

Cybersecurity Presentation

- The importance of cybersecurity
- Family
- Friends
- Staying connected

What Is Cybersecurity?

- Cybersecurity is the practice of protecting computers, networks, and data.
- It keeps information safe from attacks, damage, or unauthorized access.
- Similar to locking your doors, cybersecurity protects your digital life.
- Helps prevent identity theft, hacking, and data loss.



Why Cybersecurity Matters

- We rely on technology for school, work, banking, and communication.
- Cyberattacks can steal personal information or money.
- Hackers target companies, hospitals, and everyday people.
- Strong cybersecurity keeps our data safe and systems working.



Types of Cyber Attacks

- Malware
- Phishing
- Social engineering
- Password attacks
- Denial-of-service (DoS) attacks
- Each attack targets different weaknesses in systems or people.



Malware & Ransomware

- Malware is harmful software that damages or steals data.
- Includes viruses, worms, spyware, and ransomware.
- Ransomware locks your files and demands payment.
- Many businesses, hospitals, and cities have been victims.



Phishing & Social Engineering

- Phishing uses fake emails or messages to steal information.
- Messages often look real (banks, schools, companies).
- Social engineering tricks people instead of computers.
- Hackers pretend to be someone trusted to get passwords.



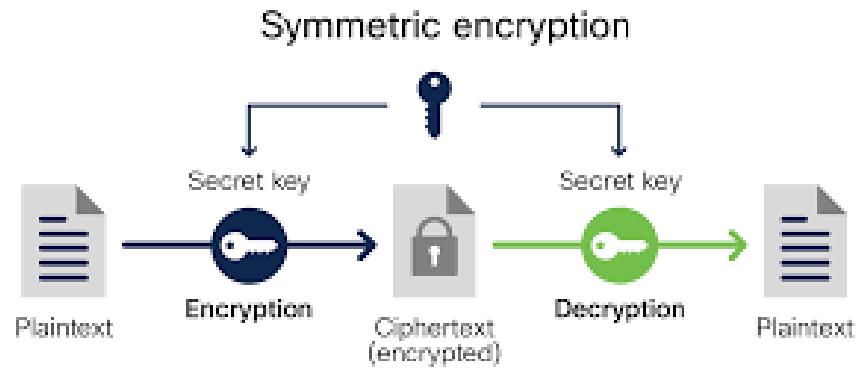
Protection Methods

- Use firewalls and antivirus software.
- Create strong, unique passwords.
- Avoid clicking suspicious links or emails.
- Keep software and devices updated.
- Small habits make a big difference in safety.



Encryption & Authentication

- Encryption turns data into unreadable code for protection.
- Only someone with the correct key can access it.
- Authentication adds extra security layers.
- Examples: passwords, verification codes, and 2-step login.



Firewalls & Network Security

- Firewalls act like security guards for your computer.
- They block harmful traffic and allow safe connections.
- VPNs protect your online activity with encrypted tunnels.
- IDS/IPS systems detect and stop suspicious behavior.



Cybersecurity Careers

- One of the fastest-growing job fields today.
- Roles include security analyst, penetration tester, and forensic analyst.
- Careers focus on protecting systems and responding to threats.
- Many jobs offer strong pay and high job security.



Certifications & Skills

- Helpful certifications: Security+, CEH, CISSP.
- Builds knowledge in networks and security.
- Important skills: problem-solving, communication, and attention to detail.
- Certifications help beginners enter the field.

Conclusion

- Cybersecurity protects our information and digital lives.
- Understanding threats helps us stay safe online.
- Simple habits and strong security tools prevent most attacks.
- Cybersecurity is an important field with many career opportunities.