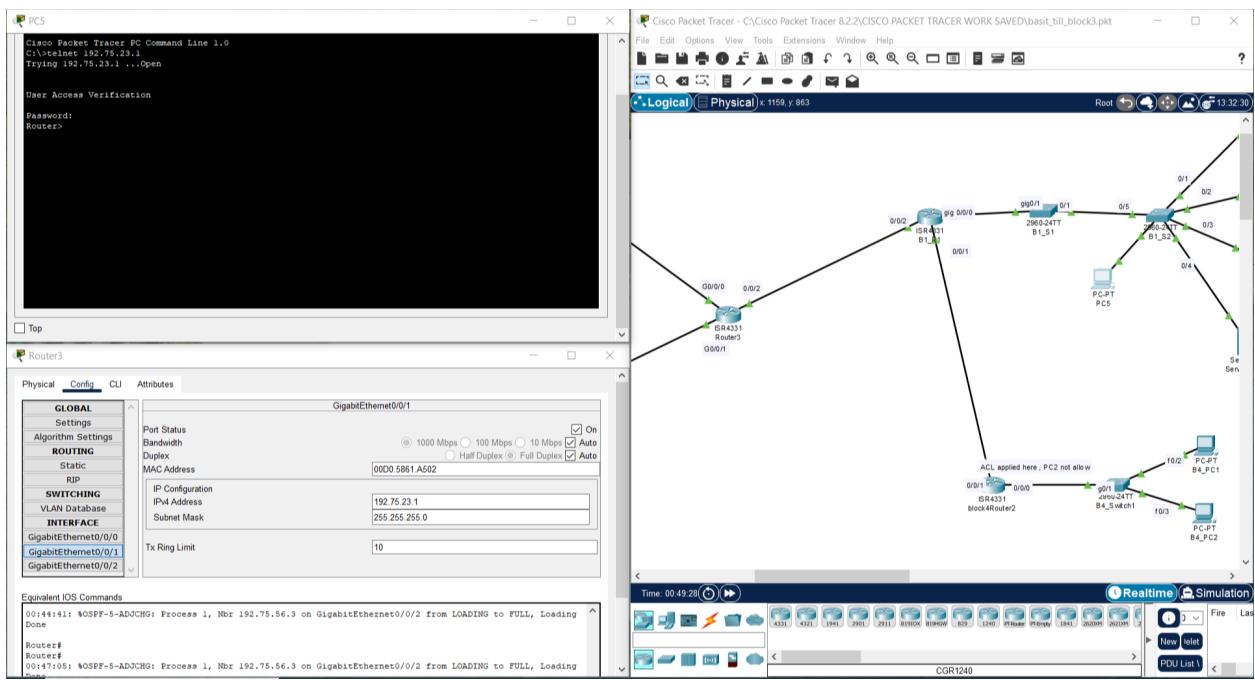


STEP 8:

B4_PC1 in 4th block should be able to Telnet into **B1_R1** in the network.



PC5 in 1st block should be able to Telnet into Middle (Router3) in network



FINAL PNG of Project Topology:

