# Week 1: Introduction to Cybersecurity

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## 📘 Summary of Learning Content:

- Cybersecurity means protecting systems, networks, and data from digital threats like unauthorized access or cyberattacks.

- It is a multidisciplinary field with 8+ domains and 25+ subdomains including offensive, defensive, cloud, forensics, legal, and governance areas.

## 🛡️ Key Domains in Cybersecurity:

* Red Team (Offensive Security)
* - Simulates real cyberattacks
* - Includes penetration testing, exploit development, social engineering
* Blue Team (Defensive Security)
* - Detects and responds to threats in real-time
* - Uses SIEM, threat intelligence, incident response
* DevSecOps & Cloud Security
* - Builds security into development pipelines
* - Focuses on securing AWS, Azure, GCP
* GRC (Governance, Risk & Compliance)
* - Deals with policies, risk assessments, compliance (GDPR, ISO 27001)
* Cybersecurity Law & Policy
* - Covers data privacy laws and cybercrime regulations
* Security Awareness & Training
* - Focuses on phishing simulations, gamified training, user education

## 🔧 Subdomains & Topics

* Red Team Tools:
* - Web app security, mobile security, social engineering, physical security
* Blue Team Tools:
* - SOC & threat monitoring, EDR/XDR, log analysis, IAM, patch management

## ⚠️ Common Myths Busted:

- You don’t need to be a coding expert

- Cybersecurity is not only hacking

- A specific degree isn’t required

- Expensive certifications aren’t necessary to start

## 📚 Platforms and Resources Mentioned:

- Training: TryHackMe, HackTheBox, PicoCTF, Pwn College, Bandit Labs, Udemy

- Bug Bounties & CTFs: HackerOne, BugCrowd, CTFtime

- Communities: Instagram, GitHub, Telegram, LinkedIn