

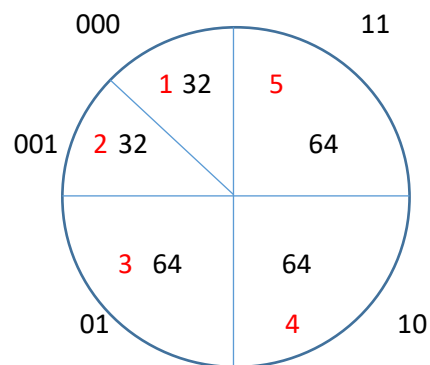
VLSM

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1. Variable Length Subnet Masks (VLSM) is a technique in which we divide the whole network in a different multiple network with different subnet masks.
2. As per the requirement we divide the network, which gives us flexibility and reduces the number of wastes Ips.
3. VLSM is also known as classless subnet Mask.

For Example: we have to create 5 subnets in a network.

IP: 192.10.10.0 /24



So, here we have five networks, 2 of 32 and 3 of 64 IPs.

1st Network : 192.10.10.0 / 27
192.10.10.31 / 27

here the subnet will increase by three as we carried three network bits which are 000.

2nd network : 192.10.10.32 /27
192.10.10.63 / 27

3rd network : 192.10.10.64 /26 ---- (/26 because we carried 2 bits)
192.10.10.127 /26

4th network : 192.10.10.128 /26
192.10.10.191 /26

5th network : 192.10.10.192 /26
192.10.10.255 /26