

Art of Exploitation: Wireless Edition



Developing Tomorrow's Security Experts Today.

The Art of Exploitation Wireless Edition is designed to provide the Computer Security Practitioner with the skills and knowledge required to perform wireless security assessments, and wireless exploitation.

The tactics, techniques, and procedures are designed to provide real-life examples of how security is compromised and data is extracted in today's wireless environment. By focusing primarily on the discovery and exploitation of Wireless Networks, "Art of Exploitation Wireless Edition," provides a unique training experience not found in other commercial wireless security courses.

"Art of Exploitation Wireless Edition" is a five-day, intense course of study that provides a comprehensive view into the methods and mindset used by hackers to compromise wireless networks. Like all Art of Exploitation courses, the class provides numerous hands-on experiences during labs.

Modules

- Overview
- Methodology
- Reconnaissance
- Wireless Analysis
- Wireless Attack Techniques
- Emerging Technologies

Module Descriptions: Wireless Edition

Suggested Prerequisite Knowledge

- Linux command line experience
- Basic 802.11 networking and theory
- understanding of TCP/IP

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Overview

Provides a brief overview of the 802.11 protocol. Discusses the 802.11 packet structure, hardware, and software used commercially for wireless computer network operations.

Methodology

Covers recommended preparation steps that an operator or team should conduct prior to commencement of a wireless operation. Topics include wireless assessment methodology, goals to consider for wireless operations, steps taken to perform a site survey, and building an operational plan.

Reconnaissance

This module covers basic wireless tool usage; detailed site survey steps; configuring a computer for the conduct of wireless operations; installing and operating various type of wireless tools; how to conduct a wireless survey, and wireless network mapping.

Wireless Analysis

Teaches the student techniques and methods with which to analyze survey results in order to formulate an operational plan. Topics include the use of various log parsing and mapping tools and in-depth analysis of various packet captures in order to determine potential targets, their specific information, and possible vulnerabilities.

Emerging Wireless Technologies

This module discusses non-802.11 wireless technologies such as Bluetooth, Blackberry, and EVDO, and discusses various methods that can be used for exploitation.



Labs and Practical Application

As with the Art of Exploitation Bootcamp, the AOE Wireless Edition has many hands-on labs throughout each module that allow the students ample opportunity to try and test the tools, techniques, and methods that are discussed, under instructor guidance and supervision.