|  |  |
| --- | --- |
| mininet> nodes | See available nodes |
| mininet> net | Info about network connections |
| Mininet> dump | Info about the nodes |
| mininet> h1 ls –ls |  |
| sudo mn -c | Clean up the topology |
| ip link show PC1-eth0 | To determine the MAC address for the PC1-eth0 interface, look at the link/ether field after issuing in a  terminal the following command |
| ip link | To see the network interfaces of any PC |
| ip link set PC4-eth0 up | Bring up the interface |
| ip route | visualize the IPv4 and routing tables of the machine |
| ip addr add 10.10.14.1/24 dev PC1-eth0 | To configure your network interfaces5 and assign an IPv4 and an IPv6 address to PC1-eth0 interface |
| ip addr show | Verify configuration |
| ip route add default via 10.10.14.4 | Configure default gateway |
| # echo 1 > /proc/sys/net/ipv4/ip forward | Enable IP forwarding |
| iptables -t nat -A POSTROUTING -o PC3-eth0 -j MASQUERADE | change the ip of the device in question. Thus packets sent from the device will contain a fake ip address |
| iptables -t nat -A PREROUTING -d 10.10.14.1 -j DNAT --to-destination  10.10.34.3 | forwards certain requests to a set destination, regardless of the routing table |

**TCP/IP Lab commands**

**Lab 1**