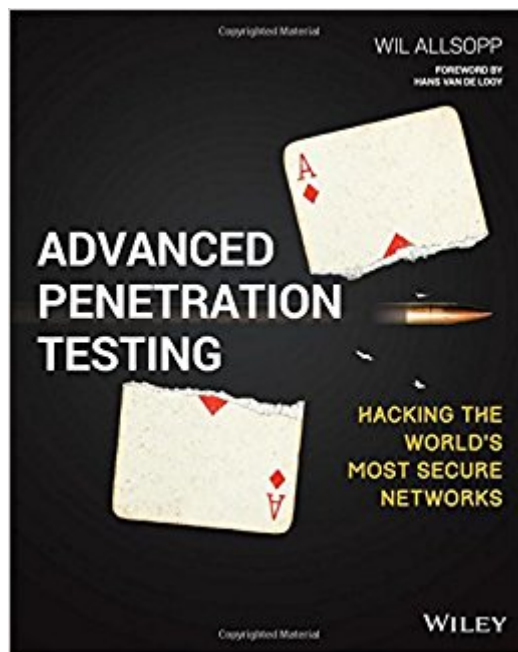




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# Advanced Penetration Testing: Hacking The World's Most Secure Networks



## Synopsis

Build a better defense against motivated, organized, professional attacks Advanced Penetration Testing: Hacking the World's Most Secure Networks takes hacking far beyond Kali linux and Metasploit to provide a more complex attack simulation. Featuring techniques not taught in any certification prep or covered by common defensive scanners, this book integrates social engineering, programming, and vulnerability exploits into a multidisciplinary approach for targeting and compromising high security environments. From discovering and creating attack vectors, and moving unseen through a target enterprise, to establishing command and exfiltrating dataâ "even from organizations without a direct Internet connectionâ "this guide contains the crucial techniques that provide a more accurate picture of your system's defense. Custom coding examples use VBA, Windows Scripting Host, C, Java, JavaScript, Flash, and more, with coverage of standard library applications and the use of scanning tools to bypass common defensive measures. Typical penetration testing consists of low-level hackers attacking a system with a list of known vulnerabilities, and defenders preventing those hacks using an equally well-known list of defensive scans. The professional hackers and nation states on the forefront of today's threats operate at a much more complex levelâ "and this book shows you how to defend your high security network. Use targeted social engineering pretexts to create the initial compromise Leave a command and control structure in place for long-term access Escalate privilege and breach networks, operating systems, and trust structures Infiltrate further using harvested credentials while expanding control Today's threats are organized, professionally-run, and very much for-profit. Financial institutions, health care organizations, law enforcement, government agencies, and other high-value targets need to harden their IT infrastructure and human capital against targeted advanced attacks from motivated professionals. Advanced Penetration TestingÂ goes beyond Kali linux and Metasploit and to provide you advanced pen testing for high security networks.

## Book Information

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## Customer Reviews

HOW TO ESTABLISH AN IMPENETRABLE LINE OF DEFENSE USING EVERYTHING IN THE PROFESSIONAL HACKER'S BAG OF TRICKS Typical penetration testing is highly formulaic and involves little more than time-limited network and application security audits. If they are to have any hope of defending their assets against attacks by today's highly motivated professional hackers, high-value targets will have to do a better job of hardening their IT infrastructures. And that can only be achieved by security analysts and engineers fully versed in the professional hacker's manual of dirty tricks and penetration techniques. Written by a top security expert who has performed hacking and penetration testing for Fortune 100 companies worldwide, *Advanced Penetration Testing: Hacking the World's Most Secure Networks* schools you in advanced techniques for targeting and compromising high-security environments that aren't taught in any certification prep or covered by common defense scanners. Author Wil Allsopp goes well beyond Kali linux and Metasploit to provide a complex, highly realistic attack simulation. Taking a multidisciplinary approach combining social engineering, programming, and vulnerability exploits, he teaches you how to: Discover and create attack vectors Move unseen through a target enterprise and reconnoiter networks, operating systems, and test structures Employ social engineering strategies to create an initial compromise Establish a beachhead and leave a robust command-and-control structure in place Use advanced data exfiltration techniques—even against targets without direct Internet connections Utilize advanced methods for escalating privilege Infiltrate deep into networks and operating systems using harvested credentials Create custom code using VBA, Windows® Scripting Host, C, Java®, JavaScript®, Flash, and more

Wil Allsopp is an IT security expert with 20 years experience, specializing in red team engagements, penetration testing, vulnerability assessment, security audits, secure source code review, social engineering, and advanced persistent threats. He has performed ethical hacking and penetration testing for numerous Fortune 100 companies.

WELL DONE SIR.

This is the best red team book I have read in a long time. I highly recommend this book for pen testers and DFIR team members.

Awesome book!

Really refreshing book on the subject. Definitely worth a read if you are interested or involved in the industry.

This book is definitely offers a new perspective for its readers. However the Kindle version has really bad formatting when it comes to the source codes and I had to refund it to buy the paperback version.

Bought yesterday, can't put it down -- will reread it again this week. This book is a solid gold mine on pulling our InfoSec heads out of our InfoSec tailpipes and focusing on the modes and methods our real adversaries are using. (Pro Tip: They aren't using crappy malware, so if you're InfoSec program is built on stopping malware you should be concerned.) We all hear about the social engineering component to an effective attack, but to see it so effectively used over and over again with Wil's case studies really drives home the point. If you're involved in either the management of an Information Security program, or involved in the more tactical parts of penetration testing, I'd put this on your short list of books to read this year. I hope he does a follow-up.

I first met Wil at a bar in a hacker conference in Luxembourg in 2010 (of all places) and was impressed at the sheer depth (and breadth) of his knowledge. A very funny and clever guy, I had just read his previous work on physical pen testing. At the time advice his advice was something along the lines of "Everything written about security is nonsense. You can hack anything with a ZX Spectrum." This work is about 100 times better - he doesn't mess about - this is what pen testers should be reading now. The chapter on hitting secure military facilities is worth the cover price. The chapter on banks will make any seasoned pen tester chuckle with shared schadenfreude. Finally, a realistic book on pen testing that doesn't waste time talking about nMap or Kali Linux. If you want to learn penetration testing - talk to this guy, he's a legend. Make sure you check out the addendum to the book at [Abatis HDF](#)

This book is in a class of its own compared to other security and pentesting books. I would highly recommend to anyone interested or currently working in network security. Instead of simply explaining how to use common pentesting tools, Wil Allsopp explains how they work and how to write your own custom tools from the ground up. Even if you do not have a programming background, it is worth understanding how an attacker can infiltrate a "secure" network without being detected.

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