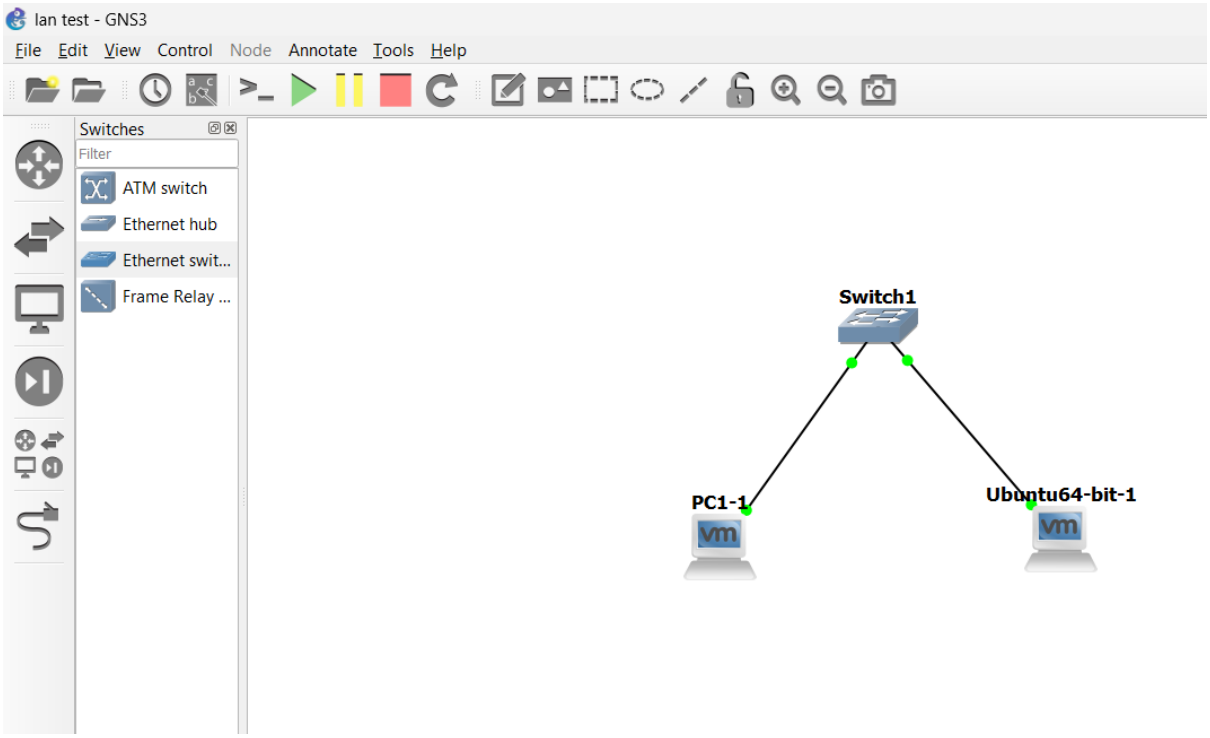
Q5. Create a simple LAN setup with two Linux machines connected via a switch.

Topology

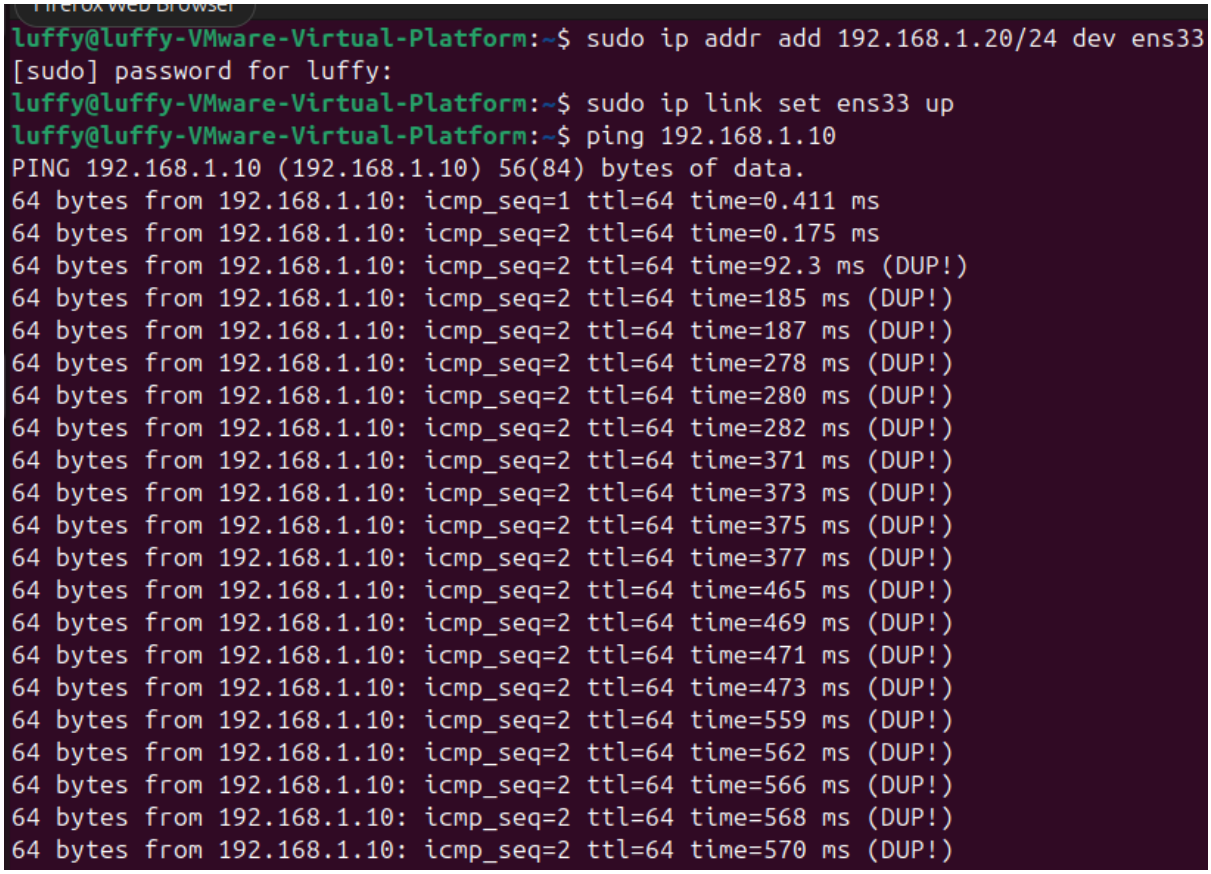
Ubuntu 64 – VM1, PC1 – VM2 ,Switch – Lan set up



From Linux VM1, pinging Linux VM2 -> Ping success

```
sarimila@sarimila-VMware-Virtual-Platform:~$ sudo ip link set ens33 up
sarimila@sarimila-VMware-Virtual-Platform:~$ ip addr show ens33
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:f1:3b:f4 brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.1.100/24 brd 192.168.1.255 scope global noprefixroute ens33
       valid_lft forever preferred_lft forever
    inet 192.168.142.130/24 brd 192.168.142.255 scope global dynamic noprefixroute ens33
       valid_lft 1491sec preferred_lft 1491sec
    inet 192.168.1.10/24 scope global secondary ens33
       valid_lft forever preferred_lft forever
    inet6 fe80::20c:29ff:fef1:3bf4/64 scope link
       valid_lft forever preferred_lft forever
sarimila@sarimila-VMware-Virtual-Platform:~$ sudo ip addr del 192.168.1.10/24 dev ens33
sarimila@sarimila-VMware-Virtual-Platform:~$ sudo ip addr add 192.168.1.10/24 dev ens33
sarimila@sarimila-VMware-Virtual-Platform:~$ sudo ip link set ens33 up
sarimila@sarimila-VMware-Virtual-Platform:~$ ping 192.168.1.20
PING 192.168.1.20 (192.168.1.20) 56(84) bytes of data.
64 bytes from 192.168.1.20: icmp_seq=1 ttl=64 time=0.522 ms
64 bytes from 192.168.1.20: icmp_seq=1 ttl=64 time=96.0 ms (DUP!)
64 bytes from 192.168.1.20: icmp_seq=1 ttl=64 time=191 ms (DUP!)
64 bytes from 192.168.1.20: icmp_seq=1 ttl=64 time=287 ms (DUP!)
64 bytes from 192.168.1.20: icmp_seq=1 ttl=64 time=382 ms (DUP!)
64 bytes from 192.168.1.20: icmp_seq=1 ttl=64 time=476 ms (DUP!)
64 bytes from 192.168.1.20: icmp_seq=2 ttl=64 time=0.241 ms
64 bytes from 192.168.1.20: icmp_seq=2 ttl=64 time=94.8 ms (DUP!)
64 bytes from 192.168.1.20: icmp_seq=2 ttl=64 time=107 ms (DUP!)
64 bytes from 192.168.1.20: icmp_seq=2 ttl=64 time=190 ms (DUP!)
64 bytes from 192.168.1.20: icmp_seq=2 ttl=64 time=190 ms (DUP!)
64 bytes from 192.168.1.20: icmp_seq=2 ttl=64 time=202 ms (DUP!)
```

From Linux VM2, pinging Linux VM1 -> Ping success



Two Linux VMs are created in VMware and added to GNS3.A switch is used to connect the VMs.

IP addresses are configured manually.

Ping test verifies the LAN connection.