







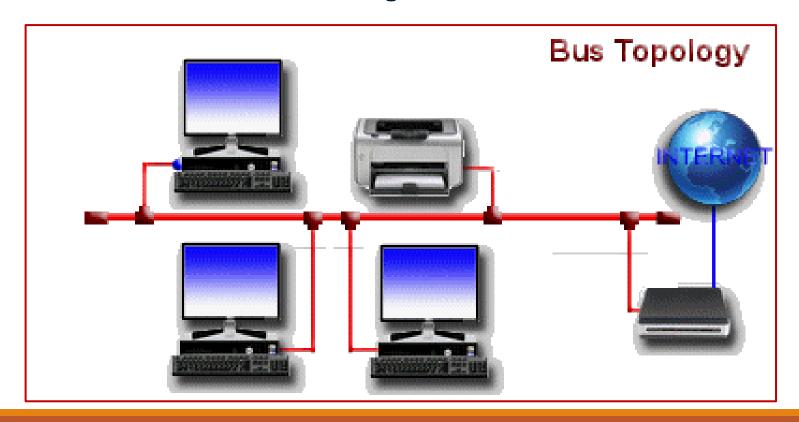


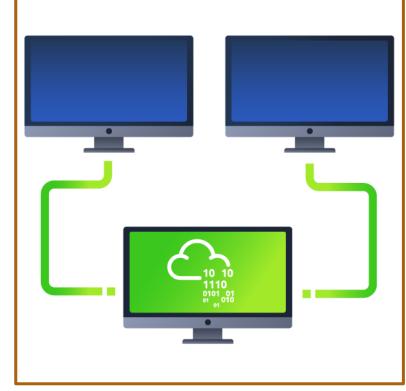
**Network** 

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### **Network:**

A network is a system of interconnected devices (like computers, phones, and printers) that allows them to communicate and share resources, such as files and printers, using a shared medium like cables or wireless signals.





### Interconnected Devices:

A network consists of two or more devices that are linked together to exchange data and share resources.

### Shared Medium:

These devices are connected through a physical or wireless medium, such as cables, Wi-Fi, or satellite connections.

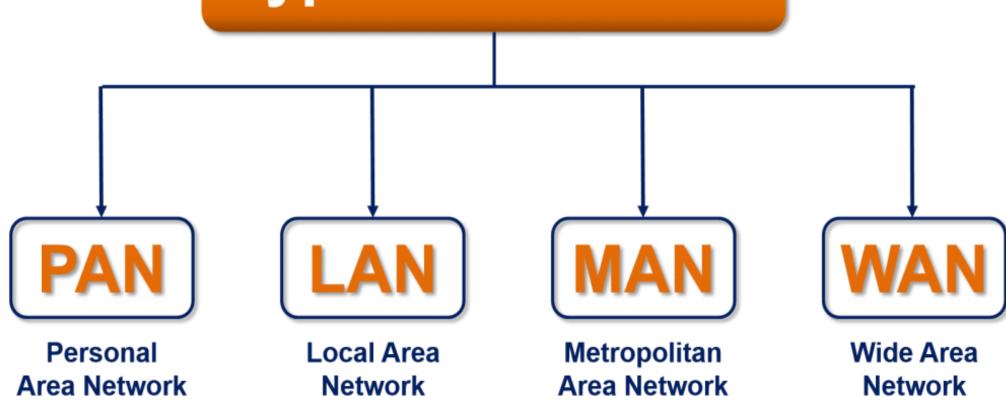
### Resource Sharing:

Networks enable users to share resources like printers, files, and internet access, making it easier to collaborate and work efficiently.

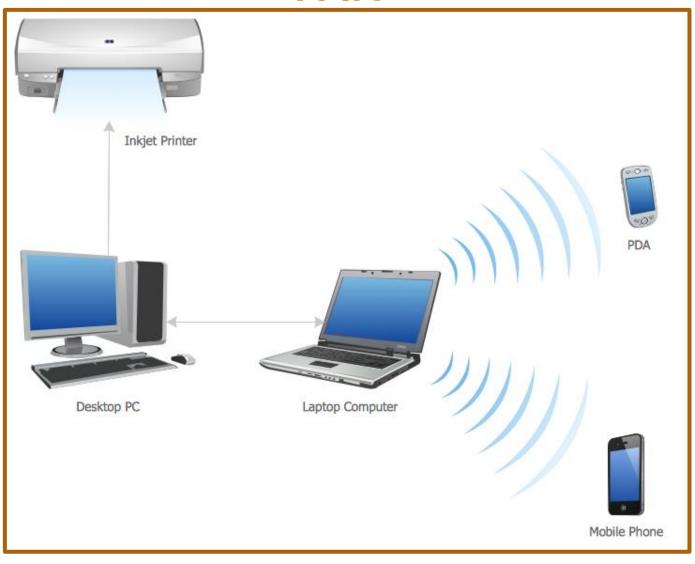
#### Communication:

Networks facilitate communication between devices, allowing users to send emails, share messages, and collaborate on projects.

# **Types of Network**



### **PAN**



# Personal Area Network (PAN)



### 1. Personal Area Network (PAN)

PAN is the most basic type of computer network. It is a type of network designed to connect devices within a short range, typically around one person.

It allows your personal devices, like smartphones, tablets, laptops, and wearables, to communicate and share data with each other.

PAN offers a network range of 1 to 100 meters from person to device providing communication.

PDA Smartphone





Laptop





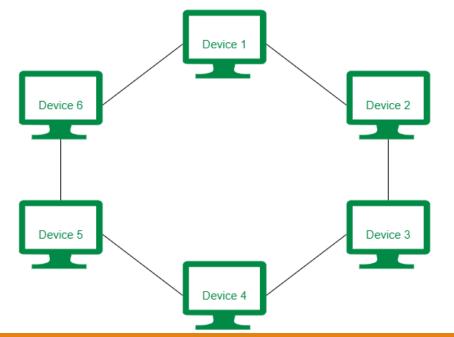
Tablet Printer

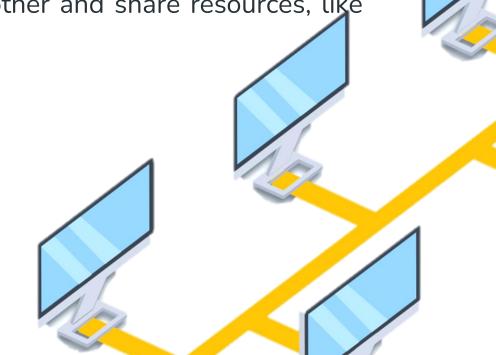
### 2. Local Area Network (LAN)

A LAN, or Local Area Network, is a network of interconnected devices (like computers, printers, and servers) within a limited physical area, such as a home, office, or school.

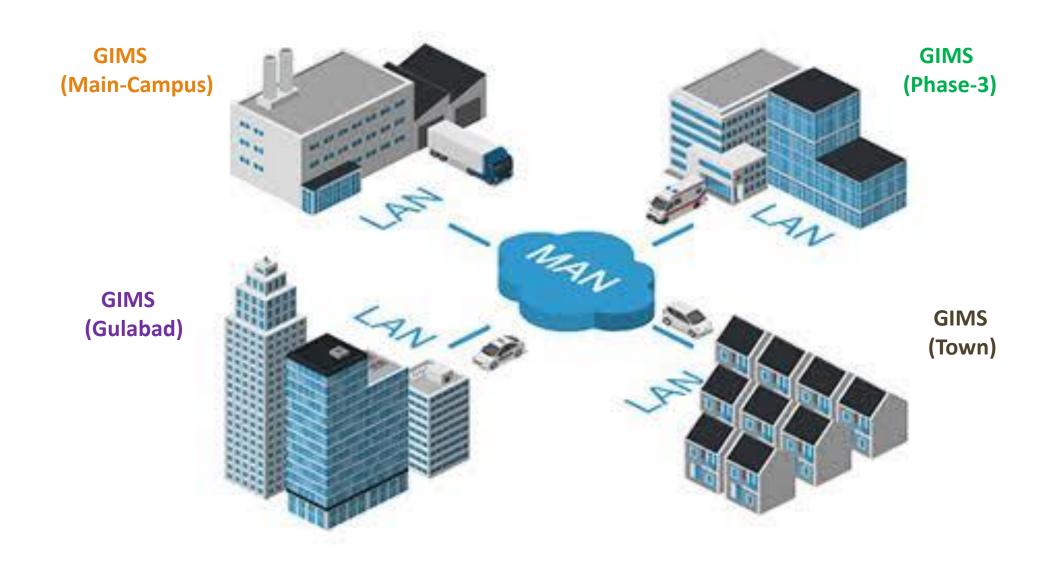
It allows devices to communicate with each other and share resources, like

files and printers, within that defined area.





## Metropolitan area network (MAN)



### 3. Metropolitan Area Network (MAN)

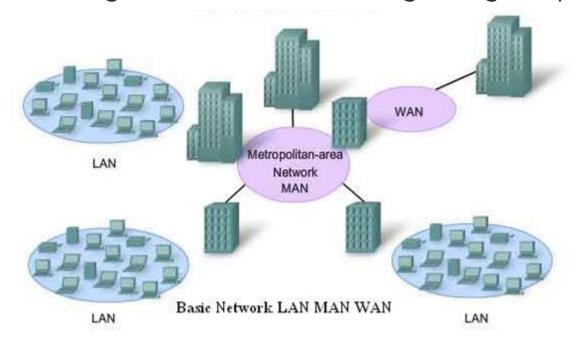
A MAN is larger than a LAN but smaller than a WAN.

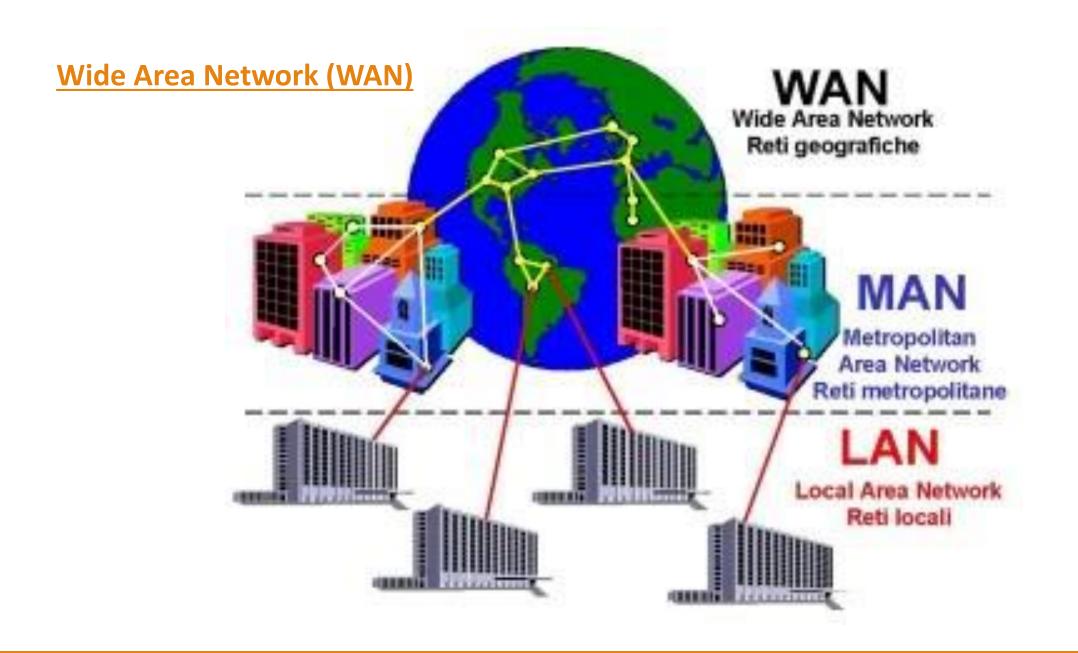
This is the type of computer network that connects computers over a geographical distance through a shared communication path over a city, town, or metropolitan area.

This network mainly uses FDDI, CDDI, and ATM as the technology with a range from 5km to 50km.

Its transmission speed is average. It is difficult to maintain and it comes with a high cost. Examples of MAN are networking in towns, cities, a single large city, a large area within

multiple buildings, etc





### 4. Wide Area Network

A wide-area network (WAN) is a collection of local-area networks (LANs) or other networks (MAN) that communicate with one another. A WAN is essentially a network of networks, with the Internet the world's largest WAN.

A Wide Area Network (WAN) is a telecommunications network that spans a large geographical area, connecting multiple Local Area Networks (LANs) and other networks. It's like a network of networks, enabling communication and data sharing between geographically dispersed locations, such as different branches of a company or even across countries.

