

# NETWORKING: EXPLORING THE IMPACT AND BENEFITS OF NETWORKING

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Definition

# INTRODUCTION: UNDERSTANDING THE IMPORTANCE OF NETWORKING

is to the process of maintaining relationships with individuals or groups in order to exchange information, resources, and opportunities.

Types of Networking

There are various types of networking, including social networking, professional networking, and industry-specific networking.

Benefits of Networking



Networking offers numerous benefits, such as access to new opportunities, knowledge sharing, and professional growth.

An aerial night view of a city skyline with glowing network lines connecting various points across the city. The lines are yellow and green, creating a web-like pattern over the city lights. The sky is dark with some clouds.

# TYPES OF NETWORKS

- **Local Area Network (LAN)**

A LAN connects devices within a limited geographical area.

- **Wide Area Network (WAN)**

A WAN spans a large geographical area and connects multiple LANs.

- **Metropolitan Area Network (MAN)**

A MAN covers a city or metropolitan area.

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# Network Topologies

## STAR TOPOLOGY

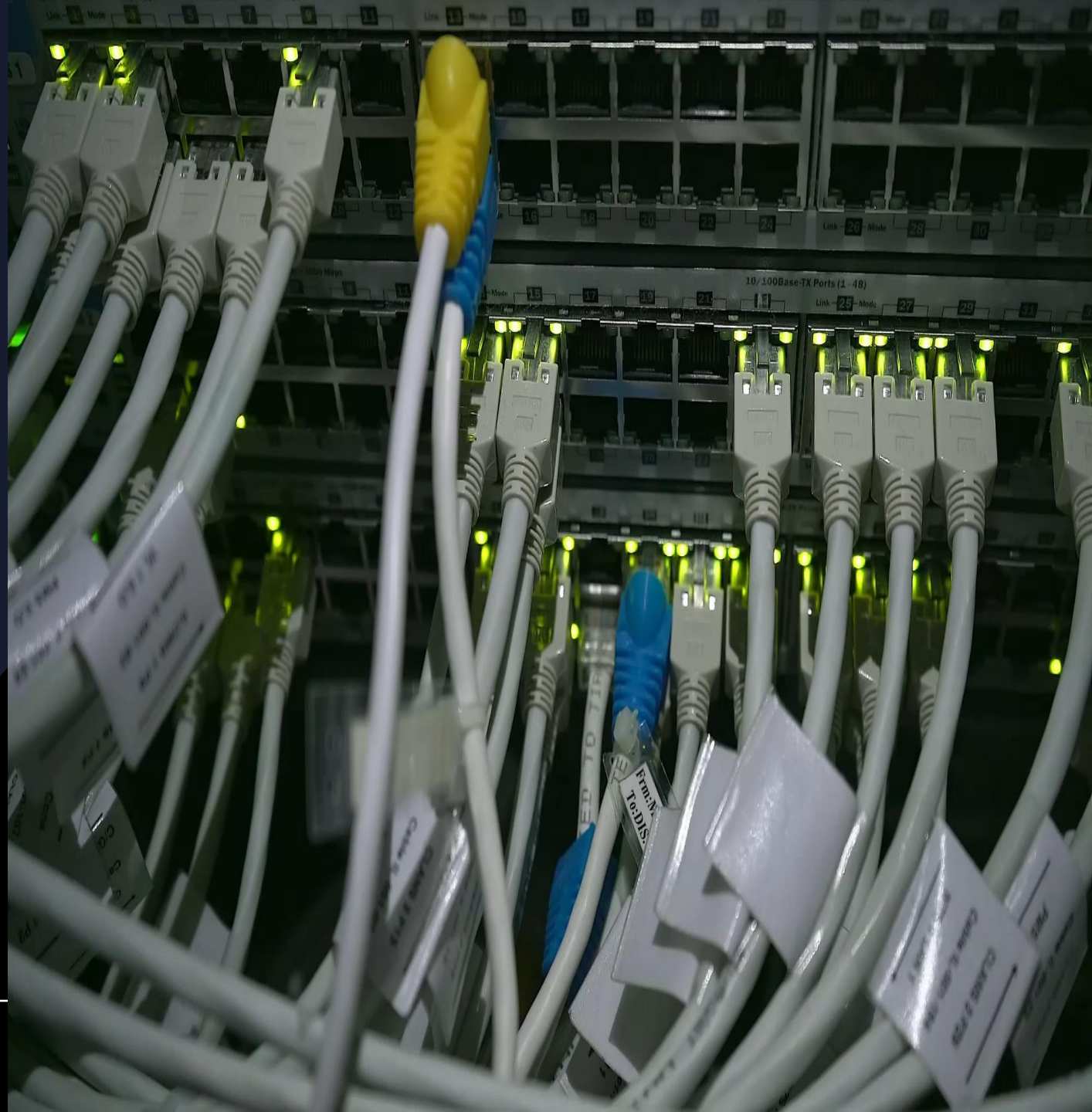
All devices are connected to a central hub or switch.

## BUS TOPOLOGY

All devices are connected to a single cable.

## RING TOPOLOGY

Devices are connected in a circular loop.



# Network Protocols

## TCP/IP

The most widely used network protocol suite.

## HTTP

Used for web communication and browsing.

## FTP

Used for file transfer between devices.



# Internet And Intranet



## Internet

A global network of interconnected devices and networks.



## Intranet

A private network accessible only to authorized users.



## Key differences

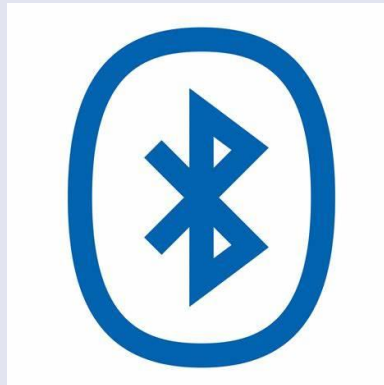
Internet is public, while intranet is private.

# Wireless Networking



## Wi-Fi

Enables wireless access to networks.



## Bluetooth

Used for short-range wireless communication.



## Mobile Networks

Enable wireless communication via cellular networks.

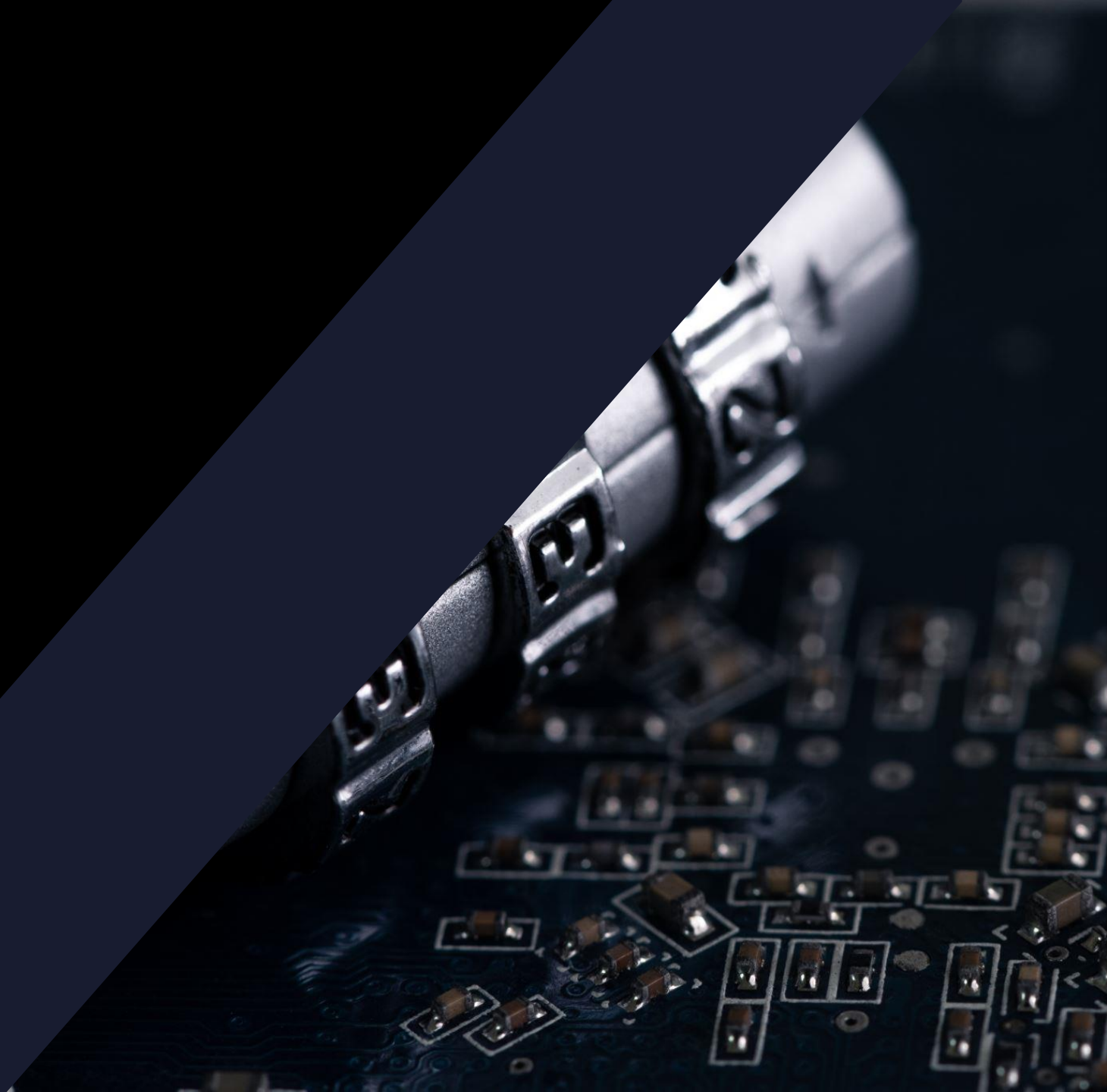
# NETWORK SECURITY

- **FIREWALLS:**

Protect Networks From Unauthorized Access.

- **ENCRYPTION:**

Secures Data Transmission And Storage.





# EMERGING TECHNOLOGIES IN NETWORKING

- Internet of Things: Connects everyday objects to the internet.
- Artificial Intelligence (AI): Enables intelligent decision-making in networks.
- Software-Defined Networking (SDN): It virtualize physical network connection.





# Conclusion

Effective networking is a powerful tool that can accelerate your professional growth, open doors to opportunities, and foster lasting relationships. Start building your network today!