Day 72

Topic: Ethical Hacking Concepts

Objective: To understand the legal and ethical boundaries of hacking and the phases of a penetration test.

Theoretical Concepts:
We defined the difference between White Hat, Black Hat, and Grey Hat hackers. The core of the session was the "Five Phases of Ethical Hacking": 1. Reconnaissance (Information Gathering). 2. Scanning (Enumeration). 3. Gaining Access (Exploitation). 4. Maintaining Access (Persistence). 5. Clearing Tracks. We strictly emphasized the importance of written permission (Scope of Work) before testing any system.

Practical Work:
We reviewed case studies of famous breaches and analyzed where the defense failed. We drafted a sample "Rules of Engagement" document. We also explored the local cyber laws and the Computer Fraud and Abuse Act concepts.

Tools Used: Documentation, Case Studies.

Outcome: Understanding the "Hacker Mindset" and the legal framework governing cybersecurity professionals.