



BOOK

# Malware Development for Ethical Hackers

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By [Zhassulan Zhussupov](#)

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TIME TO COMPLETE:  
8h 8m

LEVEL:  
Beginner

SKILLS:  
[Malware](#)

PUBLISHED BY:

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390 pages

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**Packed with real-world examples, this book simplifies cybersecurity, delves into malware development, and serves as a must-read for advanced ethical hackers**

## Key Features

- Learn how to develop and program Windows malware applications using hands-on examples
- Explore methods to bypass security mechanisms and make malware undetectable on compromised systems
- Understand the tactics and tricks of real adversaries and APTs and apply their experience in your operations
- Purchase of the print or Kindle book includes a free PDF eBook

## Book Description

Malware Development for Ethical Hackers is a comprehensive guide to the dark side of cybersecurity within an ethical context.

This book takes you on a journey through the intricate world of malware development, shedding light on the techniques and strategies employed by cybercriminals. As you progress, you'll focus on the ethical considerations that ethical hackers must uphold. You'll also gain practical experience in creating and implementing popular techniques encountered in real-world malicious applications, such as Carbanak, Carberp, Stuxnet, Conti, Babuk, and BlackCat ransomware. This book will also equip you with the knowledge and skills you need to understand and

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details of programming, evasion techniques, persistence mechanisms, and more.

## What you will learn

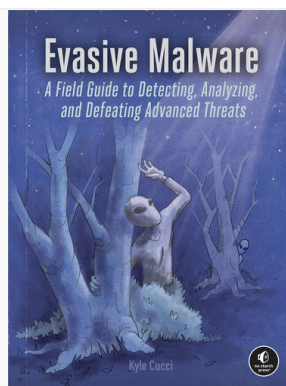
- Familiarize yourself with the logic of real malware developers for cybersecurity
- Get to grips with the development of malware over the years using examples
- Understand the process of reconstructing APT attacks and their techniques
- Design methods to bypass security mechanisms for your red team scenarios
- Explore over 80 working examples of malware
- Get to grips with the close relationship between mathematics and modern malware

## Who this book is for

This book is for penetration testers, exploit developers, ethical hackers, red teamers, and offensive security researchers. Anyone interested in cybersecurity and ethical hacking will also find this book helpful.

Familiarity with core ethical hacking and cybersecurity concepts will help you understand the topics discussed in this book more easily.

## You might also like

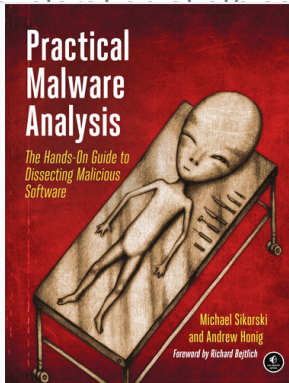


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**With ACI Learning, Daniel Lowrie and Sophie Goodwin**

The course begins with fundamental cybersecurity concepts, paving the way for an extensive

We're all aware of Stuxnet, ShadowHammer,... Sunburst, and similar attacks that use evasion to remain hidden while defending themselves from



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## Practical Malware Analysis

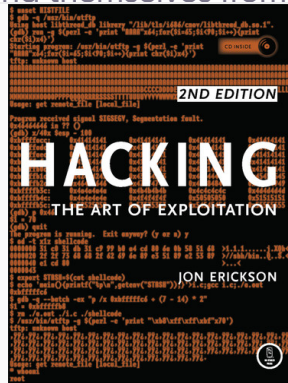
**By Michael Sikorski and Andrew Honig**

For those who want to stay ahead of the latest malware,... Practical Malware Analysis will teach

you the tools and techniques used by professional analysts. efficiently. The course

shifts its focus as **About the Publisher**

Packt helps real-world developers put software to work in new ways with over 7,500 practical books and videos covering over 1,000 technologies. With coverage **More about Packt Publishing** ranging from introductory programming to new and emerging technologies, as well as expert advice from



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## Hacking: The Art of Exploitation, 2nd...

**2nd Edition** by Erickson

Hacking is the art of creative problem solving, whether th... means finding an unconventional solution to a difficult problem

or exploiting holes in static and dynamic sloppy programming. code analysis to un- Many people call cover malware's true themselves hackers, intentions, you'll put few have the learn how malware weaponizes context tactical books and videos awareness to detect to. With cover the en- and skirt virtual ma- vermine. Rather than chines and sand- merely showing how boxes, plus the vari-

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ances of threat hunting, incident handling, and the role of machine learning and AI in cybersecurity. The course also addresses critical aspects of network and web security, including various scanning and enumeration techniques, vulnerability assessments, and countermeasures against common cyber threats. You'll also delve into specialized areas like mobile, IoT, and cloud security. The course concludes with an emphasis on the latest standards and regulations in cybersecurity, preparing you for the CEH certification and real-world cybersecurity challenges. What you will learn

Navigate ethical hacking methodologies and frameworks

Conduct comprehensive network and web security assessments

Develop skills in mobile, IoT, and

work. To share the art of assembly methods and the science of hacking, debugging interfering in a way that is accessible to everyone, Hacking: The Art of Exploitation, 2nd Edition introduces the fundamentals of process injection and C programming from rootkits to fileless malware. Finally, you'll dissect encoded LiveCD provides a complete Linux programming and de-malware obfuscators and packers to implement all without cover the evil within. You'll learn how malware abuses legitimate components of Windows, like the Windows API and LOLBins, to run undetected. Uses environmental quirks and context awareness, your hands dirty delving like CPU timing and debugging code, overhypervisor enumeration, overflowing buffers, hijacking network communications, by-bypasses network passing protections, and endpoint defenses using passive graphic weaknesses, circumvention techniques, like obfuscating and mutating exploits. This book will teach you how to: Program computers and tampering

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and analyze various cyber-attack classifications Implement effective threat hunting and incident management

**Audience** This Certified Ethical Hacker course is designed to strengthen the practical knowledge of security officers, auditors, site administrators, and any professional focused on network security. It's an excellent fit for those responsible for safeguarding network infrastructure and keen to deepen their understanding of ethical hacking. About the Authors ACI Learning: ACI Learning trains leaders in Cybersecurity, Audit, and Information Technology. Whether starting an IT career, mastering a profession, or developing a team, they provide essential support at every step. Daniel Lowrie: Daniel

buffer overflows and building a malware format strings analysis lab and tuning it to better inspect processor registers and system memory with a debugger to gain a real understanding of what is happening

Whether you're a frontline defender, a forensic analyst, a security engineer, or a researcher, like nonexecutable Evasive Malware will stacks and intrusion arm you with the detection systems knowledge and skills Gain access to a remote server using never the stealthy-port-binding or connect-back shellcode, and alter a server's logging behavior to hide your presence Redirect network traffic, conceal open ports, and hijack TCP connections Crack encrypted wireless traffic using the FMS attack, and speed up brute-force attacks using a password probability matrix Hackers are always pushing the boundaries, investigating the unknown, and evolving their art. Even if you don't already know how to program, Hacking:

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tal in North-Central Florida. His journey led him to become an in-classroom trainer and Mentored Learning Instructor, specializing in courses covering Microsoft Windows Desktops and Servers, Active Directory, Networking, CCNA, and Linux. He then transitioned to becoming a Systems and Network administrator for a large insurance company before joining ACI Learning as an Edutainer.

Certifications: CompTIA A+, Network+, Linux+, CySA+, and PenTest+; CEH; MCSA; CFR; eJPT

Sophie Goodwin: Sophie Goodwin is a Voice-Over talent. Her background spans over eight years as a film and voice talent, with experience in eLearning content, independent films, TV & web commercials,

chine architecture, network communications, and existing hacking techniques. Combine this knowledge with the included Linux environment, and all you need is your own creativity.

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at the University of Florida. Apart from her work as an Edutainer, Sophie is also involved in other aspects of the entertainment industry. She is certified in (ISC)² CC: Certified in Cybersecurity.

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