

GIAC Assessing and Auditing Wireless Networks



Online Course

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GIAC Assessing and Auditing Wireless Networks

Course Modules

1. 802.11 Fuzzing Attacks

Basic fuzzing attacks.

2. Attacking Weak Encryption

Familiar with weak encryption methods including WEP and how to attack and secure them.

3. Bluetooth Attacks

Familiar with the structure, uses and weaknesses of Bluetooth.

4. Bluetooth Low Energy Attacks

Demonstrate understanding of how changes to Bluetooth Low Energy affect security, & methods to test, inspect, & audit Bluetooth Low Energy data in transit.

5. Bridging the Air Gap

Compromised wireless system to further compromise a wired network.



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6. DoS on Wireless Networks

Perform and defend against common DoS attacks.

7. High-Frequency RFID Attacks

Demonstrate understanding of RFID tracking techniques, and how to exploit mid to long-range RFID applications.

8. Hotspots

Familiar with the identification and auditing of hotspots.

9. Low-Frequency RFID Attacks

Demonstrate understanding of short-range, Low Frequency (LF) RFID attacks, including impersonation and cloning of Low-Frequency RFID tags.

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10. NFC

Demonstrate understanding of Near Field Communications (NFC) & how it uses consistent data protocols to exchange data bidirectionally for uses in payment systems, and generic data transfers.



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11. Practical SDR Attacks

Familiar with the common implementations of wireless protocols & how SDR projects can identify failures in the overall implementation of those protocols.

12. Rogue Networks

Understand how to identify and protect against rogue networks.

13. Sniffing Wireless

Capable of capturing wireless traffic.

14. Wireless Basics

Familiar with common wireless threats as well as current wireless network standards.

15. Wireless Client Attacks

Demonstrate understanding of wireless client vulnerabilities, including hotspot injection, weaknesses in wireless client segmentation or public secure packet forwarding, and the preferred network list on client systems.



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16. WPA Variants

Familiar with WPA Variants including how to attack and secure it.

17. Zigbee

Familiar with Zigbee including how to attack and secure it.

The logo for Zetlan Technologies features a large, stylized, light gray letter 'Z'. To the left of the 'Z', there are three light gray circles of varying sizes, arranged in a cluster. Below the 'Z' and circles, the text 'Zetlan Technologies' is written in a light gray, sans-serif font.

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The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.



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