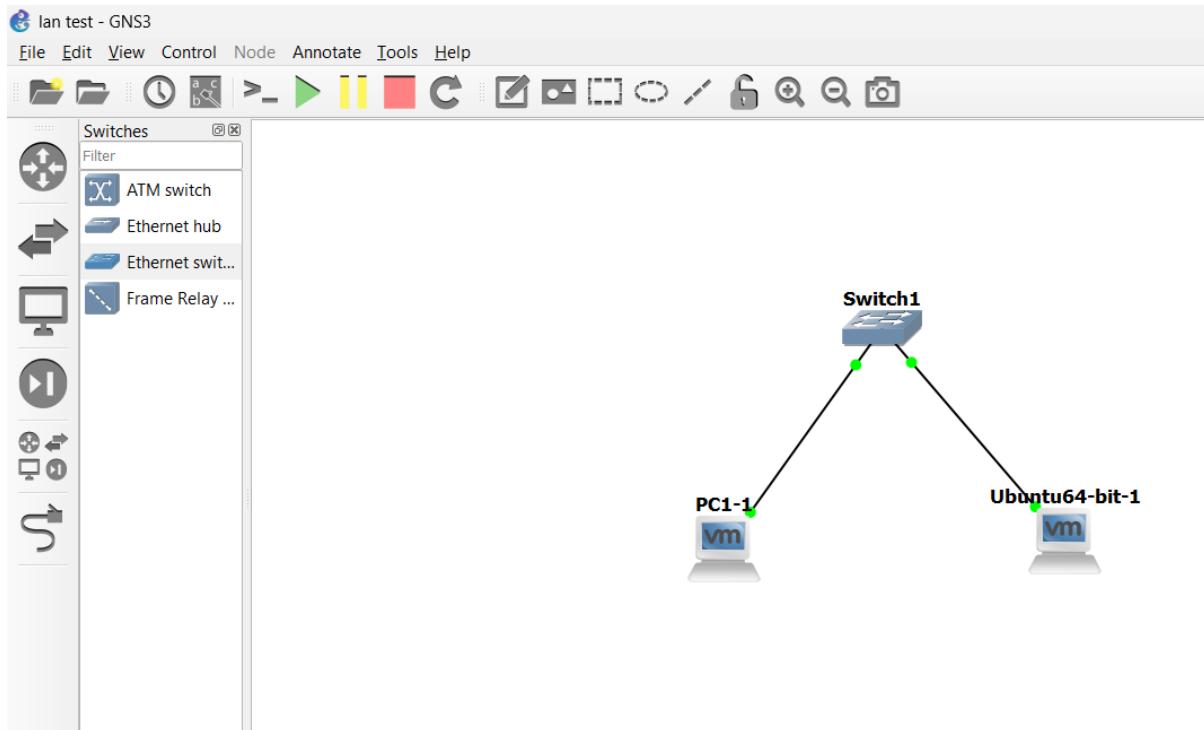


Q5. Create a simple LAN setup with two Linux machines connected via a switch.

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:fe1:3bf4/64 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

```
luffy@luffy-VMware-Virtual-Platform:~$ sudo ip addr add 192.168.1.20/24 dev ens33
[sudo] password for luffy:
luffy@luffy-VMware-Virtual-Platform:~$ sudo ip link set ens33 up
luffy@luffy-VMware-Virtual-Platform:~$ ping 192.168.1.10
PING 192.168.1.10 (192.168.1.10) 56(84) bytes of data.
64 bytes from 192.168.1.10: icmp_seq=1 ttl=64 time=0.411 ms
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=0.175 ms
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=92.3 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=185 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=187 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=278 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=280 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=282 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=371 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=373 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=375 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=377 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=465 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=469 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=471 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=473 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=559 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=562 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=566 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=568 ms (DUP!)
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=570 ms (DUP!)
```

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.