

## CIDR – Classless Inter-Domain Routing

- CIDR is a short-cut notation for describing blocks or range of IP Address.
- There are no classes in CIDR.
- It has blocks concepts.
- The Address should be contiguous.
- The Number of addresses in a block must be in the power of 2.
- It has a concept of Notation which represents the Host ID contained by a particular block.
- The Format is “a.b.c.d/n” where n represents Notation.
- There is no wastage of IP address in CIDR.
- If a company needs 100 IP addresses, use CIDR instead of assigning a whole IP Class.

Eg:-

Block ID	Host ID
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192.168.100.101/32 -> represents 1 IP address

192.168.100.101/31 -> represents 2 IP addresses

192.168.100.101/30 -> represents 4 IP addresses

192.168.100.101/28 -> represents 16 IP addresses

192.168.100.101/24 -> represents 256 IP addresses