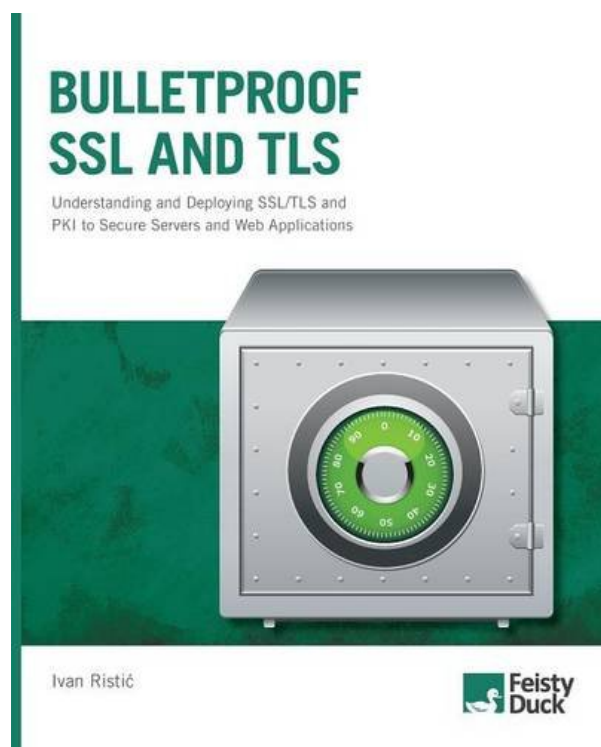


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Review

"The most comprehensive book about deploying TLS in the real world!"

Nasko Oskov, Chrome Security developer and former SChannel developer "Meticulously researched."

Eric Lawrence, Fiddler author and former Internet Explorer Program Manager "The most to the point and up to date book about SSL/TLS I've read."

Jakob Schlyter, IT security advisor and DANE co-author

About the Author

Ivan Ristic is a security researcher, engineer, and author, known especially for his contributions to the web application firewall field and development of ModSecurity, an open source web application firewall, and for his SSL/TLS and PKI research, tools, and guides published on the SSL Labs web site. Ivan is an active participant in the security community, and you'll often find him speaking at security conferences, such as Black Hat, RSA, OWASP AppSec, and others. He's currently Director of Application Security Research at Qualys.

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FULLY REVISED IN AUGUST 2015.

Bulletproof SSL and TLS is a complete guide to using SSL and TLS encryption to deploy secure servers and web applications. Written by Ivan Ristic, the author of the popular SSL Labs web site, this book will teach you everything you need to know to protect your systems from eavesdropping and impersonation attacks.

In this book, you'll find just the right mix of theory, protocol detail, vulnerability and weakness information, and deployment advice to get your job done:

- Comprehensive coverage of the ever-changing field of SSL/TLS and Internet PKI, with updates to the digital version
- For IT security professionals, help to understand the risks
- For system administrators, help to deploy systems securely
- For developers, help to design and implement secure web applications
- Practical and concise, with added depth when details are relevant
- Introduction to cryptography and the latest TLS protocol version
- Discussion of weaknesses at every level, covering implementation issues, HTTP and browser problems, and protocol vulnerabilities
- Coverage of the latest attacks, such as BEAST, CRIME, BREACH, Lucky 13, RC4 biases, Triple Handshake Attack, and Heartbleed
- Thorough deployment advice, including advanced technologies, such as Strict Transport Security, Content Security Policy, and pinning
- Guide to using OpenSSL to generate keys and certificates and to create and run a private certification authority
- Guide to using OpenSSL to test servers for vulnerabilities
- Practical advice for secure server configuration using Apache httpd, IIS, Java, Nginx, Microsoft Windows, and Tomcat

This book is available in paperback and a variety of digital formats without DRM. Digital version of Bulletproof SSL and TLS can be obtained directly from the author, at feistyduck.com.

- Sales Rank: #82342 in Books
- Published on: 2014-08-01
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.11" w x 7.52" l, 1.98 pounds
- Binding: Paperback
- 530 pages

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About the Author

Ivan Ristic is a security researcher, engineer, and author, known especially for his contributions to the web application firewall field and development of ModSecurity, an open source web application firewall, and for his SSL/TLS and PKI research, tools, and guides published on the SSL Labs web site. Ivan is an active participant in the security community, and you'll often find him speaking at security conferences, such as Black Hat, RSA, OWASP AppSec, and others. He's currently Director of Application Security Research at Qualys.

Most helpful customer reviews

7 of 7 people found the following review helpful.

Must read book for developers, administrators, and security folks.

By Ilya Grigorik

Comprehensive, thorough, and an engaging book -- a rare combination, especially for a field that is mired in jargon and subtle but critical technical insights. Imagine sitting down with an expert for a (long) cup of coffee, and getting an end-to-end story on SSL/TLS: the history of the protocol, how it works, what all the options mean, attacks and mitigations, performance and security best practices, and more. Best of all, everything is explained in approachable english, with lots of examples, citations, and tips.

If you've ever ran the Qualys SSL Test on your site (if you haven't, definitely give it a try), and felt overwhelmed by all the output, then this book is the explainer you've been looking for. By the time you're done, you'll know what all the checks are, why the tool is recommending particular configurations, and how you can go about addressing them on your servers.

The future of the internet is TLS everywhere, and this is a must read guide for developers, administrators, and security folks alike.

9 of 10 people found the following review helpful.

Comprehensive, Practical, and Accurate

By Eric Lawrence

This is *the* HTTPS book to buy, whether you're a web developer, IT administrator, security researcher, or computer science student.

Author Ivan Ristic's meticulously-researched book covers every important aspect of HTTPS, from cryptography, to public key infrastructure, to deployment and operations. Weighing in at a hefty 506 pages, it's unlikely that you'll read this book as I did, from cover-to-cover, so the author thoughtfully crafted the book with distinct sections so you can easily start with the content most important to your needs before (or instead of) reading anything else.

For security enthusiasts, there's excellent coverage of all of the major attacks against TLS and PKI over the last decade or so, from CA compromise to TLS protocol attacks like BEAST, CRIME, Lucky 13, and more. This book serves as an excellent resource on each of these attacks-- how they operate, and how to mitigate against them.

Web developers charged with keeping their sites fast as they move to HTTPS will appreciate nearly 30 pages of content on optimizing HTTPS for both the network and CPU, and fantastic coverage of OpenSSL will help you navigate the many functions of that powerful toolchain, even if your servers are running on other technologies. Thoughtful coverage on the tradeoffs between high security and interoperability problems is found in every chapter, to help you make the right decisions for your site's needs.

One of the best features about this book is its breadth of platform coverage; unlike many guides that cover only one particular implementation, *Bulletproof SSL and TLS* covers all of the major platforms including thorough sections on OpenSSL, Apache, Java/Tomcat, IIS, and Nginx, with comments and footnotes about more obscure platforms as appropriate.

The web is full of outdated, inaccurate, and conflicting information about how to configure and deploy HTTPS properly, which makes this book an invaluable reference which will remain on my desk for years to come.

4 of 4 people found the following review helpful.

Excellent book which needs a new title!

By ViolentMetaphor

The title makes it sound like a boring sysadmin book on setting up HTTPS sites. I think it is better described as a book which gives you the context and history of PKI and SSL/TLS in terms of implementation, attacks and mitigations. Oh and it also has a section on sysadmin and some programming in the latter half of the book. For me, the first 200 pages is worth the price of admission. That's the kind of information that people get by doing hands on investigation, research and staying current in the field.

As a software engineer, I read a lot of technical books. It's rare to see a book like this which combines so many different elements into a cohesive book. It could be split up into 2 books: one on the history/context of the development and vulnerabilities of SSL/TLS and another on using OpenSSL, configuring certs and servers. I'm glad it's all one book so I only need to recommend one! There aren't many books like this on the market on any topic. It's rare to see someone cover the basics of the theory, summary of attacks and mitigations, and trade-offs with deploying in the real world.

The book's binding and paper is great as well. If you properly break in the book, it will lie flat all the way from page 30 onward. I didn't have any problems reading it on a bed. I read this cover to cover in part of a weekend. It was a quick, fun and informative read. After reading this, you should be ready to dive into the RFCs.

My criticism is light. I don't think the wikipedia references have much value. Everyone knows you can search for things. I think using the URL shortener links are annoying. What happens when your server goes down? And I wish there was a quick reference appendix at the end which summarizes recommended future reading. There were some book recommendations throughout the book and a summary of important RFCs. It would be nice to have that all in one place.

See all 34 customer reviews...

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As one of the book compilations to recommend, this *Bulletproof SSL And TLS: Understanding And Deploying SSL/TLS And PKI To Secure Servers And Web Applications* By Ivan Ristic has some strong factors for you to review. This publication is quite ideal with exactly what you need now. Besides, you will certainly additionally enjoy this publication *Bulletproof SSL And TLS: Understanding And Deploying SSL/TLS And PKI To Secure Servers And Web Applications* By Ivan Ristic to review due to the fact that this is among your referred books to check out. When going to get something brand-new based upon encounter, home entertainment, and also other lesson, you can use this book *Bulletproof SSL And TLS: Understanding And Deploying SSL/TLS And PKI To Secure Servers And Web Applications* By Ivan Ristic as the bridge. Starting to have reading practice can be gone through from various methods and also from variant types of books