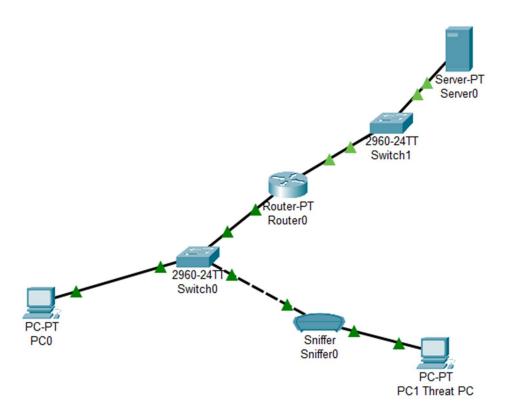
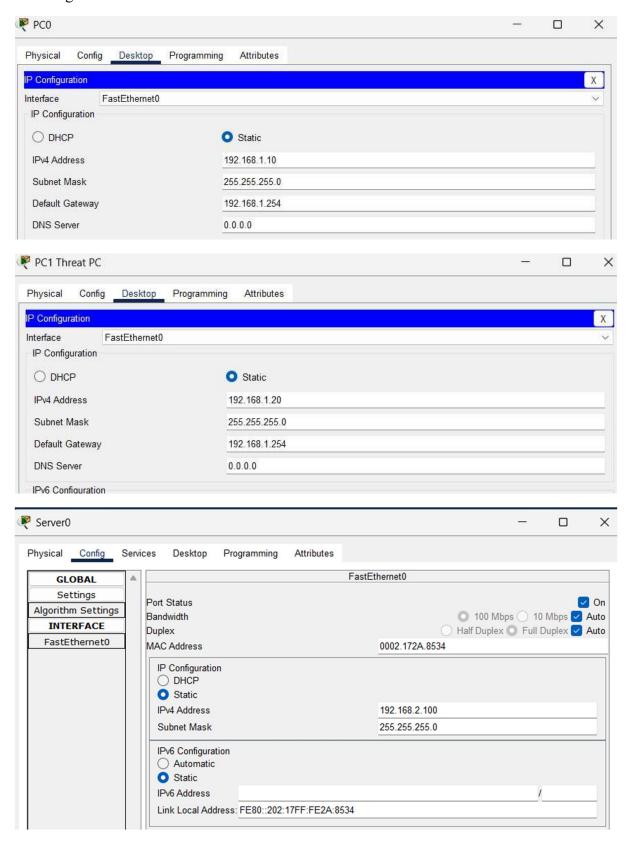
LINUX NETWORKING MODULE 5 ASSESSMENT SOLUTION

-BY SAKTHI KUMAR S

2) Using Packet Tracer, simulate an ARP spoofing attack. Analyze the behavior of devices on the network when they receive a malicious ARP response.



IP configurations:



Ping and ARP table before MAC change:

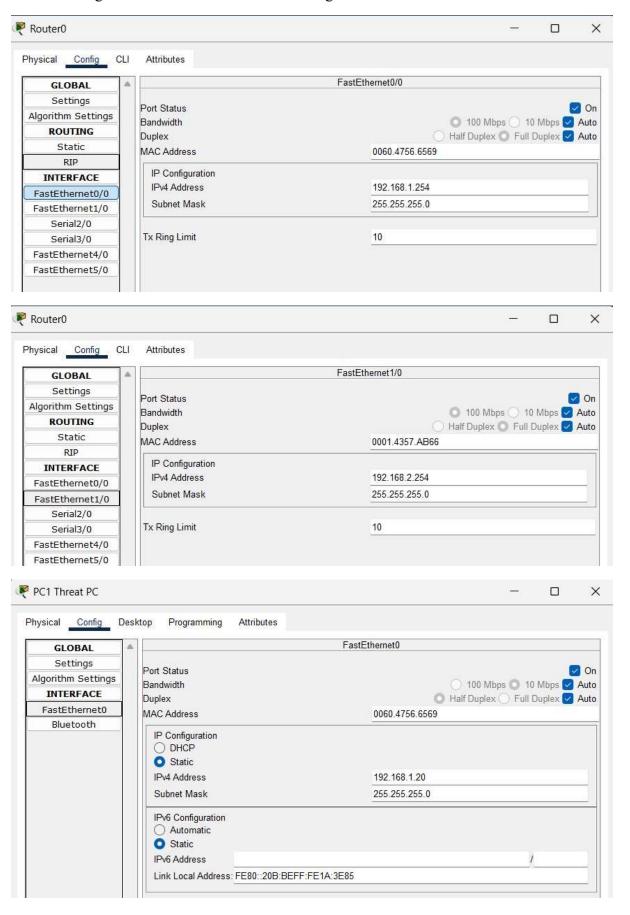


```
Physical
         Config
                 Desktop
                          Programming
                                      Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Request timed out.
Reply from 192.168.2.100: bytes=32 time=1ms TTL=127
Reply from 192.168.2.100: bytes=32 time<1ms TTL=127
Reply from 192.168.2.100: bytes=32 time=1ms TTL=127
Ping statistics for 192.168.2.100:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = 1ms, Average = Oms
C:\>ping 192.168.2.100
Pinging 192.168.2.100 with 32 bytes of data:
Reply from 192.168.2.100: bytes=32 time<1ms TTL=127
Ping statistics for 192.168.2.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>arp -a
  Internet Address
                        Physical Address
                                               Type
  192.168.1.254
                         0060.4756.6569
                                               dynamic
```

ARP Table for Router0

IP Address	Hardware Address	Interface
192.168.1.10	0060.5C23.9C47	FastEthernet0/0
192.168.1.254	0060.4756.6569	FastEthernet0/0
192.168.2.100	0002.172A.8534	FastEthernet1/0
192.168.2.254	0001.4357.AB66	FastEthernet1/0

Router Configurations and Threat PC MAC change:



ARP Table after MAC change:

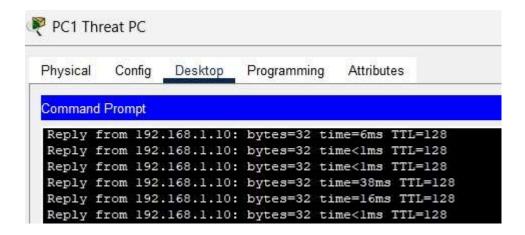
MAC Address Table:

```
Switch>enable
Switch#
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #interface FastEthernet0/6
Switch(config-if) # exit
Switch (config) #exit
Switch#
%SYS-5-CONFIG I: Configured from console by console
Switch#en
Switch#show mac add
        Mac Address Table
_____
Vlan
      Mac Address
                       Type
                                Ports
       _____
      000b.bela.3e85 DYNAMIC
                                  Fa0/2
  1
      0060.4756.6569 DYNAMIC
  1
                                Fa0/2
  1
       0060.5c23.9c47 DYNAMIC
                                  Fa0/1
Switch#
```

PC web browser to server connection before flooding with Threat PC Ping



PC web browser to server connection After flooding with Threat PC Ping





Packet sniffing near Threat PC to ensure spoofing is simulated by knowing the Packet flow between the Victim PC to server

