

192.168.20.0/24 ~~192.168.20.31/27~~ = 02 May

Subnet Mask : 255.255.255.0 = /24

VLAN 30 = Finance

192.168.20.0/24

30₁₀ = 11110₂

25₁₀ = 11000000
net \leftarrow 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

PC₂ = 192.168.20.2 PC₅ = 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

192.168.20.33 /27

192.168.20.33 /27

192.168.20.33 /27 - 0.0.0.0 /27

192.168.20.33 /27

0.0.0.0 /27 = 256

VLAN 15 = SALES (15 hosts).

255 - 38

192.168.20.64/27

IP Range

192.168.20.68 4 - 192.168.20.95/27

Gateway

192.168.20.65/27

VLAN 10 = HR (10 hosts).

24 = 16

192.168.20.98/27
255.255.255.11100000

New Subnet 255.255.255.11110000 = /28

IP Range

192.168.20.96/28 - 192.168.20.111/28

Gateway

192.168.20.97/28