

7 IP Address : (Internet Protocol)

→ IP Address numerical identity for identifying computers and communicating.

IP Address has two functions:

1.) Host (or) network interface identification.

↓  
it is mediator

Ex: If we call to a person, the call will go to nearest tower then to person.

↓  
mediator → Host (or) Network interface

2.) Location addressing

→ It is the range for identifying to which it belongs to.

Network interface.

### Types of IP Address

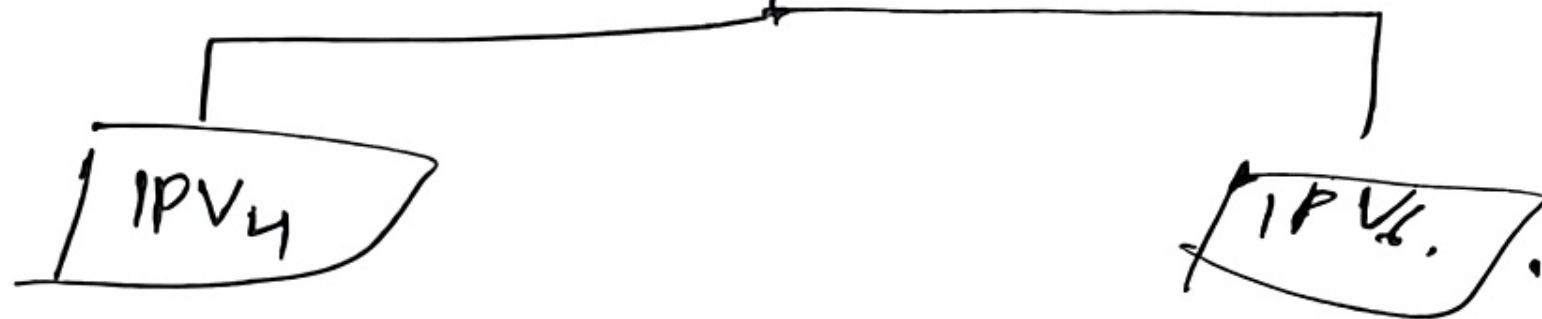
Static

Irrespective of location IP address won't change.

Dynamic

IP address changes with location

## versions of IP Addresses.



- It has 4 versions
- Uses 32 bit
- The possible versions
- 4-2 billion
- manual config

- Uses 128 bit
- 340,000,000,000,000,000 addresses
- Auto config

## External & Internal IP Address

External: external (or) local IP address is used across entire internet to locate computer systems and devices

Internal: A local (or) Internal IP address is used inside a private network to locate computers and devices connected to it

## DNS

human Understandable name assigned to an IP address.

## Parts of domain name:

- Top level Domain.
- Authoritative Domain
- Subdomain
- Root domain