

IP Address

- ✍ **1 - 126** it is a **Class A** address.
- ✍ **128 - 191** it is a **Class B** address
- ✍ **192 - 223** it is a **Class C** address
- ✍ **224 - 239** it is a **Class D** address
- ✍ **240 - 255** it is a **Class E** address

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IP Address Assignment

Each network address prefix used within a given TCP/IP internet must be UNIQUE.

Private internet can assign address prefixes without considering the assignments of other organizations
A central authority exists to ensure the uniqueness of global IP assignments

Internet Corporation For Assigned Names and Numbers (ICANN)

Internet Service provider (ISP)

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IP Address Assignment

Each host on a specific network is assigned a *host number* or *host address* that is unique *within that network*

Assignment of network numbers must be coordinated globally; assignment of host addresses can be managed locally

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Example: IP Address Assignment

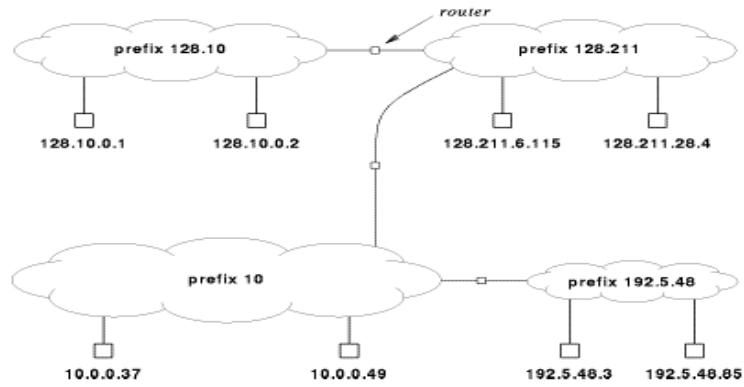
Select address class for each network depending on expected number of hosts

Assign network numbers from appropriate classes

Assign host suffixes to form internet addresses for all hosts

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Example: IP Address Assignment



Internetworking

