Bulletproof Ssl And Tls Understanding And Deploying Ssltls And Pki To Secure Servers And Web Applications

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TLS 1.3 Handshake*Load balancing in Layer 4 vs Layer 7 with HAPROXY Examples Tech Talk: SSL and TLS* ~~Transport Layer Security (TLS) - Computerphile~~ Purpose Driven Design in Computer Security - My SSL Labs Journey by Ivan Ristić (2018) *Zack Tollman: Understanding HTTPS and TLS* ~~Gentle introduction to TLS, PKI, and Python's ssl module - Christian Heimes - PyLondinium19~~ Walk-through - SSL for free! 14. SSL and HTTPS RSA Security Conference in San Francisco on Feb 13 - 17, 2017 Bulletproof Ssl And Tls Understanding

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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...

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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.

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BULLETPROOF SSL AND TLS. Understanding and deploying SSL/TLS and PKI to secure your servers and web applications. “The most comprehensive book about deploying TLS in the real world!”. Nasko Oskov, Chrome Security developer and former SChannel developer. “Meticulously researched.”.

SECOND OPENSSL EDITION COOKBOOK
Given that the whole purpose of SSL/TLS is secure communication, it is crucial to understand all of its implementation flaws over its history (SSL 1/2/3, TLS 1.0,1.1,1.2,1.3(draft)). Reading the detailed accounts in the book of the exploits makes it clear how careful one must be with particular aspects of the protocol (e.g., initial handshake, encryption negotiation, ongoing sequence of packets).

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Bulletproof SSL and TLS Understanding and Deploying SSL/TLS and PKI to Secure Servers and Web Applications This edition published in Aug 01, 2014 by Feisty Duck Bulletproof SSL and TLS (Aug 01, 2014 edition) | Open Library I often say that Bulletproof SSL and TLS is a living book, but what

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Ristić also wrote an entire book about the topic titled “Bulletproof SSL and TLS: Understanding and Deploying SSL/TLS and PKI to Secure Servers and Web Applications.” We recently had a chance to catch up with Ivan and pick his brain about SSL/TLS challenges, best practices and trends. Here’s what he told us.

SSL: Deceptively Simple, Yet Hard to Implement | Qualys ...
Sep 15, 2020 bulletproof ssl and tls understanding and deploying ssltls and pki to secure servers and web applications Posted By Andrew NeidermanLtd TEXT ID d10580fce Online PDF Ebook Epub Library of the popular ssl labs web site this book will teach

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.

Hands-on, practical guide to implementing SSL and TLS protocols for Internet security If you are a network professional who knows C programming, this practical book is for you. Focused on how to implement Secure Socket Layer (SSL) and Transport Layer Security (TLS), this book guides you through all necessary steps, whether or not you have a working knowledge of cryptography. The book covers SSLv2, TLS 1.0, and TLS 1.2, including implementations of the relevant cryptographic protocols, secure hashing, certificate parsing, certificate generation, and more. Coverage includes: Understanding Internet Security Protecting against Eavesdroppers with Symmetric Cryptography Secure Key Exchange over an Insecure Medium with Public Key Cryptography Authenticating Communications Using Digital Signatures Creating a Network of Trust Using X.509 Certificates A Usable, Secure Communications Protocol: Client-Side TLS Adding Server-Side TLS 1.0 Support Advanced SSL Topics Adding TLS 1.2 Support to Your TLS Library Other Applications of SSL A Binary Representation of Integers: A Primer Installing TCPDump and OpenSSL Understanding the Pitfalls of SSLv2 Set up and launch a working implementation of SSL with this practical guide.

PRODUCT DESCRIPTION ModSecurity Handbook is the definitive guide to ModSecurity, a popular open source web application firewall. Written by Ivan Ristic, who designed and wrote much of ModSecurity, this book will teach you everything you need to know to monitor the activity on your web sites and protect them from attack. Situated between your web sites and the world, web application firewalls provide an additional security layer, monitoring everything that comes in and everything that goes out. They enable you to perform many advanced activities, such as real-time application security monitoring, access control, virtual patching, HTTP traffic logging, continuous passive security assessment, and web application hardening. They can be very effective in preventing application security attacks, such as cross-site scripting, SQL injection, remote file inclusion, and others. Considering that most web sites today suffer from one problem or another, ModSecurity Handbook will help anyone who has a web site to run. The topics covered include: - Installation and configuration of ModSecurity - Logging of complete HTTP traffic - Rule writing, in detail - IP address, session, and user tracking - Session management hardening - Whitelisting, blacklisting, and IP reputation management - Advanced blocking strategies - Integration with other Apache modules - Working with rule sets - Virtual patching - Performance considerations - Content injection - XML inspection - Writing rules in Lua - Extending ModSecurity in C The book is suitable for all reader

levels: it contains step-by-step installation and configuration instructions for those just starting out, as well as detailed explanations of the internals and discussion of advanced techniques for seasoned users. The official ModSecurity Reference Manual is included in the second part of the book. A digital version is available. For more information and to access the online companion, go to www.modsecurityhandbook.com ABOUT THE AUTHOR Ivan Ristic is a respected security expert and author, known especially for his contribution to the web application firewall field and the development of ModSecurity, the open source web application firewall. He is also the author of Apache Security, a comprehensive security guide for the Apache web server. A frequent speaker at computer security conferences, Ivan is an active participant in the application security community, a member of the Open Web Application Security Project, and an officer of the Web Application Security Consortium.

Most applications these days are at least somewhat network aware, but how do you protect those applications against common network security threats? Many developers are turning to OpenSSL, an open source version of SSL/TLS, which is the most widely used protocol for secure network communications.The OpenSSL library is seeing widespread adoption for web sites that require cryptographic functions to protect a broad range of sensitive information, such as credit card numbers and other financial transactions. The library is the only free, full-featured SSL implementation for C and C++, and it can be used programmatically or from the command line to secure most TCP-based network protocols.Network Security with OpenSSL enables developers to use this protocol much more effectively. Traditionally, getting something simple done in OpenSSL could easily take weeks. This concise book gives you the guidance you need to avoid pitfalls, while allowing you to take advantage of the library?s advanced features. And, instead of bogging you down in the technical details of how SSL works under the hood, this book provides only the information that is necessary to use OpenSSL safely and effectively. In step-by-step fashion, the book details the challenges in securing network communications, and shows you how to use OpenSSL tools to best meet those challenges.As a system or network administrator, you will benefit from the thorough treatment of the OpenSSL command-line interface, as well as from step-by-step directions for obtaining certificates and setting up your own certification authority. As a developer, you will further benefit from the in-depth discussions and examples of how to use OpenSSL in your own programs. Although OpenSSL is written in C, information on how to use OpenSSL with Perl, Python and PHP is also included.OpenSSL may well answer your need to protect sensitive data. If that?s the case, Network Security with OpenSSL is the only guide available on the subject.

Introduces the concepts of public key infrastructure design and policy and discusses use of the technology for computer network security in the business environment.

""This is the best book on SSL/TLS. Rescorla knows SSL/TLS as well as anyone and presents it both clearly and completely.... At times, I felt like he's been looking over my shoulder when I designed SSL v3. If network security matters to you, buy this book."" Paul Kocher, Cryptography Research, Inc. Co-Designer of SSL v3 " "Having the right crypto is necessary but not sufficient to having secure communications. If you're using SSL/TLS, you should have "SSL and TLS"sitting on your shelf right next to "Applied Cryptography." Bruce Schneier, Counterpane Internet Security, Inc. Author of "Applied Cryptography"" "Everything you wanted to know about SSL/TLS in one place. It covers the protocols down to the level of packet traces. It covers how to write software that uses SSL/TLS. And it contrasts SSL with other approaches. All this while being technically sound and readable!"" Radia Perlman, Sun Microsystems, Inc. Author of "Interconnections" Secure Sockets Layer (SSL) and its IETF successor, Transport Layer Security (TLS), are the leading Internet security protocols, providing security for e-commerce, web services, and many other network functions. Using SSL/TLS effectively requires a firm grasp of its role in network communications, its security properties, and its performance characteristics. "SSL and TLS" provides total coverage of the protocols from the bits on the wire up to application programming. This comprehensive book not only describes how SSL/TLS is supposed to behave but also uses the author's free ssldump diagnostic tool to show the protocols in action. The author covers each protocol feature, first explaining how it works and then illustrating it in a live implementation. This unique presentation bridges the difficult gap between specification and implementation that is a common source of confusion and incompatibility. In addition to describing the protocols, "SSL and TLS" delivers the essential details required by security architects, application designers, and software engineers. Use the practical design rules in this book to quickly design fast and secure systems using SSL/TLS. These design rules are illustrated with chapters covering the new IETF standards for HTTP and SMTP over TLS. Written by an experienced SSL implementor, "SSL and TLS" contains detailed information on programming SSL applications. The author discusses the common problems faced by implementors and provides complete sample programs illustrating the solutions in both C and Java. The sample programs use the free OpenSSL and PureTLS toolkits so the reader can immediately run the examples. 0201615983B04062001

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This completely revised and expanded second edition of SSL and TLS: Theory and Practice provides an overview and a comprehensive discussion of the Secure Sockets Layer (SSL), Transport Layer Security (TLS), and Datagram TLS (DTLS) protocols that are omnipresent in today's e-commerce and e-business applications and respective security solutions. It provides complete details on the theory and practice of the protocols, offering readers a solid understanding of their design principles and modes of operation. Updates to this edition include coverage of the recent attacks against the protocols, newly specified extensions and firewall traversal, as well as recent developments related to public key certificates and respective infrastructures. This book targets software developers, security professionals, consultants, protocol designers, and chief security officers who will gain insight and perspective on the many details of the SSL, TLS, and DTLS protocols, such as cipher suites, certificate management, and alert messages. The book also comprehensively discusses the advantages and disadvantages of the protocols compared to other Internet security protocols and provides the details necessary to correctly implement the protocols while saving time on the security practitioner's side.

"The complete guide to securing your Apache web server"--Cover.

Linux Kernel Networking takes you on a guided in-depth tour of the current Linux networking implementation and the theory behind it. Linux kernel networking is a complex topic, so the book won't burden you with topics not directly related to networking. This book will also not overload you with cumbersome line-by-line code walkthroughs not directly related to

what you're searching for; you'll find just what you need, with in-depth explanations in each chapter and a quick reference at the end of each chapter. Linux Kernel Networking is the only up-to-date reference guide to understanding how networking is implemented, and it will be indispensable in years to come since so many devices now use Linux or operating systems based on Linux, like Android, and since Linux is so prevalent in the data center arena, including Linux-based virtualization technologies like Xen and KVM.