

$/22 \Rightarrow 2^{(32 - 22)} = 2^{10} = 1024$ IP addresses

$n \text{ devices(IP)} + 1 \text{ router} + 1 \text{ NA(adresa de retea)} + 1 \text{ BA(adresa broadcast)} \Rightarrow n + 3$

N1 : $240 + 3 = 243 \leq 256 = 2^8 \Rightarrow /24$ (8 zeros, $32 - 8 = 24$ ones)

N2 : $176 + 3 = 179 \leq 256 = 2^8 \Rightarrow /24$

N3 : $80 + 3 = 83 \leq 128 = 2^7 \Rightarrow /25$

N4 : $64 + 3 = 67 \leq 128 = 2^7 \Rightarrow /25$

N5 : $16 + 3 = 19 \leq 32 = 2^5 \Rightarrow /27$

N12345: $5 + 2 = 7 \leq 8 = 2^3 \Rightarrow /29$

N5w: $2 + 2 = 4 \leq 4 = 2^2 \Rightarrow /30$

$256 + 256 + 128 + 128 + 32 + 8 + 4 = 812 < 1024$

Network IP: 146.156.92.0

Mask: 255.255.252.0 (/22)

NA = AND(MASK, IP)

BA = OR(NOT(MASK), IP)

146.156.92.0/24 146.156.92.0 - 146.156.92.255	R1 = 146.156.92.1	S1 = 146.156.92.2
146.156.93.0/24 146.156.93.0 - 146.156.93.255	R2 = 146.156.93.1	S2web = 146.156.93.2
146.156.94.0/25 146.156.94.0 - 146.156.94.127	R3 = 146.156.94.1	S3dns = 146.156.94.2
146.156.94.128/25 146.156.94.128 - 146.156.94.255		
146.156.95.0/27 146.156.95.0 - 146.156.95.31		
146.156.95.32/29 146.156.95.32 - 146.156.95.39		
146.156.95.40/30 146.156.95.40 - 146.156.95.43		