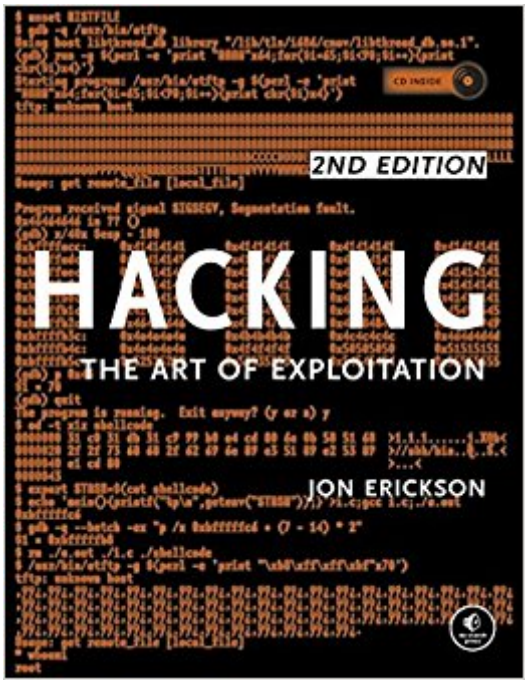
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Hacking: The Art Of Exploitation, 2nd Edition



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Synopsis

Hacking is the art of creative problem solving, whether that means finding an unconventional solution to a difficult problem or exploiting holes in sloppy programming. Many people call themselves hackers, but few have the strong technical foundation needed to really push the envelope.Rather than merely showing how to run existing exploits, author Jon Erickson explains how arcane hacking techniques actually work. To share the art and science of hacking in a way that is accessible to everyone, Hacking: The Art of Exploitation, 2nd Edition introduces the fundamentals of C programming from a hacker's perspective.The included LiveCD provides a complete Linux programming and debugging environmentÃ¢â ¬â •all without modifying your current operating system. Use it to follow along with the book's examples as you fill gaps in your knowledge and explore hacking techniques on your own. Get your hands dirty debugging code, overflowing buffers, hijacking network communications, bypassing protections, exploiting cryptographic weaknesses, and perhaps even inventing new exploits. This book will teach you how to:Ã¢â ¬â œ Program computers using C, assembly language, and shell scriptsÃ¢â ¬â œ Corrupt system memory to run arbitrary code using buffer overflows and format stringsÃ¢â ¬â œ Inspect processor registers and system memory with a debugger to gain a real understanding of what is happeningÃ¢â ¬â œ Outsmart common security measures like nonexecutable stacks and intrusion detection systemsÃ¢â ¬â œ Gain access to a remote server using port-binding or connect-back shellcode, and alter a server's logging behavior to hide your presenceÃ¢â ¬â œ Redirect network traffic, conceal open ports, and hijack TCP connectionsÃ¢â ¬â œ Crack encrypted wireless traffic using the FMS attack, and speed up brute-force attacks using a password probability matrixHackers are always pushing the boundaries, investigating the unknown, and evolving their art. Even if you don't already know how to program, Hacking: The Art of Exploitation, 2nd Edition will give you a complete picture of programming, machine architecture, network communications, and existing hacking techniques. Combine this knowledge with the included Linux environment, and all you need is your own creativity.

Book Information

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Customer Reviews

"A security professional’s paradise, burrowing down to the code level of dozesn of different loopholes and explaining the underlying logic behind the attacks."Ã¢â ¬â •Wired

Jon Erickson has a formal education in computer science and speaks frequently at computer security conferences around the world. He works as a cryptologist and security specialist in Northern California.

I have a background long ago in programming and did have to work through the first programming chapter, but if you stick it out the knowledge of C, X86 Architecture and Assembly Language is worth the work. Running the Linux distribution in a VM environment provides flawless execution and 98% of the examples work right out of the book. Some differences result from how your account is setup but it is still logical and the differences can be understood by digging a little deeper. The author has a great teaching style and working through the examples gives you the practical experience to gain confidence with each passing exercise. Many of the books in this category only get you so far and then seem to jump ahead in knowledge without providing the tools to make the leap.This book builds from page 1 and if you take the time to work through the examples it will provide the foundation you need to move forward. As always you may need to look up and review concepts with an Internet search to expand your knowledge but everything is in the book you need to actually learn how things work beyond just writing scripts and code.

One of the best books I’ve read in a while! It’s the perfect book for those who want to learn it all!

This is an excellent deep dive into the wonderful world of programming and computers. Whenever I make a new acquaintance who is interested in programming, I give them a copy of this book.I

purchased this book for a former co-worker before we fired him so that he could learn more about Linux and programming with the hopes that in the near future we could re-hire him and he would be able to handle his workload.If you've got an itch for programming, Jon Erickson will make it much worse.

Good book, easy to read and good examples to follow!

if you what to get familiar with how computers work and what is is to be a true hacker, you should definetly read this book

Good book on hacking.

On page 7 alone we encounter the words 'esoteric', 'arcane', 'intuitive', 'mitigated', and 'nebulous'.A computer science book that treats English with all the observance and precision a programmer would exercise in the coding of 'elegant' syntax.Whether you are an IT professional or just a curious onlooker -- if you are a reader able to appreciate an author's skillful demystification of dense and challenging subject matter, you are sure to find pleasure in these pages.Jon Erickson has bid the world a book to be proud of. Five stars and a (black) hat off!

It talks about lots of different stuff, which I personally liked, due to my none experience in hacking or programming...etc. This book has all the basic things you need to get you feet wet! :) I recommend this book for beginners and those who have experience.

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