

192.168.20.0/24

Subnet Mask : 255.255.255.0 = /24

VLAN 30 = Finance

192.168.20.0/24

30 = 11110₂

25

net

hosts

255.255.255.00000000

New Subnet Mask

255.255.255.11100000 /OR/ 27
255.255.255.224

IP Range

192.168.20.0 - 192.168.20.31/27

Gateway 192.168.20.1/27

PC 2 = 192.168.20.2 PC 5 = 192.168.20.30

VLAN 20 = IP

192.168.20.32 / 27

(25) = 32 (32)

IP Range

192.168.20.32 - 192.168.20.63 / 27

Gateway

00000000 . 226 . 226 . 226

192.168.20.33 / 27

00000111 . 226 . 226 . 226

000 . 226 . 226 . 226

40'
VLAN 15 = SALES (15 hosts).

$$2^5 = 32$$

192.168.20.64/27

IP Range

192.168.20.68⁴ - 192.168.20.95/27

Gateway

192.168.20.65/27

VLAN 10 = ~~24~~ HR (10 hosts).

$$2^4 = 16$$

192.168.20.96/27
255.255.255.111 00000
↑ net → ho

New subnet 255.255.255.1111 0000 = /28

IP Range

192.168.20.96/28 - 192.168.20.111/28.

gateway

192.168.20.97/28.