

Course Introduction

Establishing and maintaining the security of a wireless network can be challenging, and discovering weaknesses before a wireless attacker does is part of that challenge. To meet the needs of IT professionals who want the capability to discover and demonstrate weaknesses in Wi-Fi networks, "Hacking and Hardening your Wireless Network" is the ideal course.

Three days of certified expert instruction and rigorous hands-on, step-by-step labs will prepare students to successfully perform wireless penetration testing for any site or organization. From initial stealth discovery and traffic analysis to defeating standard wireless network protection mechanisms and testing susceptibility to denial-of-service, this thorough course is one-stop shopping in wireless attack training. The latest and greatest wireless hacking tools are discussed in detail by our highly certified instructors.

Course Objectives

- To demonstrate latest tools and technique used by hacker to penetrate wireless system.
- To demonstrate how all popular security schemes such as ESSID (Disable Broadcast SSID), MAC Address Filtering, WEP, WPA can be easily broken.
- To demonstrate the latest state of the art wireless penetration techniques.

Course Highlights

- Wireless Penetration Testing tools provided
- Wireless Card 802.11a,b,g for Penetration Tester
- Real World experience penetration testing from Instructor
- Free ACIS Resource Center membership
 - Access latest information from instructor
 - Consulting from instructor

Learning Level

- Advanced

Course Duration

- 3 Days (18 Hours)

Prerequisites

- It is expected that attendees are familiar with the Linux operating system and have a good understanding on wireless technologies prior to enrolling for this course

Target Group

- This course target anyone with an interest in wireless penetration techniques but the main focus is for consultant or administrators seeking further knowledge with advance wireless security

Course Outline

Module1 Wireless LAN Network Discovery

- Wireless LAN Scanning Techniques
 - Active Scan
 - Passive Scan
- RF Mapping and Analysis
 - Wireless coverage area
 - Antenna
 - Interferences
- Wireless LAN Information Disclosed
 - Access Points
 - Broadcast SSID
 - Not Broadcast SSID
 - Infrastructure
 - Wireless Clients
 - Authorized MAC Addresses
 - Security Options
- LABS:
 - Active Scanning Tools
 - Passive Scanning Tools
 - Site Survey Tools
 - Spectrum Analyzer Tools
 - Using WiFi Jammer

Module 2 WEP, WPA/WPA2-PSK Cracking

- WEP Cracking
 - The standard FMS attack
 - The KoreK attack
 - The PTW attack
- WPA/WPA2-PSK (Pre-shared key) Cracking

- Capture EAPOL handshake
- Dictionary Attack
- Introduction to use GPU power for Key Cracking
- LABS:
 - WEP Cracking
 - WPA2 Cracking using NVIDIA CUDA

Module 3 Authentication Attack

- Lightweight Extensible Authentication
 - Dictionary Attack on Cisco LEAP
- Hotspot Attack
- LABS
 - ASLeap
 - The LEAP Cracker
 - Hotspot Advance Techniques

Module 4 Frame Generation Software

- Create Rogue AP for network probing
- LABS:
 - KARMA (Rogue Service)
 - Airpwn

Module 5 Wireless LAN IDS/IPS

- Wireless Denied of Services
 - CSMA/CA Media Access Attack
 - Beacon Flooding
 - Deauthentication/Disassociation Flooding
- WIPS/WIPS
 - Denied of Services using MDK3
 - WIPS
 - Snort-Wireless
 - AirMagnet
- AirDefense

Recommended Course

- PEN : Professional Penetration Testing Techniques and Vulnerability Assessment

สำรองที่นั่งและขอรับรายละเอียดเพิ่มเติมกรุณาติดต่อ (FOR MORE INFORMATION & REGISTRATION PLEASE CONTACT)

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