

## VLSM & FLSM

Ex. Jio has bought IP 193.18.19.0

If we take CIDR 193.18.19.0/26

Host Address  $\Rightarrow 2^6 - 2 = 62 \rightarrow$  Will fill needs of Data Center 1

If we take CIDR 193.18.19.0/27

Host Address  $\Rightarrow 2^5 - 2 = 32$

It has 3 Data Centers & need to give IP to each

	Data Center 1	Data Center 2	Data Center 3
	↓	↓	↓
	50 IP's needed	10 IP's needed	100 IP's needed
	↓		
CIDR	/26	/28	/25

VLSM - Variable Length Subnet Mask

$\rightarrow$  We only use the IP's needed to prevent wastage

FLSM - Fixed length Subnet Mask

$\rightarrow$  Some subnet is being used since same no. of users/IP's needed

Data Center 1	Data Center 2	Data Center 3
↓	↓	↓
100 IP needed	100 IP needed	100 IP needed

So same subnet