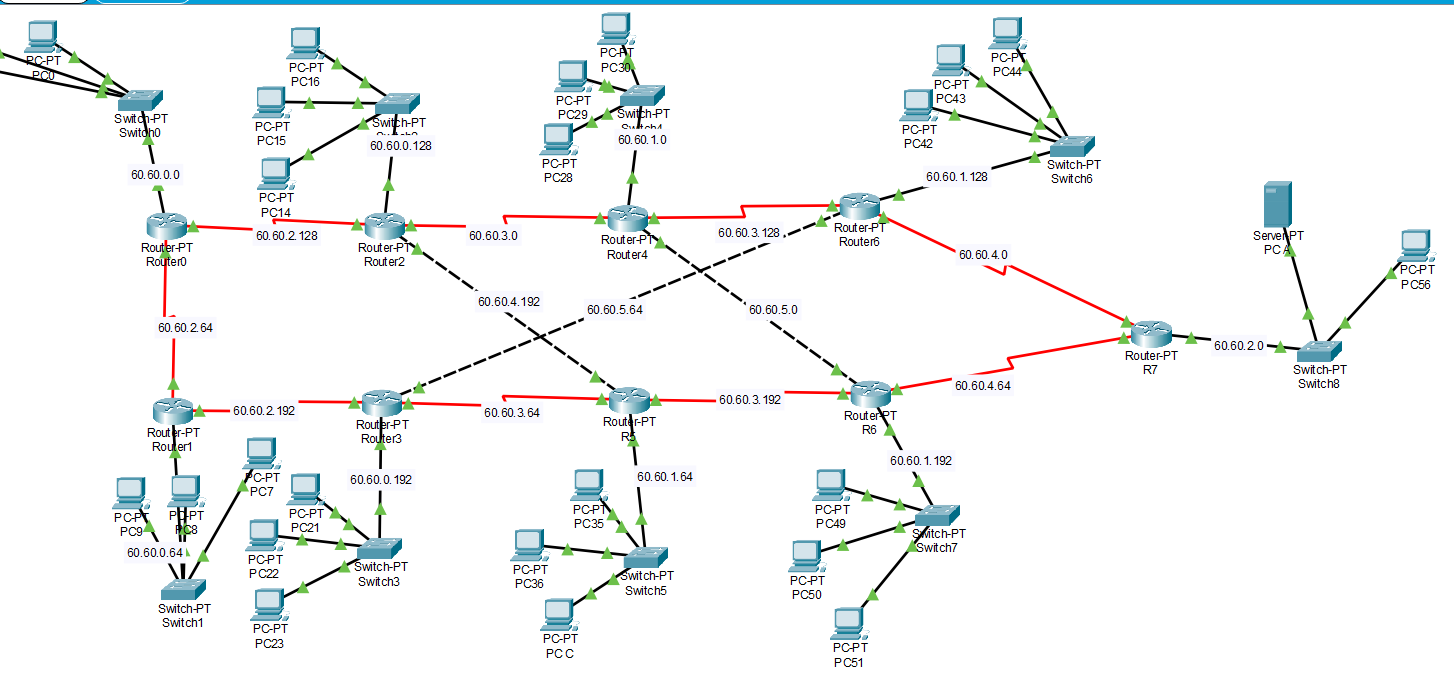
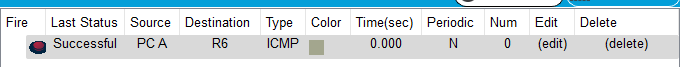
**Practical No. 4**

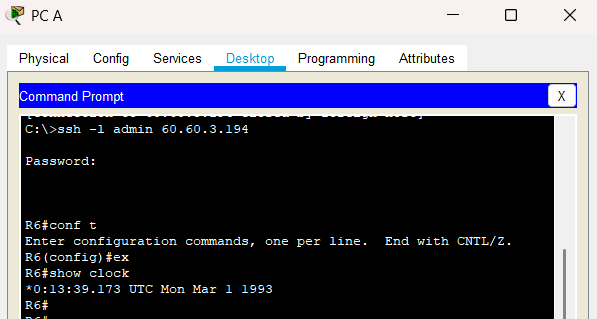
**Configure IP ACLs to Mitigate Attacks**



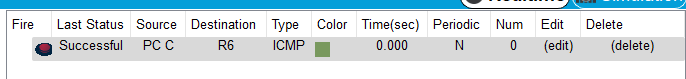
**Part1:Verify Basic Network Connectivity**

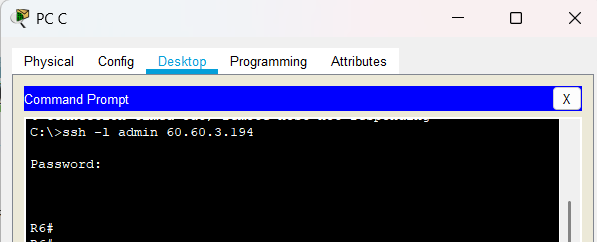
From PC-A, verify connectivity to PC-C and R6





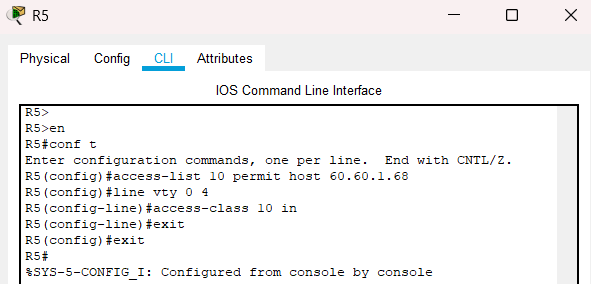
From PC-C, verify connectivity to PC-A and R6

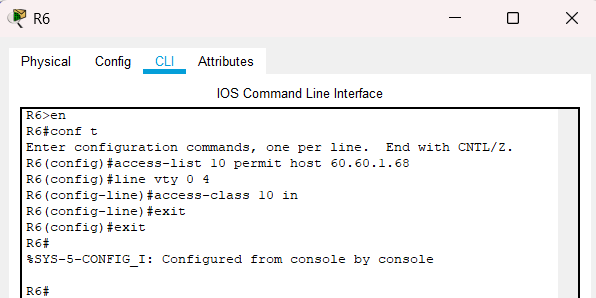


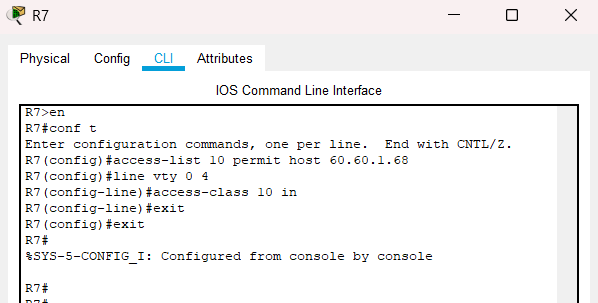


**Part 2: Secure Access to Routers**

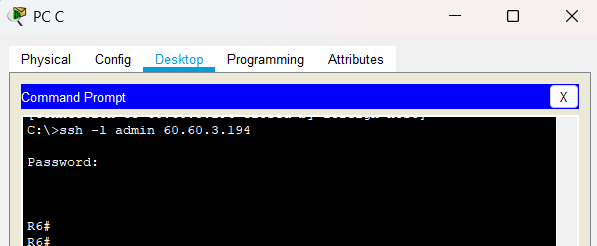
Configure ACL 10 to block all remote access to the routers except from PC-C

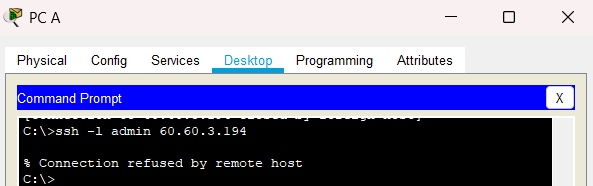
And Apply ACL 10 to ingress traffic on the VTY lines. **.**





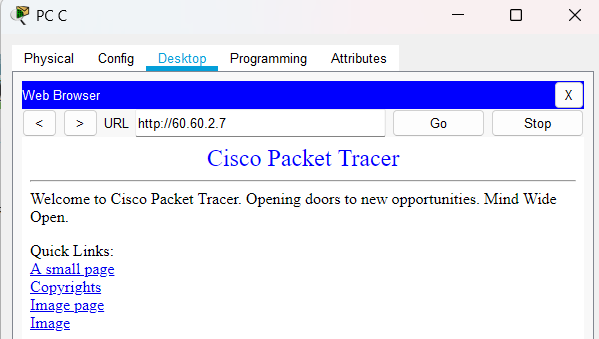
Verify exclusive access from management station PC-C.



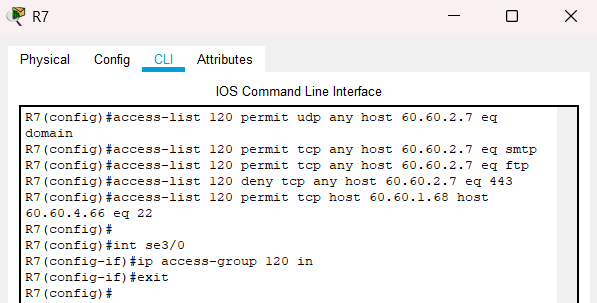


**Part 3: Create a Numbered IP ACL 120 on R7**

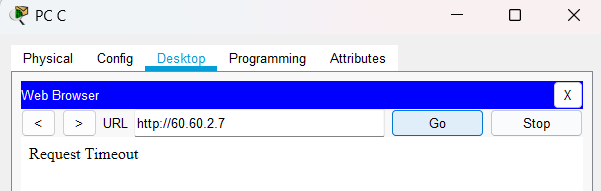
Verify that PC-C can access the PC-A via HTTPS using the web browser.



Configure ACL 120 to specifically permit and deny the specified traffic And Apply the ACL to interface S3/0

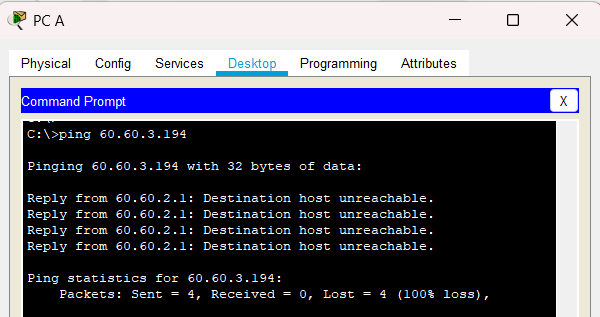


Verify that PC-C cannot access PC-A via HTTPS using the web browser

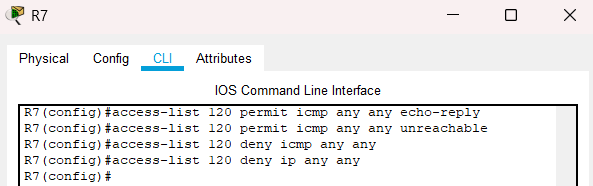


**Part 4: Modify an Existing ACL on R7**

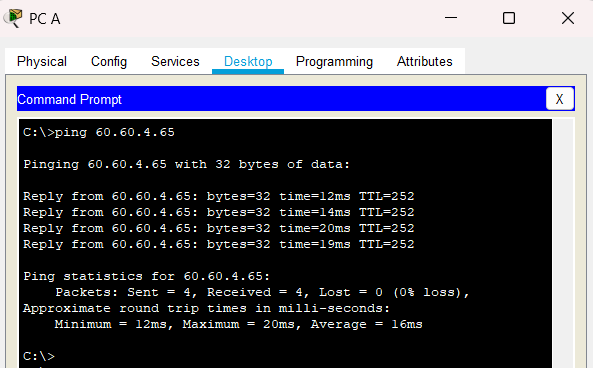
Verify that PC-A cannot successfully ping the loopback interface on R6



Make any necessary changes to ACL 120 to permit and deny the specified traffic.

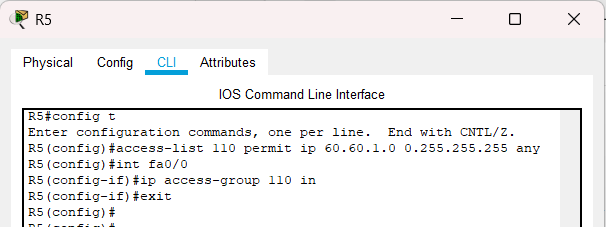


Verify that PC-A can successfully ping the loopback interface on R6



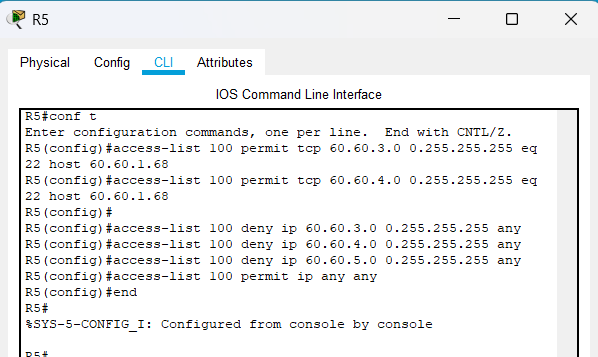
**Part 5: Create a Numbered IP ACL 110 on R5**

Configure ACL 110 to permit only traffic from the inside network And Apply the ACL to interface fa0/0.

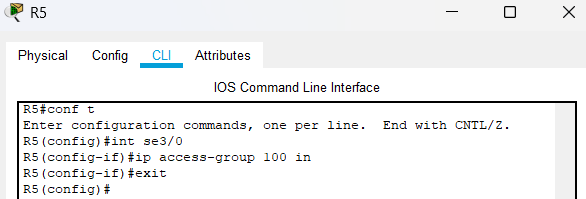


**Part 6: Create a Numbered IP ACL 100 on R5**

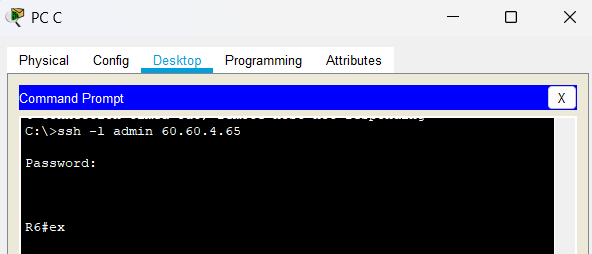
Configure ACL 100 to block all specified traffic from the outside network.



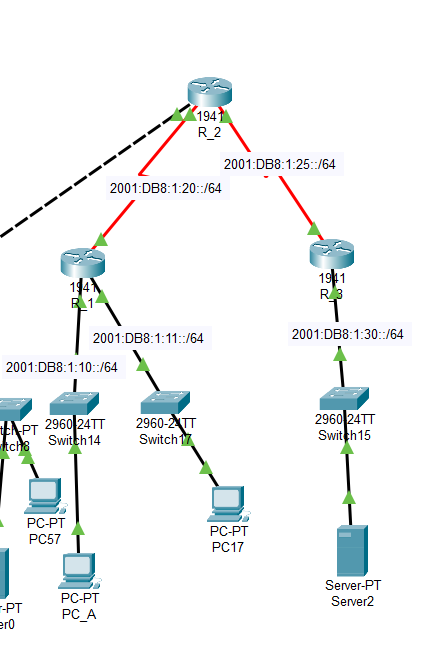
Apply the ACL to interface Serial 3/0



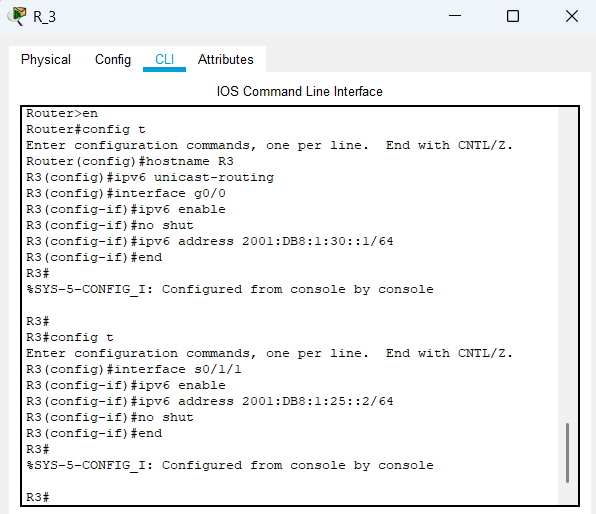
Confirm that the specified traffic entering interface Serial 3/0 is handled correctly

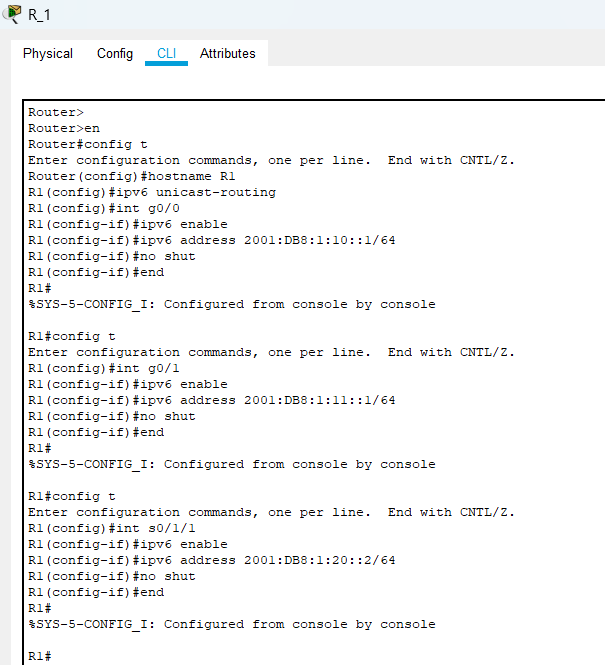


**IPV6 ACLs**

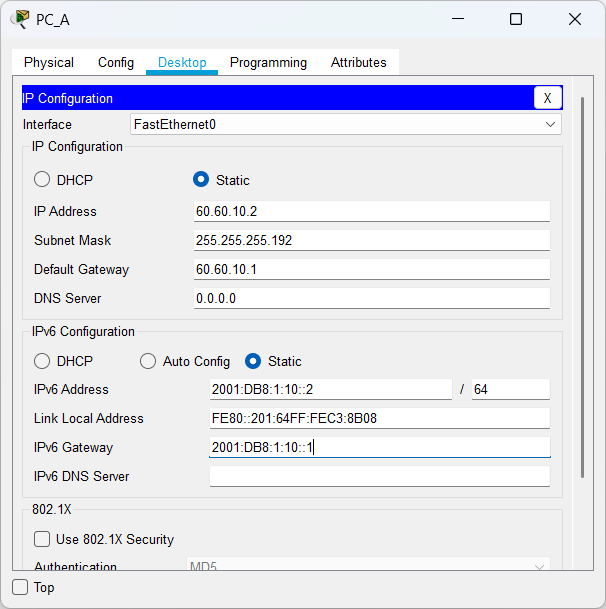


Setup and Config address for interface

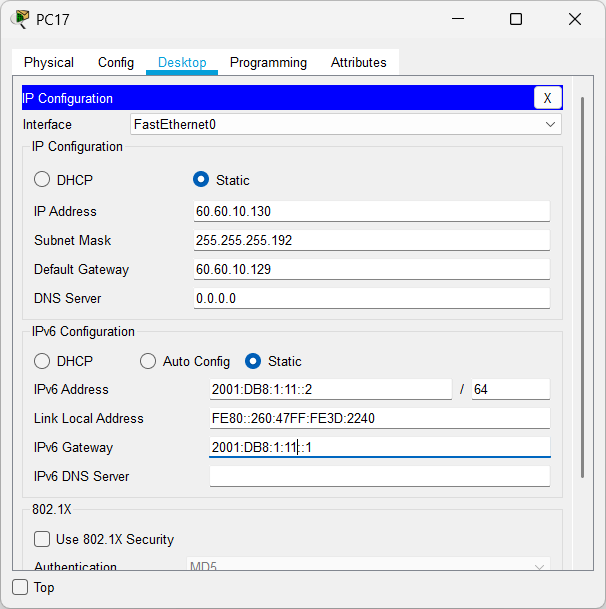


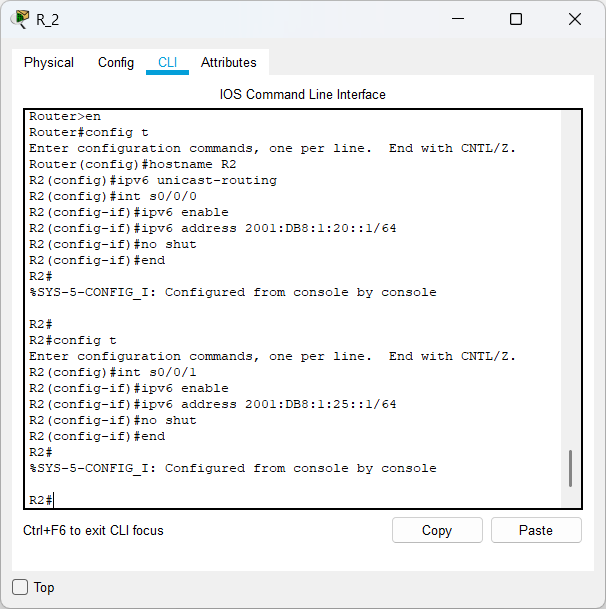


PC-A

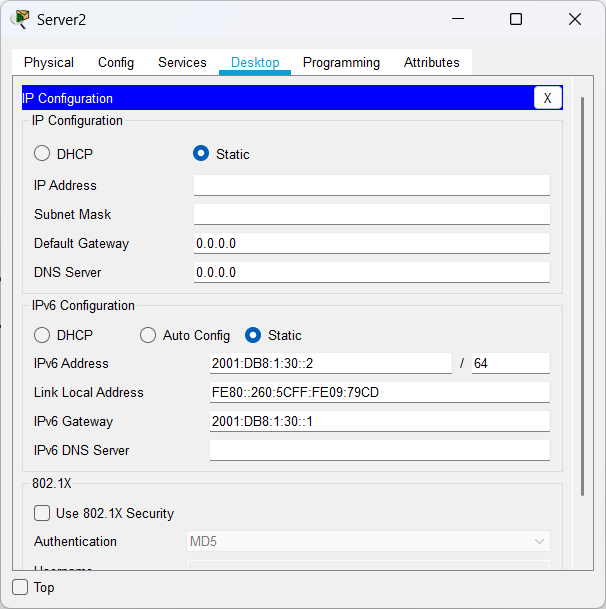


PC-17

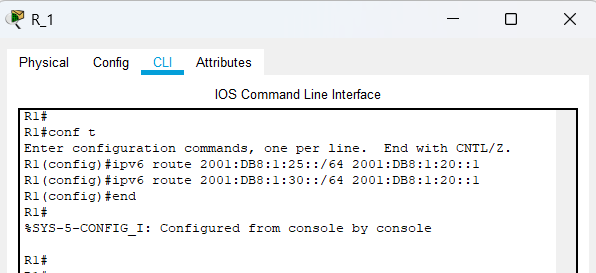


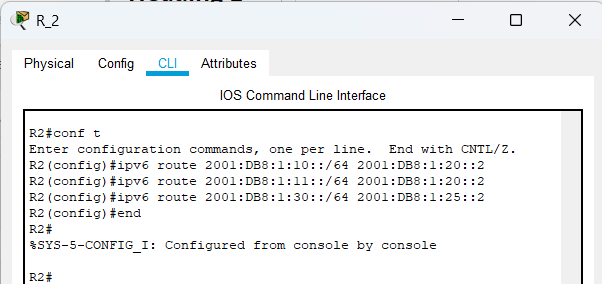


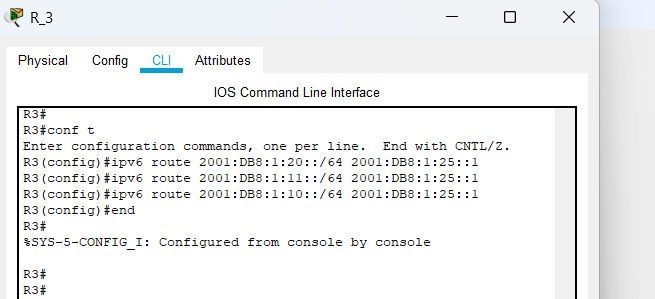
Server



Static Routing







Verify connectivity:

