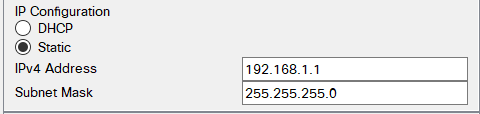
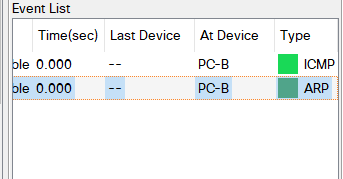
1)



Subnet mask: 255.255.255.0 means 3 bytes describe the network and last byte describes the host.

255.255.0.0 means 2 bytes describe the network and last two bytes describe the host.

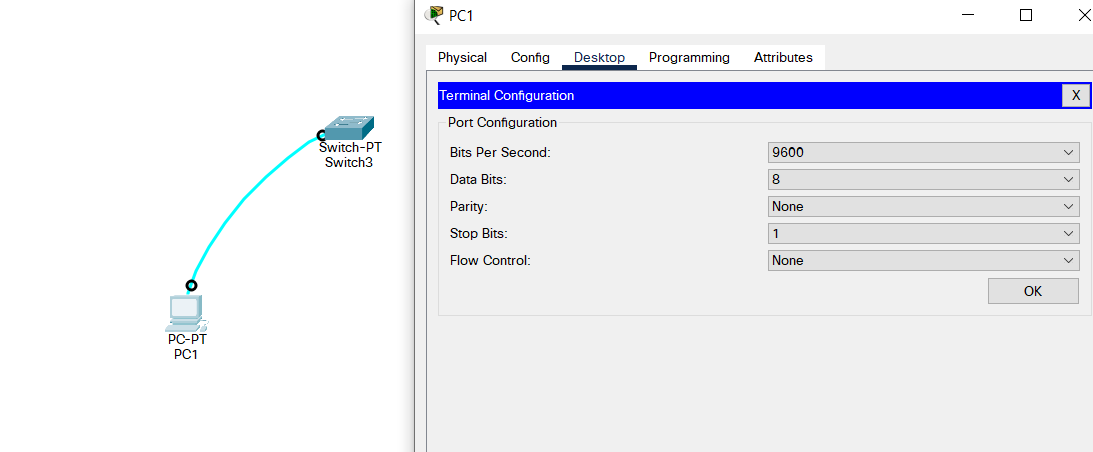
2)



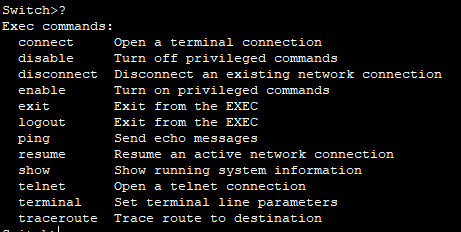
Initially to know the mac address an arp packet is send. After finding the destination mac only the data packet is send. After mac address being known data packets can be send directly without any arp packets for certain period of time.

After certain amount of time arp cache(ram memory allocated) is emptied.

3)

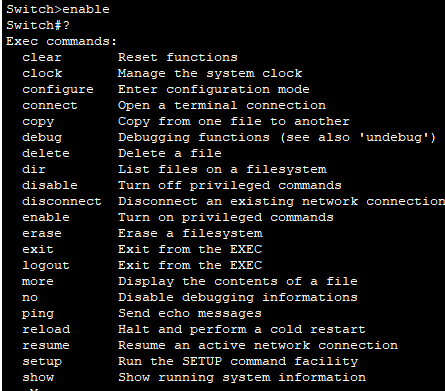


4)Terminal command when setting a switch



5)enable & to exit

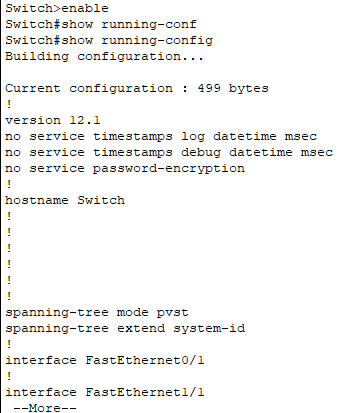


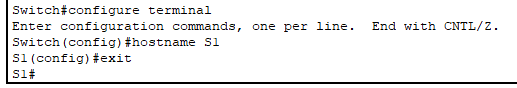




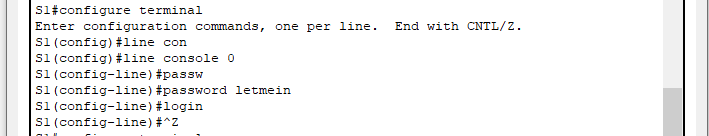
6)Verify Default Switch Configuration

If a wrong input was entered, to get rid of the lock up press ***ctrl+shit+6***





Set up password for login



But here after login in by typing command show running-config we can see the password

A picture containing text

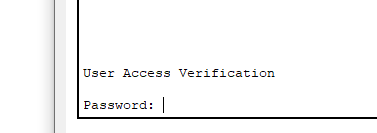
Description automatically generated

To avoid this in switch(config) write service password encryption

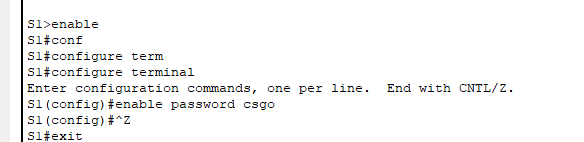
Then password is encrypted

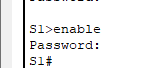
Text, letter

Description automatically generated

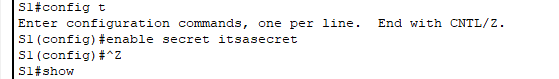


Enable password for editing privileges





This below command overrides the password for editing privileges

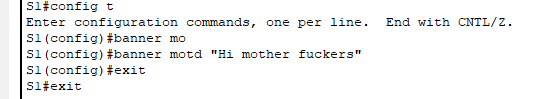


To hide the password when entered

Text, letter

Description automatically generated

To display a banner when login in



To save all the configurations we made

Text, letter

Description automatically generated

Configure ip address in switches

Graphical user interface, text, application, email

Description automatically generated

Then after running show running-config

Text

Description automatically generated