
LAB NO. 06

6.1 To write the subnet, Broadcast address and valid host ranges for different IPs

OBJECTIVE:

To understand the subnet, Broadcast address and valid host ranges for different IPs

PREREQUISITES: A

Cisco router

A PC DESCRIPTION:

192.168.10.0/28

Net addr 192.168.10.0

Netmask 255.255.255.240

First host 192.168.10.1

Last host 192.168.10.14

Broadcast 192.168.10.15

172.16.0.0/23

Net addr 172.16.0.0

Netmask 255.255.254.0

First host 172.16.0.1

Last host 172.16.1.254

Broadcast 172.16.1.255

172.16.10.5/25

HostAddr 172.16.10.5

NetMask 255.255.255.128

NetAddr 172.16.10.0/25

First Host 172.16.10.1

Last Host 172.16.10.126

Broadcast 172.16.10.127

N0. Of Hosts 126

172.16.10.33/27

HostAddr 172.16.10.33

NetMask 255.255.255.224

NetAddr 172.16.10.32/27

First Host 172.16.10.33
Last Host 172.16.10.62
Broadcast 172.16.10.63
No. Of Hosts 30

172.16.10.65/26
HostAddr 172.16.10.65
NetMask 255.255.255.192
NetAddr 172.16.10.64/26
First Host 172.16.10.65
Last Host 172.16.10.126
Broadcast 172.16.10.127
N Hosts 62

172.16.10.17/30
HostAddr 172.16.10.17
NetMask 255.255.255.252
NetAddr 172.16.10.16/30
First Host 172.16.10.17
Last Host 172.16.10.18
Broadcast 172.16.10.19
N Hosts 2

192.168.100.25/30
HostAddr 192.168.100.25
NetMask 255.255.255.252
NetAddr 192.168.100.24/30
First Host 192.168.100.25
Last Host 192.168.100.26
Broadcast 192.168.100.27
No. Of Hosts 2

192.168.100.37/29
HostAddr 192.168.100.37
NetMask 255.255.255.248
NetAddr 192.168.100.32/29
First Host 192.168.100.33
Last Host 192.168.100.38
Broadcast 192.168.100.39
No. Of Hosts 6

192.168.100.66/27
HostAddr 192.168.100.66
NetMask 255.255.255.224
NetAddr 192.168.100.64/27
First Host 192.168.100.65
Last Host 192.168.100.94
Broadcast 192.168.100.95
No. of Hosts 30

192.168.100.17/29

HostAddr 192.168.100.17

NetMask 255.255.255.248

NetAddr 192.168.100.16/29

First Host 192.168.100.17

Last Host 192.168.100.22

Broadcast 192.168.100.23

No. Of Hosts 6

10.10.10.5/20

HostAddr 10.10.10.5

NetMask 255.255.240.0

NetAddr 10.10.0.0/20

First Host 10.10.0.1

Last Host 10.10.15.254

Broadcast 10.10.15.255

No. Of Hosts 4094