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 Computer communications and networks are essential for modern life. We use them to communicate with each other, to access information and entertainment, and to run our businesses.

# USES OF COMPUTER COMMUNICATIONS

Computer communications can be used for a variety of purposes, including:

Communication: Computer communications allow us to communicate with each other over long distances using email, instant messaging, and video conferencing.

Information and entertainment: Computer communications allow us to access information and entertainment from around the world, such as news, weather, music, and movies.

Business: Computer communications allow businesses to communicate with customers and suppliers, to conduct transactions, and to manage their operations.

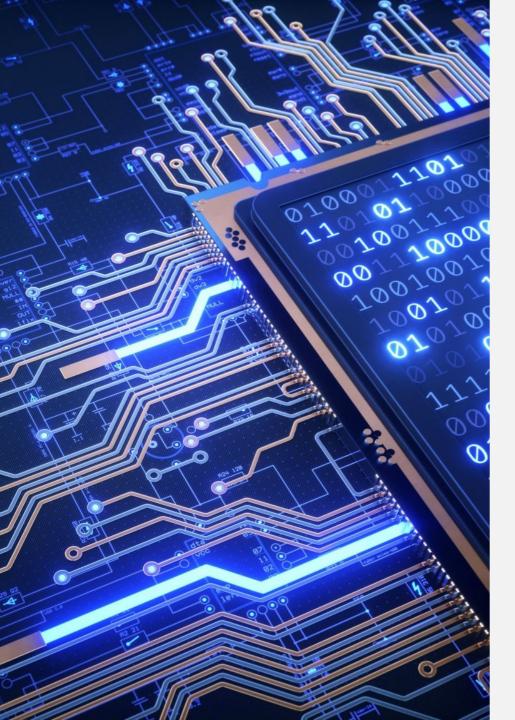




## COMMUNICATION SOFTWARE & DEVICES

Communication software and devices are essential for computer communications. Some common communication software applications include:

- Email: Email is a widely used software application for sending and receiving electronic messages.
- Instant messaging: Instant messaging (IM) is a software application that allows users to communicate with each other in real time.
- Video conferencing: Video conferencing is a software application that allows users to have video conversations with each other.



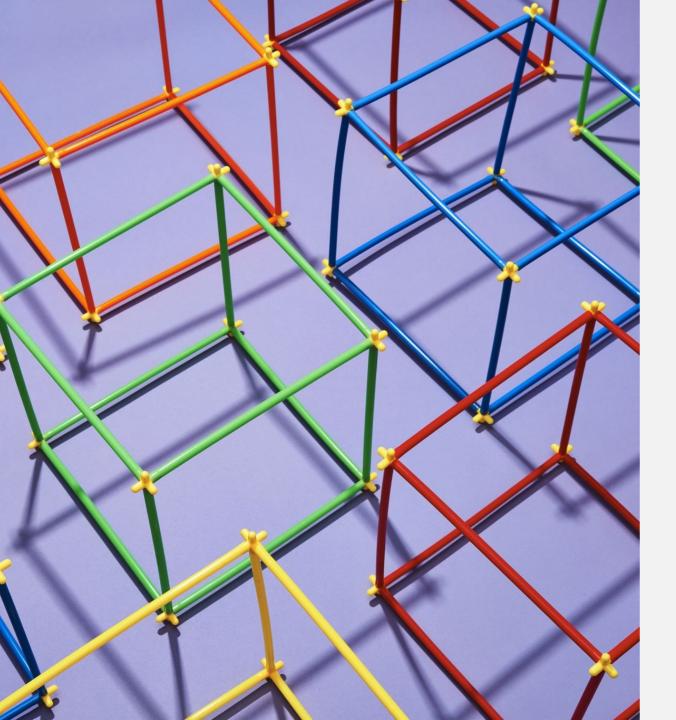
## SOME COMMON COMMUNICATION DEVICES INCLUDE

- Modems: Modems are devices that convert digital signals from computers into analog signals that can be transmitted over telephone lines.
- Routers: Routers are devices that connect multiple networks together.
- Switches: Switches are devices that connect multiple devices on the same network together.

### HOME NETWORKS

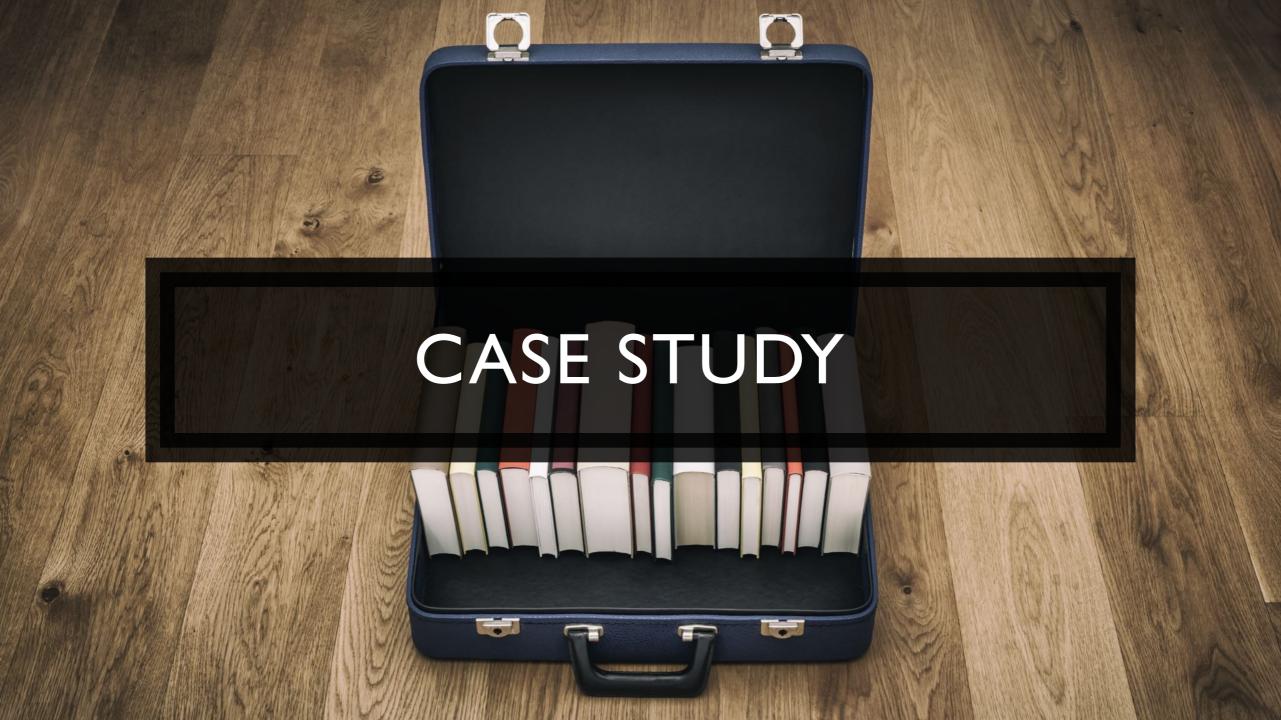
Home networks are becoming increasingly common as more and more devices in our homes are connected to the internet. Some common devices that are connected to home networks include:

- Computers: Computers are essential for accessing the internet and other online resources.
- Smartphones and tablets: Smartphones and tablets are portable devices that can be used to access the internet, check email, and use social media.
- Smart TVs and streaming devices: Smart TVs and streaming devices allow users to watch streaming video content, such as Netflix and Hulu.
- Smart home devices: Smart home devices, such as thermostats and light bulbs, can be controlled remotely using a smartphone or computer.



### CONCLUSION

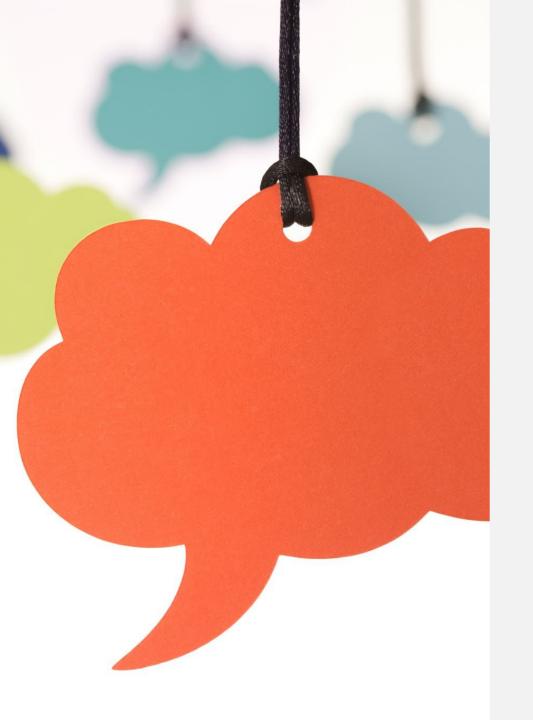
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## CASE STUDY 1: COMMUNICATION SOFTWARE & DEVICES SCENARIO:

 A company needs to implement a new communication system for its employees.
 The system should allow employees to communicate with each other easily and efficiently, regardless of their location.



### **QUESTION**

 Question: What are some of the benefits of using a cloudbased video conferencing system for business communication?



#### **ANSWER**

Cloud-based video conferencing systems offer a number of benefits for business communication, including:

- Easy to use: Cloud-based video conferencing systems are typically easy to use and require no special hardware or software.
- Affordable: Cloud-based video conferencing systems are typically more affordable than traditional on-premises video conferencing systems.
- Scalable: Cloud-based video conferencing systems are scalable, meaning that they can easily be scaled up or down to meet the needs of your business.
- Accessible from anywhere: Cloud-based video conferencing systems can be accessed from anywhere with an internet connection.

### CASE STUDY 2: HOME NETWORKS SCENARIO:

• A family has recently purchased a new smart TV. The family wants to connect the smart TV to their home network so that they can watch streaming video content.



### **QUESTION**

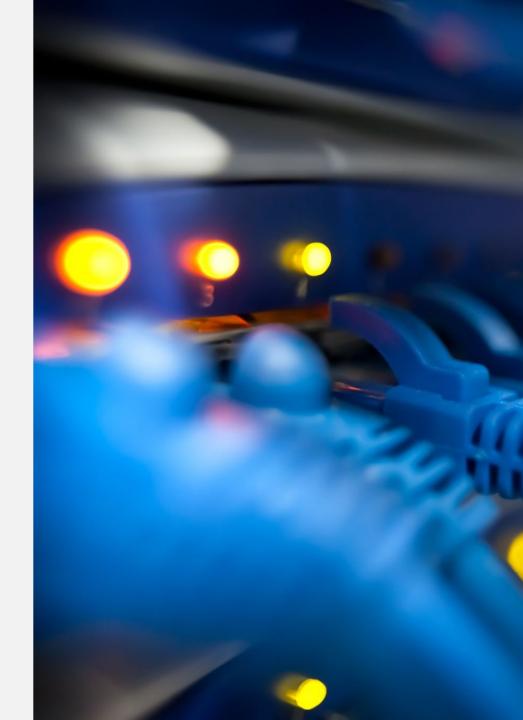
Question: What are some of the different ways to connect a smart TV to a home network?



#### **ANSWER**

There are a number of different ways to connect a smart TV to a home network, including:

- Wireless Ethernet: Wireless Ethernet adapters allow smart
  TVs to connect to home networks wirelessly.
- Ethernet cable: Ethernet cables can be used to connect smart TVs to home networks directly.
- Powerline adapter: Powerline adapters allow smart TVs to connect to home networks using existing electrical wiring.



CASE STUDY 3: USES OF COMPUTER COMMUNICATIONS SCENARIO:

 A student is taking an online course. The student needs to be able to access the course materials and communicate with the instructor and other students.



### QUESTION

• Question: What are some of the different ways that computer communications can be used for education?



#### **ANSWER**

Computer communications can be used for education in a variety of ways, including:

- Access to course materials: Computer communications allow students to access course materials online, such as lecture notes, assignments, and exams.
- Communication with instructors and students: Computer communications allow students to communicate with their instructors and other students online using email, discussion forums, and video conferencing.
- Online learning: Computer communications allow students to take online courses, which can be a convenient and flexible way to learn.



## END

