PENETRATION TESTING

- Introduction, software installation, Pre-engagement, scoping

- Ethical requirements and legal issues

- Penetration test report structure and components

- Reconnaissance

- DNS, web reconnaissance

- TCP, UDP, connections

- Scanning using nmap

- File transfer protocola: ftp, http, telnet

- SSL and TLS encryption

- NetBIOS and NFS

- Encryption essentials

- Windows passwords, hashes

- Rainbow tables, linux passwords, hashes with salt

- Searching linux and Windows file systems

- Metasploit exploitation framework

- Use of netcat and pivoting

- VOIP

- Wireless networks and encryption

- Lock picking, master keys, and oracle hacks

- Cryptography weaknesses

- Http, javascript, and command injection

- Databases, SQL, SQL injection

- Browser proxies and non-rendered content, cross-site scripting

- Cross-site scripting and cross-site request forgery

- Web authentication and session management

- Mobile device security issues

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