Lab - 2: GNS3 and Cisco Packet Tracer Documentation

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GNS3

Configuring Virtual PC:

```
# Terminal Commands to configure a Virtual PC:
ip 192.168.1.1/24 192.168.1.254 # <ip address>/24 <gateway address>

# To show configurations:
show ip
```

```
VPCS> ip 192,168,1,1/24 192,168,1,254
Checking for duplicate address...
PC1 : 192,168,1,1 255,255,255,0 gateway 192,168,1,254
VPCS> show ip
NAME
            : VPCS[1]
           : 192,168,1,1/24
IP/MASK
            : 192.168.1.254
GATEWAY
DNS
MAC
            : 00:50:79:66:68:00
LPORT
            : 10000
RHOST:PORT : 127.0.0.1:10001
            : 1500
MTU
VPCS>
```

Configuring Virtual Router:

```
# Terminal Commands to configure a Virtual Router:
> enable
# config t
# int f0/0
ip address 192.168.1.254 255.255.250
no shutdown
end
# To save all configurations:
# do wr
```

```
Router#
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int f0/0
Router(config-if)#ip address 192.168.1.254 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#do wr
Building configuration...
[OK]
Router(config-if)#end
Router#
*Mar 1 00:30:37.675: %SYS-5-CONFIG_I: Configured from console by console
Router#
```

Pinging a PC across a Router and Capturing:

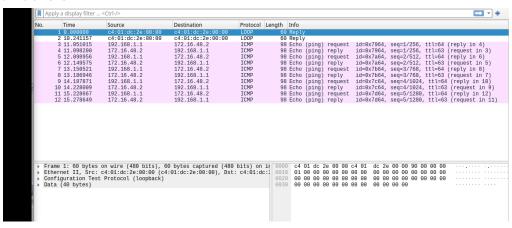
```
Trying ::1...
Connected to localhost.
Escape character is '^]'.

VPCS> ping 172.16.48.2 -c 5

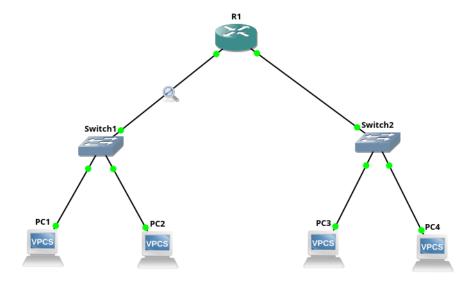
84 bytes from 172.16.48.2 icmp_seq=1 ttl=63 time=47.481 ms
84 bytes from 172.16.48.2 icmp_seq=2 ttl=63 time=50.890 ms
84 bytes from 172.16.48.2 icmp_seq=3 ttl=63 time=36.558 ms
84 bytes from 172.16.48.2 icmp_seq=4 ttl=63 time=40.475 ms
84 bytes from 172.16.48.2 icmp_seq=5 ttl=63 time=50.268 ms

VPCS>
```

Captured Packets:

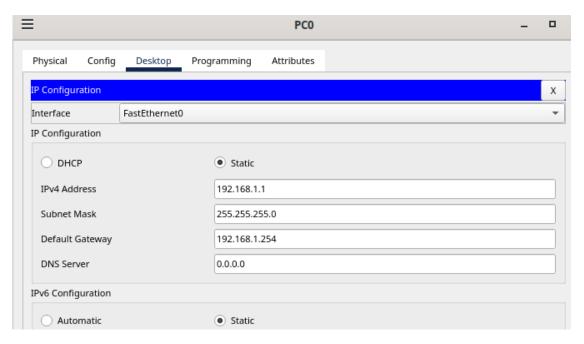


Arrangement of PCs:

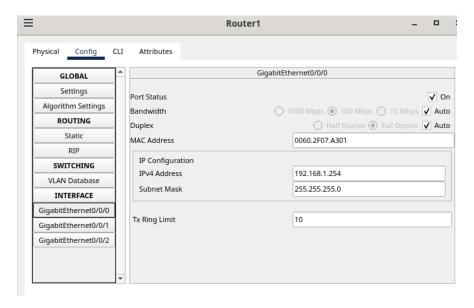


Cisco Packet Tracer

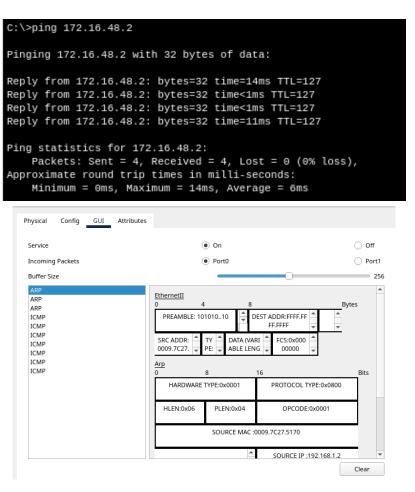
Configuring Virtual PC:



Configuring Virtual Router:



Tracing packets:



Arrangement of PCs:

