

Day 3 :

1-Networking
2-Permissions

pc1 connect another pc2

ipv4 classes :--> 4 octets

eg:

ipv4 192.168.200.20

subnet mask 255.255.255.0

+gateway/router

+DNS

A 1-126 255.0.0.0

B 128-191 255.255.0.0

C 192-223 255.255.255.0

1st -> 1-223

2th 3rd 4th --> 0-255

```
pc1 10.10.10.10
    255.0. 0. 0 255*255*255
NID 10.0.0.0
pc2 10.200.100.150
    255.0. 0. 0
NID 10.0.0.0
```

commands :
ifconfig --> ip add +subnet mask
ip a --> ip add +subnet mask
nmcli dev show --> all settings
ip route --> gateway
route -r --> gateway

0 255
1-254

```
pc1 192.168.200.20
    255.255.255.0
NID -> 192.168.200.0
```

```
pc2 192.168.201.30
    255.255.255.0
NID 192.168.201.0
```

```
pc1 172.11.16.31        255*255
    255.255.0.0
NID 172.11.0.0

pc2 172.11.15.20
    255.255.0.0
NID 172.11.0.0
```