



The Antivirus Hacker's Handbook

By Joxean Koret, Elias Bachaalany

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Hack your antivirus software to stamp out future vulnerabilities

The Antivirus Hacker's Handbook guides you through the process of reverse engineering antivirus software. You explore how to detect and exploit vulnerabilities that can be leveraged to improve future software design, protect your network, and anticipate attacks that may sneak through your antivirus' line of defense. You'll begin building your knowledge by diving into the reverse engineering process, which details how to start from a finished antivirus software program and work your way back through its development using the functions and other key elements of the software. Next, you leverage your new knowledge about software development to evade, attack, and exploit antivirus software—all of which can help you strengthen your network and protect your data.

While not all viruses are damaging, understanding how to better protect your computer against them can help you maintain the integrity of your network.

- Discover how to reverse engineer your antivirus software
- Explore methods of antivirus software evasion
- Consider different ways to attack and exploit antivirus software
- Understand the current state of the antivirus software market, and get recommendations for users and vendors who are leveraging this software

The Antivirus Hacker's Handbook is the essential reference for software reverse engineers, penetration testers, security researchers, exploit writers, antivirus vendors, and software engineers who want to understand how to leverage current antivirus software to improve future applications.

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Editorial Review

From the Back Cover

Hack your own antivirus software for an attacker's-eye look at the holes in your defense

Computer viruses are as contagious as the common cold, but they can be infinitely more destructive. Antivirus software is the best defense, but the quality of these defenses is as varied as the field itself. *The Antivirus Hacker's Handbook* shows you how to hack your own system's defenses to discover its weaknesses, so you can apply the appropriate extra protections to keep your network locked up tight. Authors Joxean Koret and Elias Bachaalany draw on decades of reverse-engineering expertise to teach you how to see your system the way a hacker would — highlighting vulnerabilities and showing you where the next attack is likely to occur.

You'll begin by delving into the core of your antivirus software to learn how it works and where its own vulnerabilities lie. Then you'll exploit those weak defenses to gain a hacker's-eye view of your own system as you learn to evade, attack, and exploit antivirus software to gain "unauthorized" access to your network and data. When hackers reach this stage of the game, they can install malware that accesses sensitive information, monitor what the user is doing, and steal or corrupt documents and data. When *you* reach this stage, you'll have a thorough understanding of the holes in your defense strategy and the knowledge you need to make them impenetrable.

Learn to:

- Reverse-engineer your antivirus software from the inside out
- Understand the plug-ins system and antivirus signatures
- Work your way around antivirus measures to strengthen your network
- Evade signatures, scanners, and heuristic engines
- Conduct static and dynamic analyses
- Exploit local and remote exploit techniques
- Discover the latest antivirus trends and recommendations

About the Author

JOXEAN KORET is a security researcher at Coseinc, a Singapore-based security services firm. He is an in-demand speaker at international security conferences, and a well-regarded specialist in reverse-engineering, vulnerability research, and malware analysis.

ELIAS BACHAALANY is a computer programmer, reverse engineer, and technical writer employed by Microsoft. An authority in multiple programming languages, database design, and web development, he played an instrumental role in the IDAPython project and IDA Pro's scripting facilities development.

Users Review

From reader reviews:

Jennifer Carter:

Why don't make it to be your habit? Right now, try to prepare your time to do the important take action, like looking for your favorite e-book and reading a publication. Beside you can solve your condition; you can add your knowledge by the book entitled The Antivirus Hacker's Handbook. Try to make book The Antivirus Hacker's Handbook as your good friend. It means that it can to get your friend when you sense alone and beside those of course make you smarter than ever before. Yeah, it is very fortunated to suit your needs. The book makes you far more confidence because you can know everything by the book. So , let me make new experience along with knowledge with this book.

Kara Corbett:

Spent a free time for you to be fun activity to try and do! A lot of people spent their spare time with their family, or their friends. Usually they performing activity like watching television, likely to beach, or picnic from the park. They actually doing same task every week. Do you feel it? Do you need to something different to fill your own free time/ holiday? May be reading a book is usually option to fill your free of charge time/ holiday. The first thing that you'll ask may be what kinds of e-book that you should read. If you want to consider look for book, may be the guide untitled The Antivirus Hacker's Handbook can be excellent book to read. May be it can be best activity to you.

James Dungan:

In this era which is the greater man or who has ability to do something more are more precious than other. Do you want to become considered one of it? It is just simple method to have that. What you are related is just spending your time little but quite enough to experience a look at some books. Among the books in the top collection in your reading list is actually The Antivirus Hacker's Handbook. This book which can be qualified as The Hungry Mountains can get you closer in becoming precious person. By looking upwards and review this publication you can get many advantages.

Marvin Davidson:

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