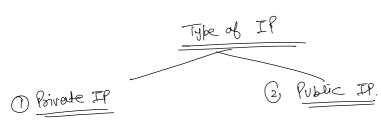
Computer Network

Internet Protocal Address IP Address :

· It is a logical address which is used to establish Communication

86it 40ctant Meisral [86it | 86it | 86it 86it WIPNY (326H) IPV6 (1286H)



for Communication in the LAN environment.

- for Communication in the Internet environment
- · Boulded by IANA. (Intervet Assigned Number)
- · Provided by ISP (Intervet Service Provider)

. Free of Cost.

172.167 16 Private NIW

Private IP Rouge is Occass A: 10.0.0.0 to 10.25.25.257.257

- # of Private Network in CLASS A: 172.60.0 to 172.60.257.257

- CLASS A: 1 ~ CLASS C: 192.168.60.0 to 192.168.

CLASS B: 16

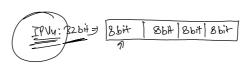
CLASS C: 256

NAT (Network Address Tourslation); that convert the Private IP into Public IP When Packet

is goly outside the Network.

Convert Public IP into Brivate IP When Packet is Coming that Inside the Network.

IP



- Decimal Rebregentation (Dotted Docimal
- Binary Representation 3
- Decimal Representation: In which It is Represent in a Decimal Numbel.

84 | 864 | 864 | 864

(1) S. 60 9

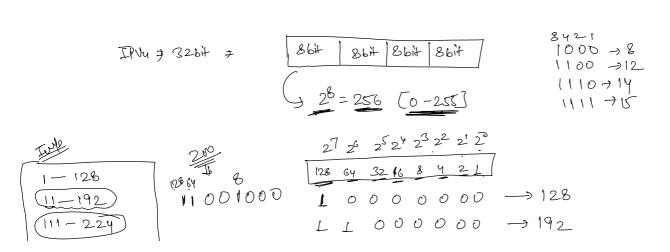
: In which IP is Represent in the from of 0,0 of 1,0 (2)

186it | 86it | 86it | 86it

Network Port

HOST POUL Network Pout Nid

- 2 Host Pourt
- (1) Network last: N/W Part meons from where we are getting network
- 3 Host leut: from where we are connective the Host



New Section 2 Page 2

11001000 L 0000000 --> 128 L L 000000 -> 192 1 1 1 0 0 0 0 0 -> 224 1 1 1 0 0 0 0 -> 240 11111-246 111000 -> 248 111111-252 1 1 1 1 00 -> 252 1111111 -254 1111 1111 -255

11111111 -> 255

(2) CLASS B [128-191] [2 Octaval Nick, 2 Octaval Hird] => 86H N/W + 246H HOST

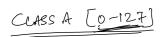
(3) CLASS C [192-223] [3 octaval Nick, 2 octaval Hird] => 246H N/W + 86H HOST

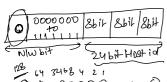
(4) CLASS D [224-239]x Multicosting

86it 86it 86it

X & CLASS E [240-255 x Regented for

future Purpose





O 0000000 → O

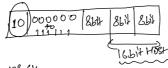
○ 1111111 → 127

#a6 Network = 2

#Host =

5 1.6 Crose HOST

CLASS B [128-191]



128 64

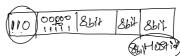
10 000000 -> 128 10111111 7191

#N/W =

all 1'9

4 65534 HOST

CLASS C [192-223]



128 6432

11000000 -> 192 110 LH11 7 223

 $\pm 1000 = 24 - 3$

254 Host



In Decimal Representation first octant [Left Most] will Decide the type of closs.

1, y, 2. w

21: 0-127: CLASS A

128-191: CLASS B

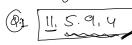
192-223 : CLASS C.



In Binouy Representation first few bits (Lebt most) will Decide the type of Class.

i's Left most bit

find the Class, Netid, Host id it the following Ip.



CLASS A

N/WR: II

HUSTID! 5,9,4

N/w Addrew: 11.0.0.0 DBA: 11.255. 255,255

0-127:1 128-191:13

N/w 7d: 156.16

HUSTICK ! 9.11

NIW Addres : 156.16.0.0

DBA: 156.16.25T.25T

CLASS: C

NIWID: 221.101.17

Host id: IL

NIW Address: 221.101.17.0

DBA: 221, 101, 17, 255.

DBA: 156, 16, 255, 255 DBA: 221, 101, 17, 255.

—allo's → NIW APLY >all 1's → DRA

for a Network Address all Host bits are 0's & for a Direct BroadCast Address (DBA) all Host bit 1's.

11,5-9,4 24bit

00001011. 00000101. 00001001. 00000100

NW