NETWORKING (CCNA TRAINING)
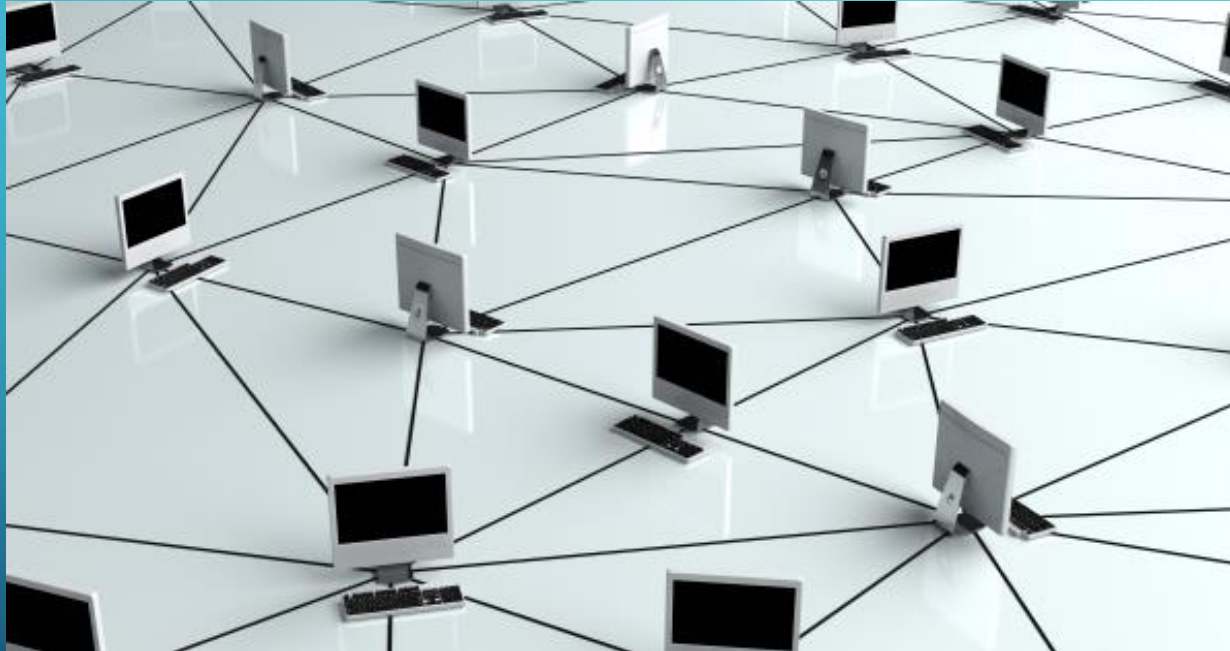
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BASICS CONCEPTS OF NETWORKING

- What is Computer Network?

  Most simple definition is, a bunch of computers connected to each other.
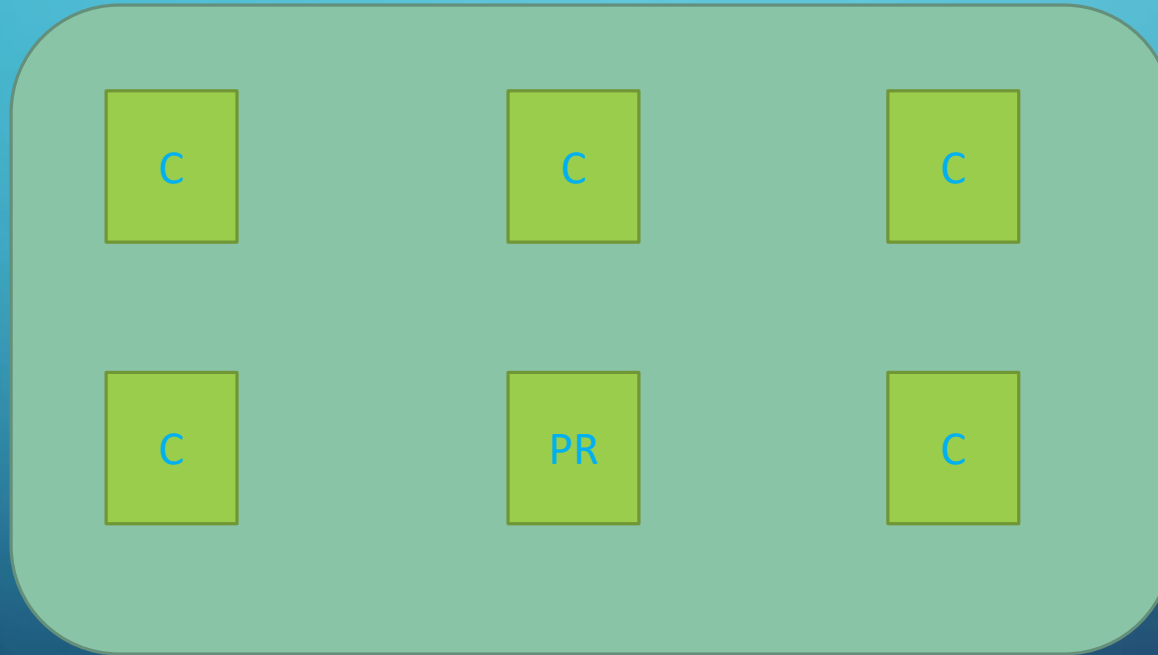
BASICS CONCEPTS OF NETWORKING

- Why we need Computer Networking?
  Nothing but to "share data/information"

- Data means not only the Documents but also pictures, mp3s, videos etc.

- Copper wire, infrared etc. can be used to create a network

TYPES OF NETWORK

- LAN – Local Area Network

- MAN – Metropolitan Area Network

- WAN – Wide Area Network

TYPES OF NETWORK

- What is LAN?

  All the devices are in the same building.

- Building can be house, school or small business.
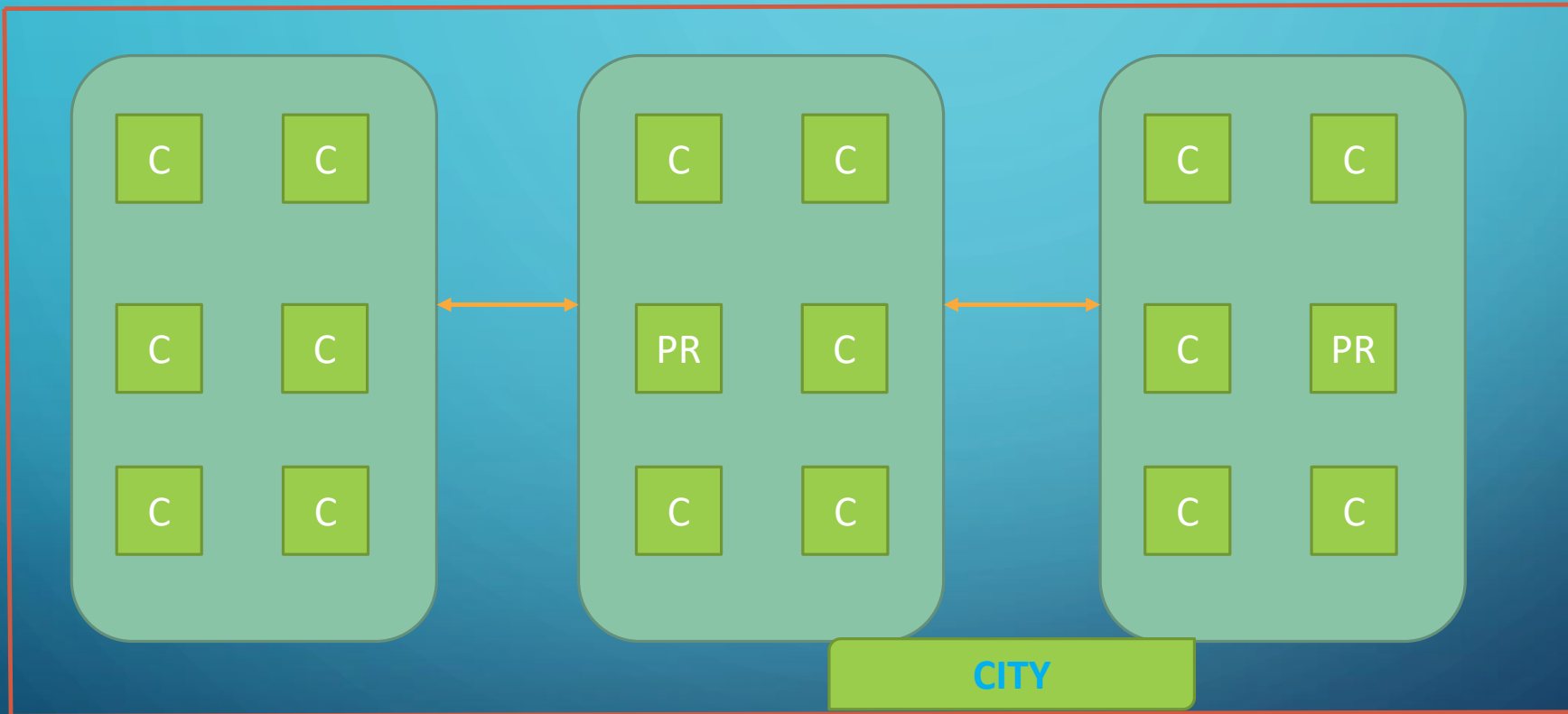
TYPES OF NETWORK

- Why we need a LAN?
  As the previous slide we saw there was a printer. So if everyone wants to use the printer, they need to be connected to each other.

TYPES OF NETWORK

- What is MAN?

  Basically bigger than LAN. It is a combination of 2 or more LAN.
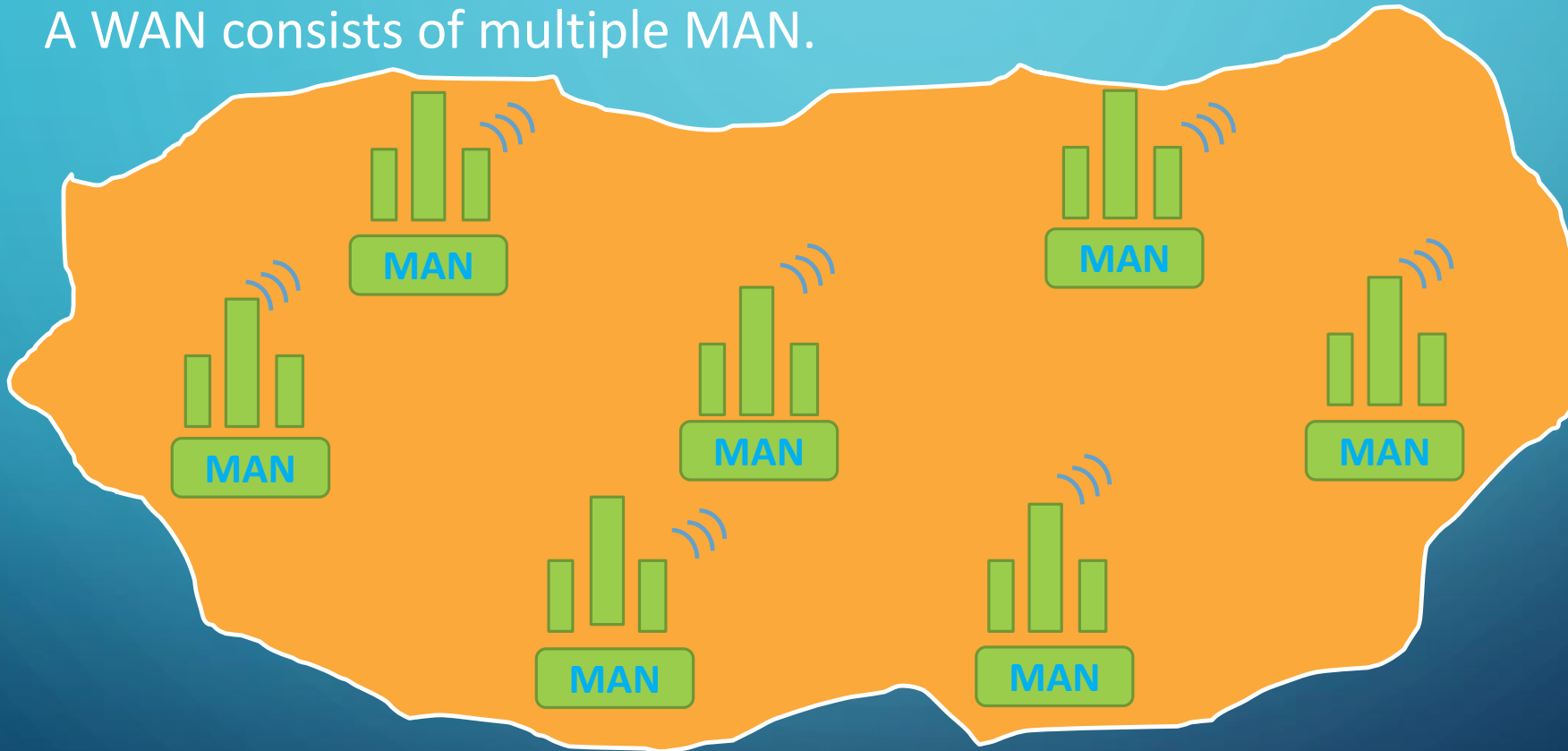
TYPES OF NETWORK

- Why we need MAN?
  Suppose there is two hospitals in a city and a research centre, they want to connect each other. They may use wired or wireless connection to communicate with each other.

TYPES OF NETWORK

- What is WAN?

A WAN consists of multiple MAN.

TYPES OF NETWORK

- When the network is larger than 30 miles, it is called WAN and less than that is called MAN .

- Why we need WAN?
  Telephone companies uses this concept to connect their telephone towers with one another.

- Biggest example of WAN is "INTERNET"

PARTS OF NETWORK

- PC

- Laptops

- Server

- Printer

- Router

- Modem

- => Every device connected to a network is called as "node"

PARTS OF NETWORK

- Communication media

  Copper Wire

  Wi-Fi

  Radio wave

  infrared

END OF DAY 1

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