Identifying IPvY addresses

N=all & bits in an octet for network portion n=a bit in the network
H=all & bits in an octet for host portion h=a bit in the host

(7)

209. [65. 200. 227 /27 [Host] (1) N. N. N. nnn hhhhh 255. 255. 255. 224 209. [65. 200. 227 /27 [Net]

10.1.8.200 / 26 [Host] N.N.N. nnhhhhhh 255.255.255.192 10.1.8.192 / 26 [Net]

10·1·1·101 /25 [Host] (3) N·N·N·nhhhhhhh 255·255·255·128 10·1·1·0 /25 [Net]

192. [68.28.45 / 28 [Host] N. N. N. N. nnnnhhhh 255.255.255.240 192.168.28.32/28 [Net]

209.165.200.227 /27 209.165.200.225 [1st] 209.165.200.254 [last] 209.165.200.255 [Broadcast]

10.1.8.200 126

172.31.45.252 /27 [Host] N. N. N. H 255.255.255.0 172.31.45.0 /24 [Net]

172.16.117.77 /20 [Host] N. N. nann hhhh. H 255.255.240.0 172.16.112.0 /20 [Net]

209. [GS. 202. 140 /27 [Host] N. N. N. N. N. Nhhhhh 255. 255. 255. 224 209. [GS. 202. 128 /27 [Net]

10.101.99.17/23 10.101.98.1 [1st] 10.101.99.254 [last] 10.101.99.255 [Broadcast]

172.31.45.252 124 (10)
172.31.45.1 [15]
172.31.45.254 [last]
172.31.45.255 [Broadcast]

172.16.117.77/20 12 172.16.112.1 [15t] 10·1.8·254 [last] 10·1.8·255 [Broad cast]

10.1.1.101/25 (3) 10.1.1.1 [1^{tt}] 10.1.1.126 [last] 10.1.1.127 [Broadcast]

192. 168. 33.63 (5) 255. 255. 255. 192 host range = 192. [68. 33.1 to 192. 168. 33.126 .: Host addr

172.25.12.52 (17) 255-255.255.0 host range = 172.25.12.1 to 171.25.12.257 .: Host addr

172.16.128.48 255.255.255.240 host range = 172.16.128.79 to 172.16.128.62 .: Network addr

172.16.0.255 (21) 255.255.0.0 host range = 172.16.0.1 to 172.16.255.254 .: host addr

Private IPvy range

172.16.127.254 [last] 172.16.127.255 [Broadcast]

209.165.202.140127 209.165.202.129 [1st] 209.165.202.158 [last] 209.165.202.159[Broadcast]

239. 192.1.100 (6) 255. 252.0.0 multicast range=224.0.0.0 to 239.255.255.255 -: multicast address

10.255.0.0 255.0.0.0 ... network addr

209. 165. 202.159 (5) 255. 255. 255.227 Host range = 209.165.202.129 to 209.165.202.158 .: Broadcast addr

227. 10.1.11 22 255. 255. 255. D multicast = 224.0.0.0 to range 239.255-255. 255 ...multicast addr 10.000/8 = 10.0.00 to 10.255.255.255 172.16.00/12 = 172.16.00 to 172.31.255.255 192.168.00/16 = 192.168.00 to 192.168.255.255

209. 165.201.30 /27 (public) 23 (private) 24 192.168.255.253 /24 C private) 25 (0.100.11.103 / 16 172.30.1.100 /28 (Cprivate) 26 C public) 27 192.31,7.11 /24 28 172. 20. 18. 150 /22 (private) 128.107.10.1 /16 29 (public) 192.135.250.10/24 (public) 30 64.104.0.11 /16 (public) 31

Valid Host addr Within range

172.16.255.0/16 (33) Invalid Host addr Net addr

192.168.0.254 /24 (35) Valid Host. addr Within Range 241.19.10.100124 (34) Valid Host addr Within Range

192.31.7.255/29 36) Invalid Host addr Broadcast IP Gy. 102.255.255/14 (3)
Invalid Host-addr
Broadcast IP

227.0.0.5 /16 Valid Host-addr Within Range

10.0.255.255/8 (39) Irvalid Host addr Broad cast IP 193.133.219.8 /24 Valid Host addr Within Rang