

Communication Networks chapter 14

14.1 Network Fundamentals

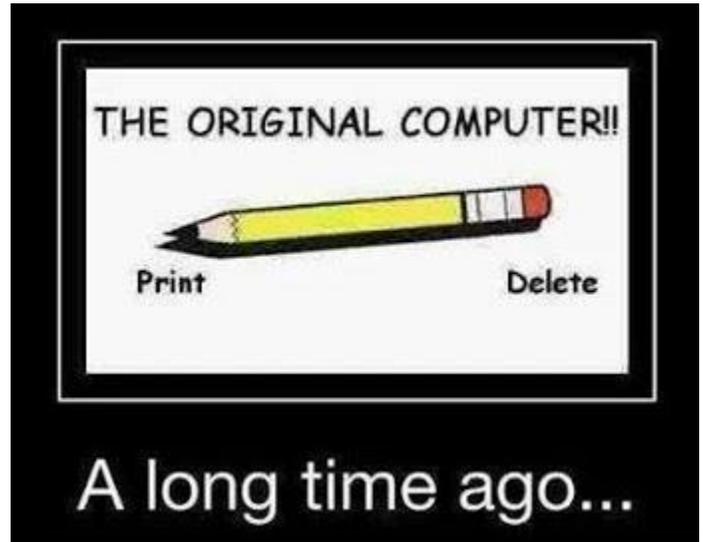
- 6670.69 Investigate networks and their evolution.
- 6670.70 Explain basic networking concepts and different network structures.
- 6670.72 Describe the differences between analog and digital technology.

14.2 Network Topologies

- 6670.70 Explain basic networking concepts and different network structures.
- 6670.71 Compare and contrast peer-to-peer and client/server networks.

14.3 Network Security

- 6670.64 Identify basic security risks inherent to computer hardware and software.
- 6670.65 Describe security best practices for businesses.
- 6670.70 Explain basic networking concepts and different network structures.
- 6670.80 Assess the impact and value of available firewalls and intrusion detection systems (IDS).



Vocabulary:

- Analog
- Bandwidth
- Client
- Digital
- Ethernet
- Host
- Hotspot
- Hub
- Network adapter
- Open systems Interconnection (OSI) model
- Ports
- Router
- Sampling
- Switch
- Wired Equivalent Privacy (WEP)
- Transmission rate
- Wi-Fi
- Bus topology
- Daisy chain topology
- Extranet
- Internet area network (IAN)
- Intranet
- Local area network (LAN)
- Mesh topology
- Metropolitan area network (MAN)
- Network topology
- Peer-to-peer (P2P) topology
- Point-to-point topology
- Ring topology
- Star topology
- Tree topology
- Virtual private network (VPN)
- Wide area network (WAN)
- Authentication
- Encryption
- Firewall
- Password
- Wi-Fi Protected Access (WPA)

10 Facts about communication (National Geographic Origins: The Journey of Humankind)

1. In the United States, there are at least 350 different languages spoken
2. American Hobos in the 1930s used Hieroglyphic codes and secret symbols to warn each other of potential dangers in the area and to signify where to find food and shelter
3. Only about 10% of blind Americans know how to read braille
4. At the first Olympics Games in Ancient Greece, it is believed that homing pigeons were used to deliver news of the results to the athletes' hometowns
5. In 2015, a woman in Germany found the oldest known "message in a bottle" dispatched in 1906. Inside was a postcard promising a shilling to the lucky person who returned it. The marine biological association sent her a reward; one old English shilling.
6. In 1995, less than 1% of the earth's population had access to the Internet. Today, that number has grown to more than 40%
7. In order for you to see skywriting messages within a 10-mile radius, each letter needs to be written more than one mile up in the air and be about as tall as the empire state building
8. With the proper training, talking parrots actually have the cognitive ability to develop associations with what they are saying
9. 1907 was an important year in postcard history, the U.S. Post Office finally let people write on the address side of postcards, giving the rise to the divided back period (1907-1915)
10. The Sami people have as many as 1,000 words for reindeer. They refer to different traits like size, shape, & personality.