Penetration Testing

Duration 5 Days

COURSE OUTLINE

DAY 1 - INFORMATION GATHERING

- The mindset of a penetration tester.
- Types of penetration tests.
- Limitations of penetration testing.
- How to create a testing infrastructure.
- Defining rules of engagement and scoping a project.
- Reporting
- A pen tester's tool chest of information gathering resources.
- Types of scans - Network sweeps, network tracing, port scans, OS fingerprinting, version scans, and vulnerability scans.
- Network mapping.
- Port scanning
- OS Fingerprinting.
- Vulnerability Scanning.

DAY 2 - GAINING ACCESS

- Exploit categories - server-side, client-side, and local privilege escalation
- Metasploit Framework
- The Metepreter
- Exploit without Metasploit
- Backdooring
- Transferring file techniques
- Windows commandline for penetration tester
- Password attack
- attacks
- Password Guessing with Hydra
- Knowing password format in Windows and Linux
- Dumping Windows Hash
- Offline password attack with John the Ripper
- Cain
- Rainbow table attacks using Ophcrack
- Pass-the-hash

DAY 3 - WIRELESS ATTACK

- Wireless Concepts
- Wireless Encryption Algorithms
- Wireless Threats
- Wireless Hacking Methodology
- Wireless Hacking Tools
- Wireless Security Tools and Penetration Testing

DAY 4 - WEB APPLICATION ATTACK

- Web application scanning and exploitation tools
- Web application manipulation tools
- Injection attacks
- Building a wireless pentest platform

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- Identifying unsecured access points and peer-to-peer systems
- Identifying wireless misconfigurations
- Exploiting various wireless protocols

DAY 5 - MOBILE ATTACK

- Mobile Platform Attack Vectors
- Hacking Android OS
- Hacking iOS
- Mobile Device Security ManagementGuidelines and Tools
- Mobile Pen Testing

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