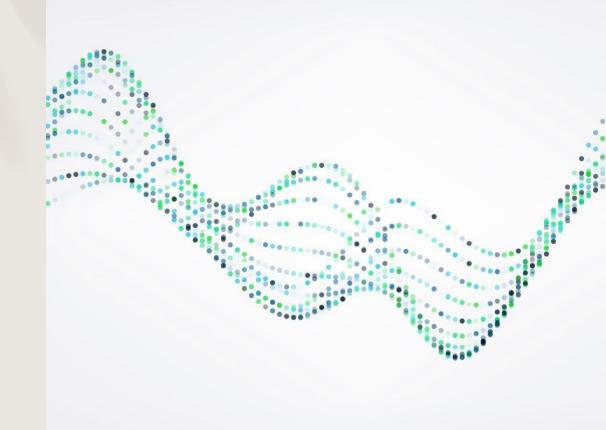
Mini Project: Footprinting & Social Engineering Investigation

- Subtitle: Ethical Hacking & Cybersecurity
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- 2023A7R003
- Cse-CyberSecurity



Objective

Gather Gather passive information about a test organization (OSINT) Develop Develop a social engineering exploit scenario (not executed) Learn Learn how attackers use reconnaissance to plan attacks

Key Topics

- **Footprinting** → Collecting info about targets
- Social Engineering → Tricking humans for access
- OSINT (Open Source Intelligence) → Publicly available info
- **Countermeasures** → Defensive strategies

Tools Used

- Maltego → Visualize relationships (domains, people, infra)
- **Shodan** → Find exposed devices & services
- Google Dorks → Search for hidden/sensitive data
- LinkedIn → Employee information & job roles

OSINT Report (Sample Findings)

- Domains & IPs of target
- Email addresses & employee info
- Open ports & technologies in use
- Social media profiles

Exploit Plan (Example Scenario)

- Target: HR Manager at test organization
- Exploit: Fake job application phishing email
- Payload: Malicious attachment (design only, not executed)
- Goal: Demonstrate how attackers could trick users

Defense Recommendations & Conclusion

- Employee security awareness training
- Limit public exposure of sensitive data
- Use email filtering & firewalls
- Conduct regular penetration tests & OSINT reviews
- Outcome: Learned attacker mindset & preventive measures