Corso Cybersecurity Specialist Epicode - Es. 2 LUIGI BENVENUTI

Scrivi per i seguenti IP: IP Network, IP Gateway convenzionale, IP Broadcast, quali e quanti bit per l'host e quanti e quali bit per la network.

N.B. Calcolo degli host disponibili -> 2 ^ N bit host - IP Rete - IP Broadcast.

- 1. 1.1.1.1/8
- 2. 128.1.6.5/12
- 3. 200.1.2.3/24
- 4. 192.192.1.1/22
- 5. 126.5.4.3/9
- 6. 200.1.9.8/24
- 7. 172.16.0.4/16
- 1) IP Net: 1.0.0.0

IP Gateway: 1.0.0.1

IP Broadcast: 1.255.255.255

Host Disponibili: 2^24 – 2= 16777214 Host IP Range: 1.0.0.1 to 1.255.255.254

Reti: 2^8-2=254

2) IP Net: 128.0.0.0

Bin Net: 11111111.11110000.00000000.00000000 Bin Host: 00000000.00001111.1111111111111111

IP Gateway: 128.0.0.1

IP Broadcast: 128.15.255.255 Host Disponibili: 2^20 – 2= 1048574

Host IP Range: 128.0.0.1 to 128.15.255.254

Reti: 2^12-2=4094

3) IP Net: 200.1.2.0

Bin Net: 11111111.11111111. 11111111.00000000 Bin Host: 00000000. 00000000. 00000000.11111111

IP Gateway: 200.1.2.1
IP Broadcast: 200.1.2.255
Host Disponibili: 2^8 – 2= 254

Host IP Range: 200.1.2.1 to 200.1.2.254

Reti: 2^24-2=16777214

4) IP Net: 192.192.0.0

Bin Net: 11111111.11111111. 11111100.00000000 Bin Host: 00000000. 00000000. 00000011.11111111

IP Gateway: 192.192.0.1 IP Broadcast: 192.192.3.255 Host Disponibili: 2^10 – 2= 1022

Host IP Range: 192.192.0.1 to 192.192.3.254

Reti: 2^22-2=4.194.302

5) IP Net: 126.0.0.0

Bin Net: 11111111. 10000000. 00000000.00000000 Bin Host: 00000000. 01111111. 11111111111111

IP Gateway: 126.0.0.1

IP Broadcast: 126.127.255.255 Host Disponibili: 2^23 – 2= 8388606

Host IP Range: 126.0.0.1 to 126.127.255.254

Reti:2^9-2=510

6) IP Net: 200.1.9.0

Bin Net: 11111111.11111111. 11111111.00000000 Bin Host: 00000000. 00000000. 00000000.11111111

IP Gateway: 200.1.9.1 IP Broadcast: 200.1.9.255 Host Disponibili: 2^8 – 2= 254

Host IP Range: 200.1.9.1 to 200.1.9.254

Reti: 2^24-2=16777214

7) IP Net: 172.16.0.0

Bin Net: 11111111.11111111. 00000000.00000000 Bin Host: 00000000. 00000000. 11111111.11111111

IP Gateway: 172.16.0.1

IP Broadcast: 172.16.255.255 Host Disponibili: 2^16 – 2= 65534

Host IP Range: 172.16.0.1 to 172.16.9.254

Reti:2^16-2=65534

Benvenuti Luigi, 23/01/2024, Corso Cybersecurity Specialist Epicode.