

Subnet for district shop 1

starting point 10.0.18.0 /8

subnet for 50 IPs

① 128 64 32 16 8 4 2 1

1

6 bits

/8 → ||||| . 00000000 . 00000000 . 00000000

saving the host!

② → ||||| . ||||| . ||||| . ||000000 → /26

Increment is 64



DS1
DS2

③ 10.0.18.0 - 10.0.18.63
10.0.18.64 - 10.0.18.127
10.0.18.128 - 10.0.18.191
10.0.18.192 - 10.0.18.255
10.0.19.0

4 district shops
for 1 /24 block

50 / 4 → 12.5

→ /29

district shops

so we need 13 /29 blocks → 10.0.18.0 } 10.0.31.255
+ 13