

Learn Basic Computer Networking Concepts: What Computer Network Is And What Are

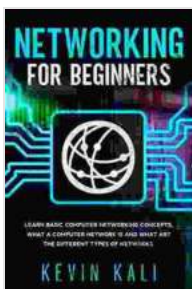
A computer network is a group of computers that are connected together so that they can share resources and communicate with each other. The most common type of computer network is a local area network (LAN), which connects computers in a single location, such as a home or office. Other types of computer networks include wide area networks (WANs), which connect computers over a large geographic area, and metropolitan area networks (MANs), which connect computers in a single metropolitan area.

There are many different types of computer networks, each with its own unique purpose and set of features. Some of the most common types of computer networks include:

- **Local area networks (LANs):** LANs are the most common type of computer network, and they are typically used to connect computers in a single location, such as a home or office. LANs can be wired or wireless, and they can be used to share resources such as files, printers, and internet access.
- **Wide area networks (WANs):** WANs are used to connect computers over a large geographic area, such as a country or continent. WANs can be used to connect businesses, schools, and other organizations, and they can be used to share resources such as files, email, and video conferencing.
- **Metropolitan area networks (MANs):** MANs are used to connect computers in a single metropolitan area, such as a city or town. MANs

can be used to provide high-speed internet access, and they can also be used to connect businesses, schools, and other organizations.

Computer networks work by using a set of protocols, which are rules that govern how computers communicate with each other. The most common set of protocols used for computer networks is the Transmission Control Protocol/Internet Protocol (TCP/IP) suite. TCP/IP is a set of four protocols that work together to ensure that data is transmitted and received correctly.



Networking for Beginners: Learn Basic Computer Networking Concepts, What A Computer Network Is And What Are The Different Types Of Networks.

by Kevin Kali

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When a computer sends data over a network, the data is first broken down into smaller pieces called packets. Each packet is then sent to the destination computer, where it is reassembled into the original data. The TCP/IP suite ensures that the packets are sent in the correct order and that they are not lost or corrupted during transmission.

Computer networks offer a number of benefits, including:

- **Resource sharing:** Computer networks allow users to share resources such as files, printers, and internet access. This can save businesses and organizations money and time.
- **Communication:** Computer networks allow users to communicate with each other using email, instant messaging, and video conferencing. This can improve collaboration and productivity.
- **Remote access:** Computer networks allow users to access files and applications from any location. This can be useful for employees who work from home or who travel frequently.
- **Security:** Computer networks can be used to protect data and resources from unauthorized access. This can help businesses and organizations protect their sensitive data.

Computer networks are a powerful tool that can be used to improve productivity, collaboration, and security. If you are not already using a computer network, I encourage you to learn more about the different types of computer networks and how they can benefit you.



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