

LAB ASSESSMENT-2

SLOT: L49-L50

CSE 3502: INFORMATION SECURITY MANAGEMENT

Submitted By: Submitted to:

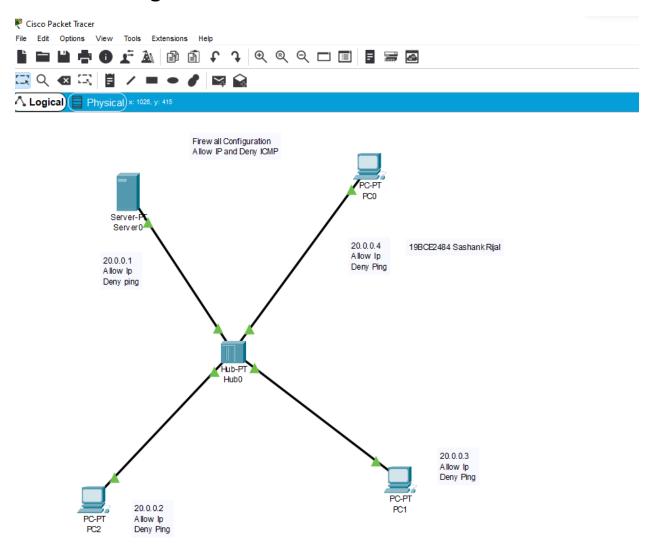
Sashank Rijal Vimala Devi K.

19BCE2484

Experiment 1 Firewall Configuration:

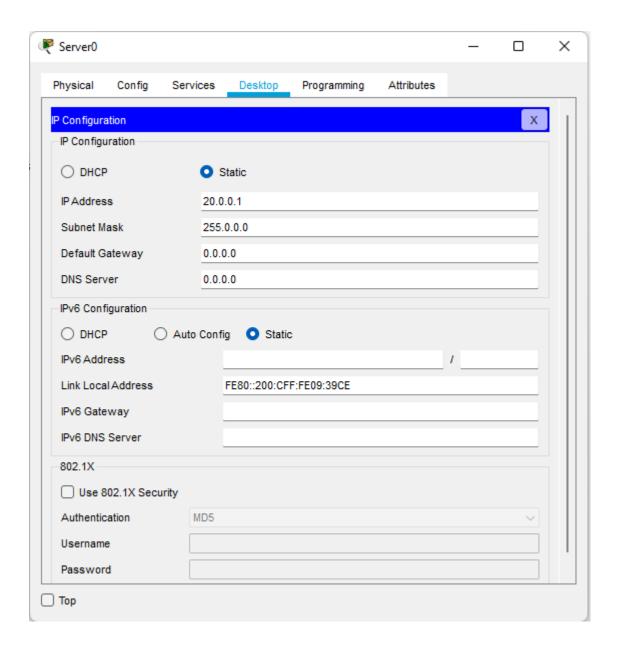
	Sashonik Rijal
1	Lab Assessment 2
	Experiment 1: Firewall Configuration
	Aim!
	The aim of the experiment is to configure alirewall
	The aim of the experiment is to configure affirewall in a network to allow only specific packets to pass through
	Procedure:
(i	Configure the Server It out yess as: 20.0.0.1
ii)	Turn DMCP and HTTTP con' from the services tab.
iii)	Open eng every pc and open It Configuration. Select 'Drick'. Each Pc will be a ssigned on It address. dynamically
iv)_	Under 'Destitop tob in Benner , Belect FPv4 frewall' and turn Service on'
lν	For allowing I Part denying ICMP, under action' select 'Allow' and under protocol, select 'IP'. (nive remote IP as 0.0.0.0 & remote mark (with cond) as
	255-255.255.265. Then click on Save and 'add'. Similarly select 'Deny' under Action and 'Icmp' under protocol then click Sour and add'.
vi)	for a Howing Itml and denying IP, Indian similar step as (v). White action select 'Allow' and protocol 'Icml'. Then click' Saw & add' similar select 'Deny' index action on IP' under protocol and click saw & as

Network Design:

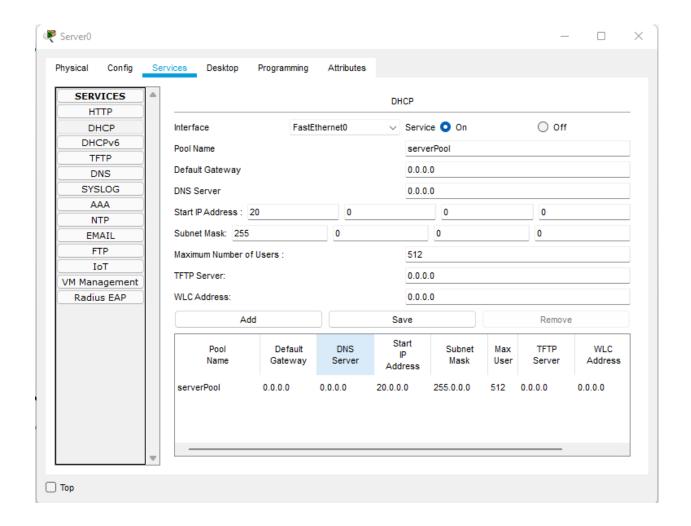


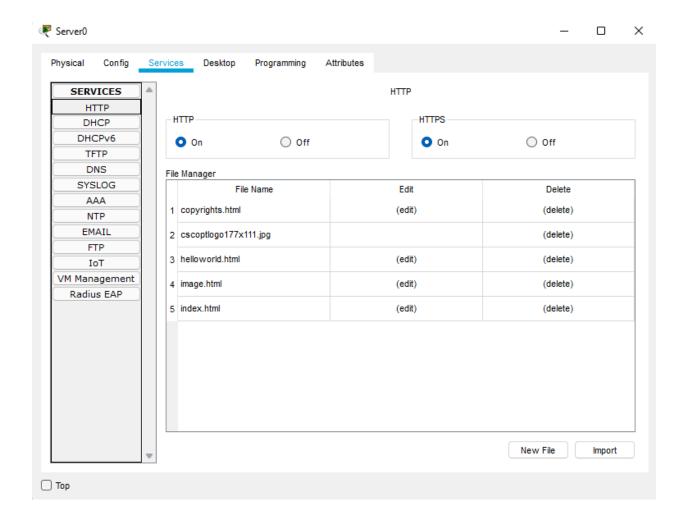


Configuring Server:

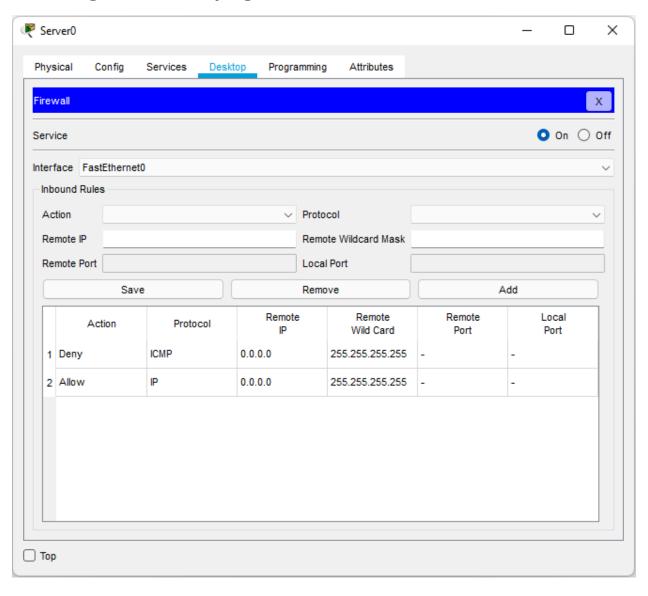


Enabling DHCP and HTTP:

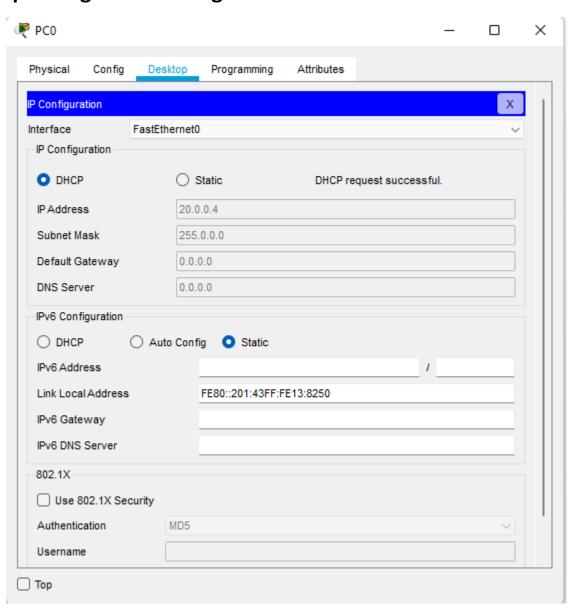


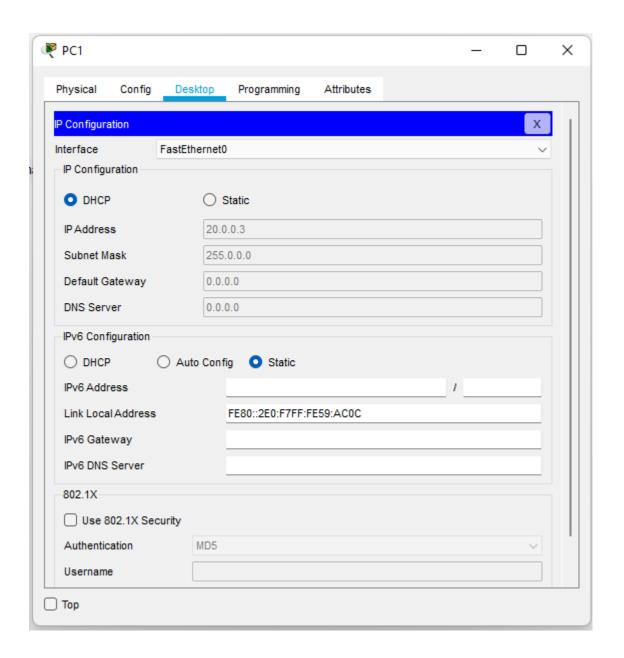


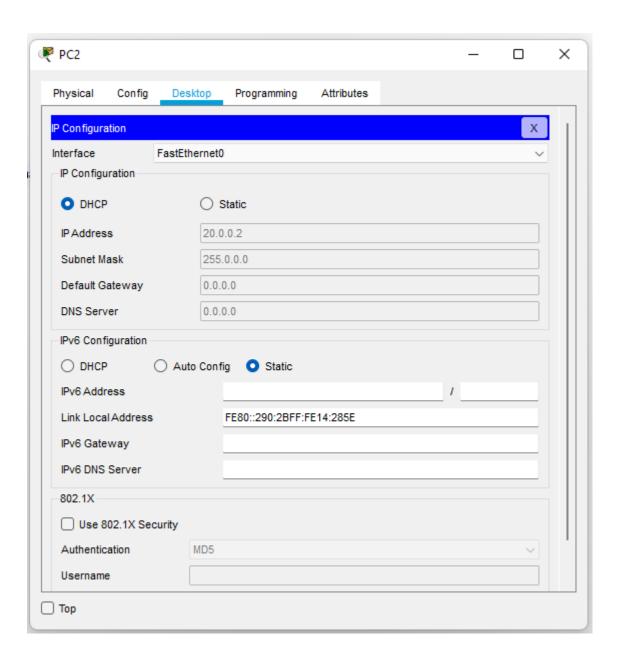
Allowing IP and Denying ICMP:



Ip configuration using DHCP:



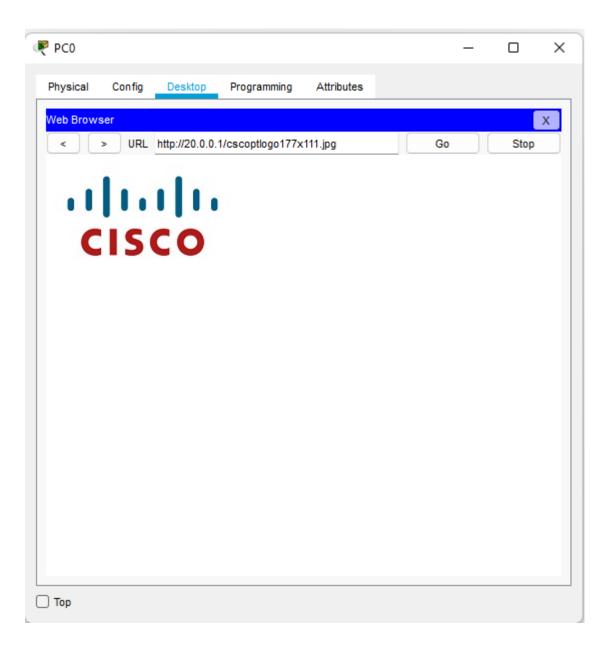




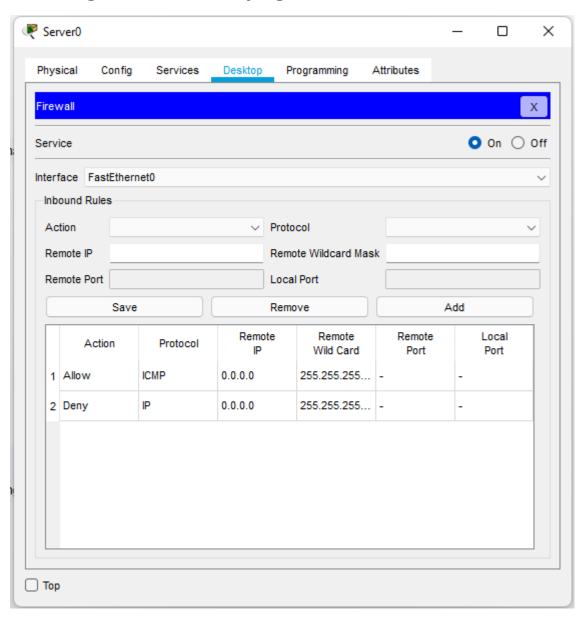
Denying ICMP:

```
№ PC0
                                                              _ _
                                                                           Х
  Physical
           Config
                   Desktop
                                        Attributes
                            Programming
                                                                        Х
  Command Prompt
       Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),
   Control-C
   ^C
   C:\>ping 20.0.0.1
   Pinging 20.0.0.1 with 32 bytes of data:
   Request timed out.
   Request timed out.
   Request timed out.
   Request timed out.
   Ping statistics for 20.0.0.1:
       Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
   C:\>ping 20.0.0.1
   Pinging 20.0.0.1 with 32 bytes of data:
   Request timed out.
   Request timed out.
   Request timed out.
   Request timed out.
   Ping statistics for 20.0.0.1:
       Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
   C:\>
   C:\>
   C:\>
 Top
```

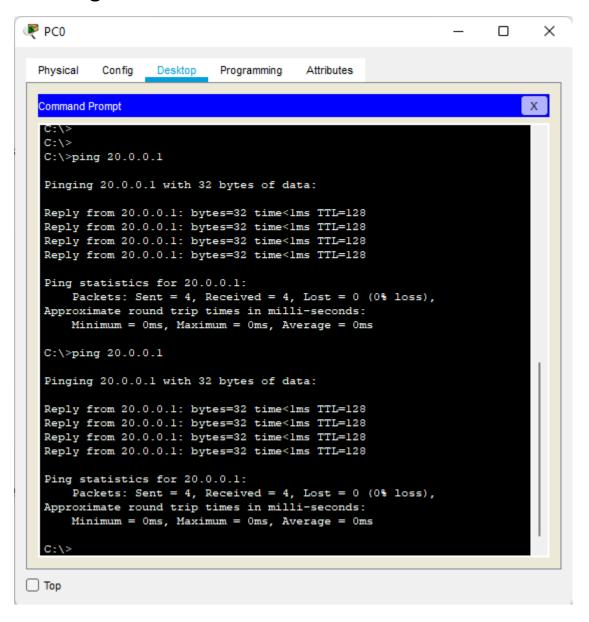
Allowing IP:



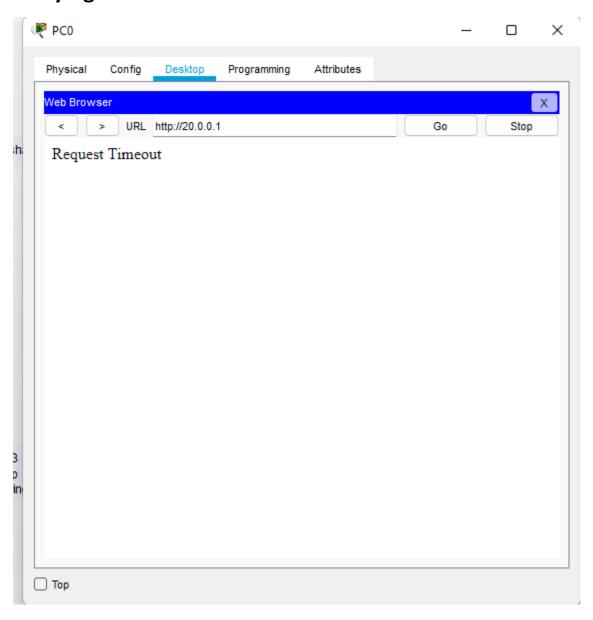
Allowing ICMP and Denying IP:



Allowing ICMP:



Denying IP:



Experiment 2 Implementing Access Control lists:

	IGBCE2484 Sashank Rijaz
	Experiment 2: Implementing Access control lists.
	Aim:
	The aim of the experiment is to imprement access control 1:5ts
	to allow and deny certain devices to access data packets.
	Proceduse:
i)	Pc configuration:
	PCO: 192.168.10.1
	PC1: 192.168.10.2
	PC3: 192.168.10.3
	The galeury is configured in the next skp.
ii)	Router configuration:
	Router Zenable
	Router# config t
	Raxer (config) # interface (rig old
	Router (config-if)# ip address 192-188-10.10 255-255.785.
	Parter (config-if) # no shut
_	Revier (config-if) # exit
	Rater Coonlight interface Gig 0/1
	haver (configit)# ip address 10.10.10.10 255.0.0.0
	factor (configit) # Moshot
	Parter (configure) # exit

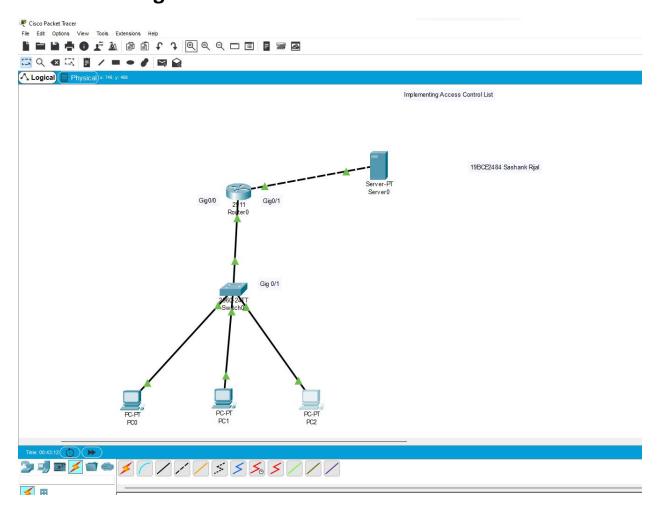
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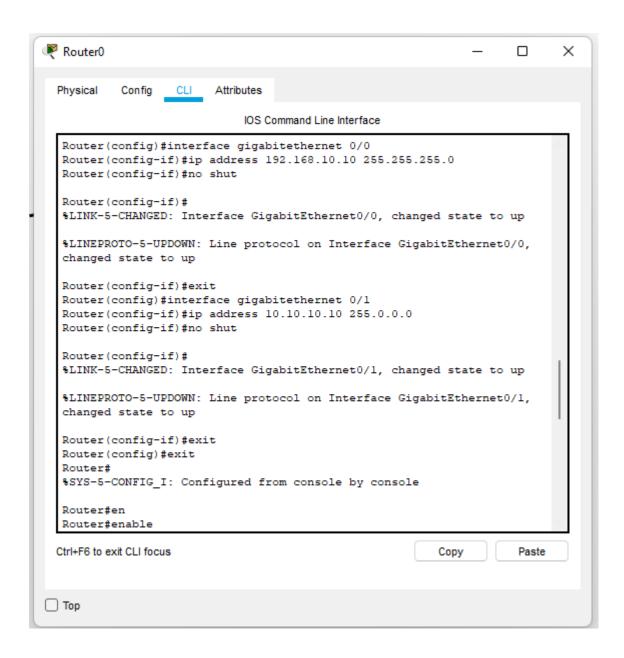
L

(¼i	Configure Access control list:
	Rowher (remove) # in access-list standard 1)
	Rowber (configs-std-nacl) # deny host 192168.10.2
	Router (config -std-nacl) # permit any
	Rower (config - stal moci) # exit
	Power (confra) # interface (x1g 010
	Power (config-it) # ip access-group 11 in
	Rousen (config-if) # exit
	Rower (config) # exit
	No. of the second second
(vi	We can now check the configured access list via
	# Crow accest-lists in the rouser CLI.
	1

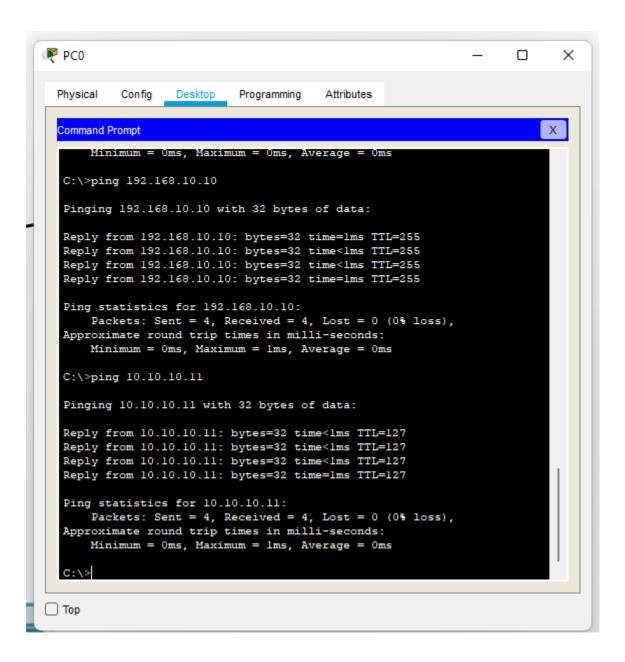
Network Design:

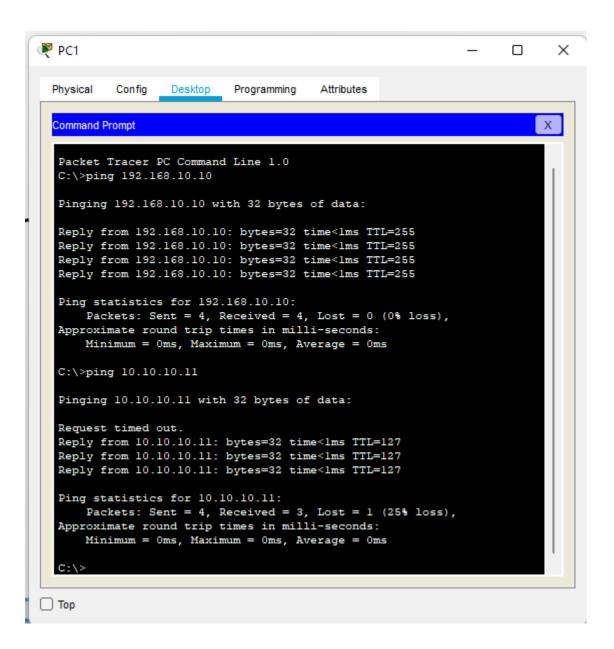


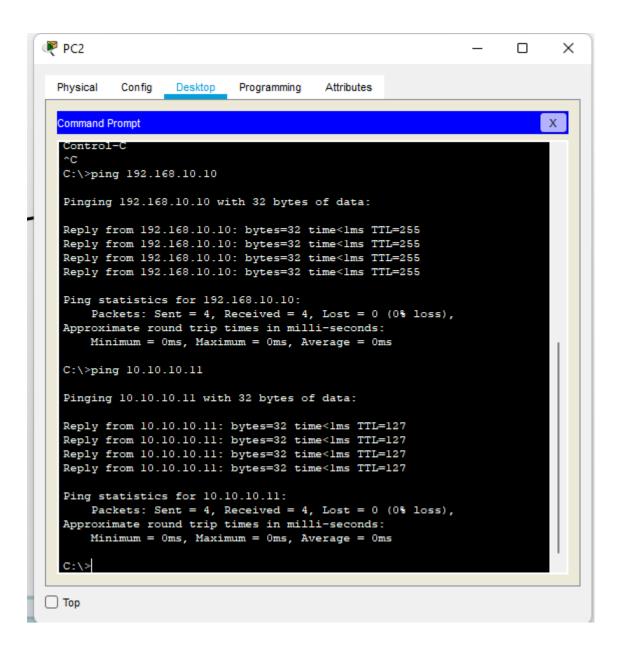
Configuring the Router:



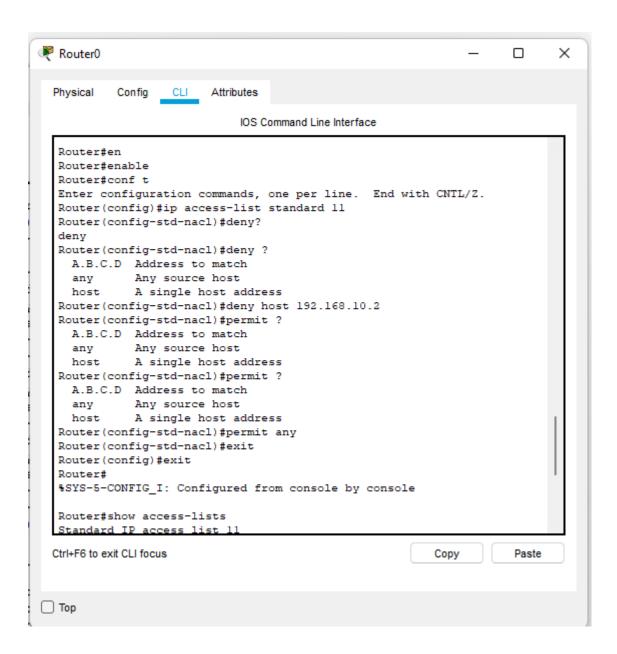
Pinging PC0 PC1 AND PC2:

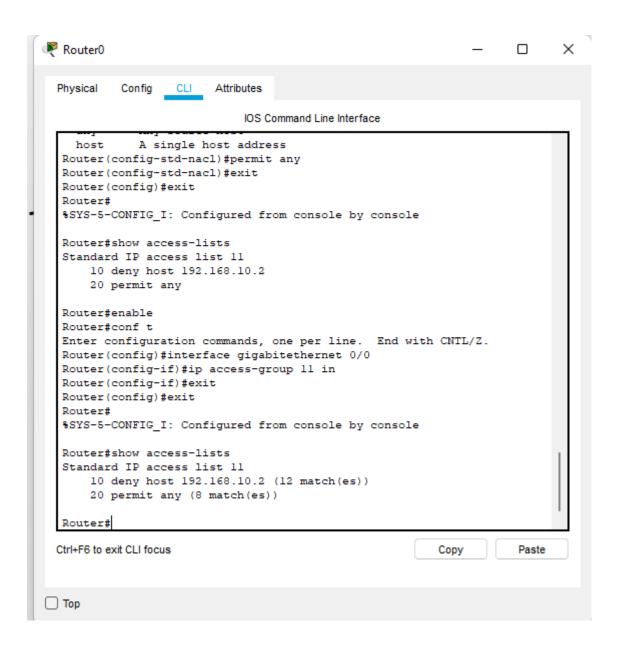




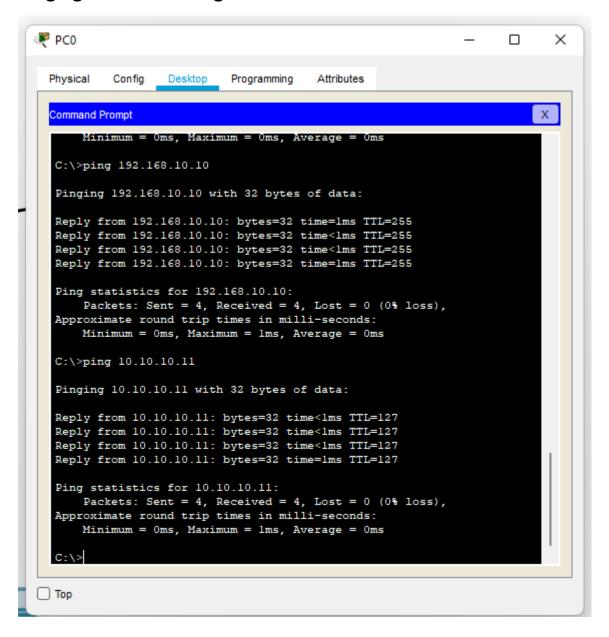


Configuring Access control list (Standard 11)





Pinging PC after setting access control list:



This PC (PC1) was denied therefore does not receive any reply:

