Assignment

Network Systems Assignment

OBJECTIVE:

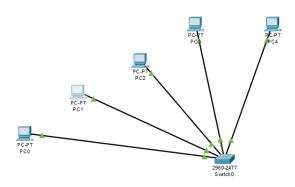
Configure a LAN network with 5 PCs using the network address "192.168.16.0". The network should be configured to block ping (ICMP) requests, but still allow all PCs to communicate with each other using their IP addresses.

Attach all screenshots (including IP configuration, Firewall configuration, Ping output, Web browser output, Network structure) along with a description in a PDF file and submit.

What is Firewall

A firewall is a network security device that monitors and controls network traffic based on a predefined set of security rules.

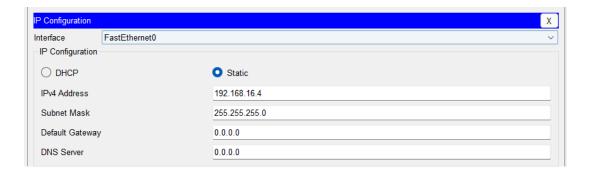
Basic Network Connection



Components Used -

PC - x5 Switch - x1 - 2960

IP configuration of PC's



Pinging between PC's before setting up the firewall.

From PC1 → ping PC4 → ping reply

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.16.4

Pinging 192.168.16.4 with 32 bytes of data:

Reply from 192.168.16.4: bytes=32 time<lms TTL=128

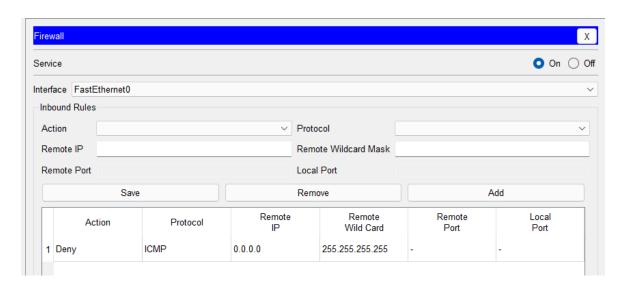
Ping statistics for 192.168.16.4:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = Oms, Average = Oms

C:\>
```

Setting up firewall in PC's



Pinging after setting up Firewall

From PC1 → ping PC2 → Request Timed Out

```
№ PC2
                                                                                                    X
          Config Desktop Programming
                                         Attributes
 Command Prompt
                                                                                                           Χ
 Cisco Packet Tracer PC Command Line 1.0 C:\>ping 192.168.16.2
  Pinging 192.168.16.2 with 32 bytes of data:
  Request timed out.
  Request timed out.
  Request timed out.
  Request timed out.
  Ping statistics for 192.168.16.2:
      Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
  C:\>
```

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