Pentesting Fundamentals

1. What is Penetration Testing:

 There are over 2,200 cyber-attacks every day - 1 attack every 39 seconds.

2. Penetration Testing Ethics:

- White VS Grey VS Black Hat Hackers
- Rules of Engagement

3. Penetration Testing Methodologies:

- Pentesting Stages:
 - Information Gathering
 - Enumeration/Scanning
 - Exploitation
 - Privilege Escalation
 - Post-exploitation
 - 1. What other hosts can be targeted (pivoting)
 - 2. What additional information can we gather
 - 3. Covering your tracks
 - 4. Reporting
 - OSSTMM (The Open-Source Security Testing Methodology Manual)
 - OWASP (Open Web Application Security Project)
 - NIST Cybersecurity Framework 1.1 (National Institute of Standards & Technology)
 - NCSC CAF (National Cyber Security Center Cyber Assessment Framework)

4. Black, White & Grey box Penetration Testing

5. Practical: ACME Penetration Test