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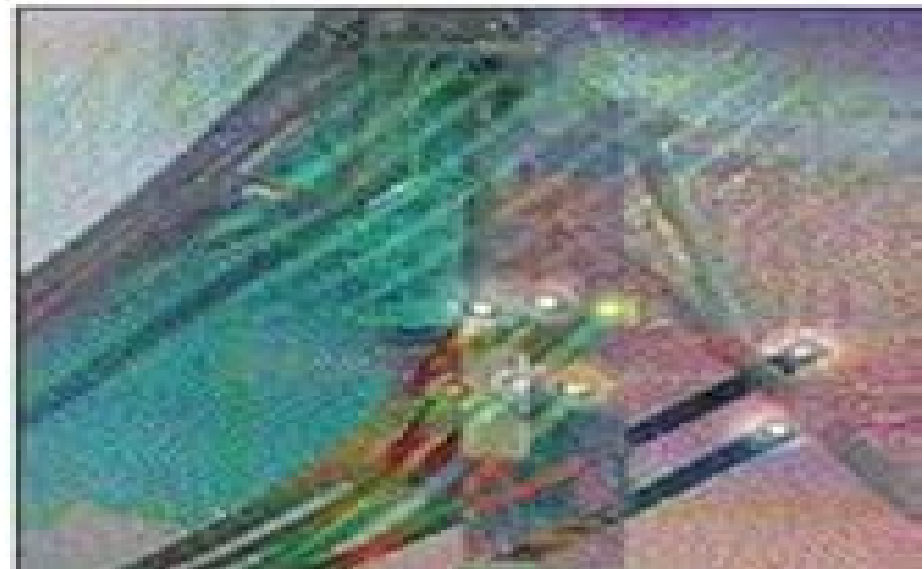
Designing and Building Secure Systems

Eric Rescorla

Ssl And Tls Building And Designing Secure Systems

Qiang Huang,Jazib Frahim

Ssl And Tls Building And Designing Secure Systems:

SSL and TLS Eric Rescorla,2001 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 TLSsitting 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 Engineering Secure Software and Systems Úlfar Erlingsson,Roel Wieringa,Nicola Zannone,2011-01-24 This book constitutes the refereed proceedings of the Third International Symposium on Engineering Secure Software and Systems ESSoS 2011 held in Madrid Italy in February 2011 The 18 revised full papers presented together with 3 idea papers were carefully reviewed and selected from 63 submissions The papers are organized in topical sections on model based security tools and mechanisms Web security security requirements engineering and authorization Security of E-Systems and Computer Networks Mohammad Obaidat,Noureddine Boudriga,2007-06-14 Describes tools of e security and a range of applications including recently developed technologies like Trust management systems and biometrics based security SSL□TLS Eric Rescorla,E.·□□□□

(),2002 SSL TLS SSL TLS **Microservices Security in Action** Prabath Siriwardena,Nuwan Dias,2020-08-04 A complete guide to the challenges and solutions in securing microservices architectures Massimo Siani FinDynamic Key Features Secure microservices infrastructure and code Monitoring access control and microservice to microservice communications Deploy securely using Kubernetes Docker and the Istio service mesh Hands on examples and exercises using Java and Spring Boot Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications Microservices Security in Action teaches you how to address microservices specific security challenges throughout the system This practical guide includes plentiful hands on exercises using industry leading open source tools and examples using Java and Spring Boot About The Book Design and implement security into your microservices from the start Microservices Security in Action teaches you to assess and address security challenges at every level of a Microservices application from APIs to infrastructure You ll find effective solutions to common security problems including throttling and monitoring access control at the API gateway and microservice to microservice communication Detailed Java code samples exercises and real world business use cases ensure you can put what you ve learned into action immediately What You Will Learn Microservice security concepts Edge services with an API gateway Deployments with Docker Kubernetes and Istio Security testing at the code level Communications with HTTP gRPC and Kafka This Book Is Written For For experienced microservices developers with intermediate Java skills About The Author Prabath Siriwardena is the vice president of security architecture at WSO2 Nuwan Dias is the director of API architecture at WSO2 They have designed secure systems for many Fortune 500 companies Table of Contents PART 1 OVERVIEW 1 Microservices security landscape 2 First steps in securing microservices PART 2 EDGE SECURITY 3 Securing north south traffic with an API gateway 4 Accessing a secured microservice via a single page application 5 Engaging throttling monitoring and access control PART 3 SERVICE TO SERVICE COMMUNICATIONS 6 Securing east west traffic with certificates 7 Securing east west traffic with JWT 8 Securing east west traffic over gRPC 9 Securing reactive microservices PART 4 SECURE DEPLOYMENT 10 Conquering container security with Docker 11 Securing microservices on Kubernetes 12 Securing microservices with Istio service mesh PART 5 SECURE DEVELOPMENT 13 Secure coding practices and automation *Critical Information Infrastructures* Maitland Hyslop,2007-09-05 Resilience is an increasingly important concept and quality in today s world It is particularly important in the area of Critical Infrastructures It is crucial in the area of Critical Information Infrastructure This is because since the year 2000 man has been dependent on information and telecommunications systems for survival particularly in the Organization for Economic Cooperation and Development OECD countries and because all other Critical Inf structures depend upon to a greater or lesser extent Critical Information 1 2 Infrastructure Until probably the late 1980s it would be fair to say that the defense of individual nation states depended upon a mixture of political will and armed might The fall of the Berlin Wall may have effectively ended the Cold War and with it a bipolar world but it brought globalization and a

multipolar digital world in its wake Simply put a number of power vacuums were created and these have yet to be fully filled and settled In this New World many changes were afoot These changes include the increasing irrelevance of nation states in federated structures and the export of democracy on the back of globalization One of the biggest changes though is the use of digital technolo gy by the OECD countries This is on such a scale that these countries have become both dependent upon information technology and as individual 3 states largely irrelevant to the new global electronic economy 1 This adaptation of Maslow s hierarchy of needs is attributed to KPMG *Data Management Technologies and Applications* Markus Helfert,Andreas Holzinger,Orlando Belo,Chiara Francalanci,2015-10-30 This book constitutes the thoroughly refereed proceedings of the Third International Conference on Data Technologies and Applications DATA 2014 held in Vienna Austria in August 2014 The 12 revised full papers were carefully reviewed and selected from 87 submissions The papers deal with the following topics databases data warehousing data mining data management data security knowledge and information systems and technologies advanced application of data *Smart Card Research and Advanced Applications VI* Jean-Jacques Quisquater,Pierre Paradinas,Yves Deswarte,Anas Abou El Kalam,2006-04-11 In the Information Society the smart card or smart device with its processing power and link to its owner will be the potential human representation or delegate in Ambient Intelligence Pervasive Computing where every appliance or computer will be connected and where control and trust of the personal environment will be the next decade challenge Smart card research is of increasing importance as the need for information security grows rapidly Smart cards will play a very large role in ID management in secure systems In many computer science areas smart cards introduce new dimensions and opportunities Disciplines like hardware design operating systems modeling systems cryptography and distributed systems find new areas of applications or issues smart cards also create new challenges for these domains CARDIS the IFIP Conference on Smart Card Research and Advanced Applications gathers researchers and technologists who are focused in all aspects of the design development deployment validation and application of smart cards or smart personal devices This volume contains the 20 papers that have been selected by the CARDIS Program Committee for presentation at the 6th International Conference on Smart Card Research and Advanced Applications CARDIS 2004 which was held in conjunction with the IFIP 18th World Computer Congress in Toulouse France in August 2004 and sponsored by the International Federation for Information Processing IFIP With 20% of the papers coming from Asia 20% from America and 60% from Europe the competition was particularly severe this year with only 20 papers selected out of 45 very good submissions Smart Card Research and Advanced Applications VI presents the latest advances in smart card research and applications and will be essential reading for developers of smart cards and smart card applications as well as for computer science researchers in computer architecture computer security and cryptography *Spring Security* Badr Nasslahsen,2024-06-28 Leverage the power of Spring Security 6 to protect your modern Java applications from hackers Key Features Architect solutions that leverage Spring Security while remaining loosely coupled Implement

authentication and authorization with SAML2 OAuth 2 hashing and encryption algorithms Integrate Spring Security with technologies such as microservices Kubernetes the cloud and GraalVM native images Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWith experienced hackers constantly targeting apps properly securing them becomes challenging when you integrate this factor with legacy code new technologies and other frameworks Written by a Lead Cloud and Security Architect as well as CISSP this book helps you easily secure your Java apps with Spring Security a trusted and highly customizable authentication and access control framework The book shows you how to implement different authentication mechanisms and properly restrict access to your app You ll learn to integrate Spring Security with popular web frameworks like Thymeleaf and Microservice and Cloud services like Zookeeper and Eureka along with architecting solutions that leverage its full power while staying loosely coupled You ll also see how Spring Security defends against session fixation moves into concurrency control and how you can use session management for administrative functions This fourth edition aligns with Java 17 21 and Spring Security 6 covering advanced security scenarios for RESTful web services and microservices This ensures you fully understand the issues surrounding stateless authentication and discover a concise approach to solving those issues By the end of this book you ll be able to integrate Spring Security 6 with GraalVM native images seamlessly from start to finish What you will learn Understand common security vulnerabilities and how to resolve them Implement authentication and authorization and learn how to map users to roles Integrate Spring Security with LDAP Kerberos SAML 2 OpenID and OAuth Get to grips with the security challenges of RESTful web services and microservices Configure Spring Security to use Spring Data for authentication Integrate Spring Security with Spring Boot Spring Data and web applications Protect against common vulnerabilities like XSS CSRF and Clickjacking Who this book is for If you re a Java web developer or an architect with fundamental knowledge of Java 17 21 web services and the Spring Framework this book is for you No previous experience with Spring Security is needed to get started with this book

Everyday Cryptography Keith M. Martin,2012-02-29 Cryptography is a vital technology that underpins the security of information in computer networks This book presents a comprehensive introduction to the role that cryptography plays in providing information security for technologies such as the Internet mobile phones payment cards and wireless local area networks Focusing on the fundamental principles that ground modern cryptography as they arise in modern applications it avoids both an over reliance on transient current technologies and over whelming theoretical research Everyday Cryptography is a self contained and widely accessible introductory text Almost no prior knowledge of mathematics is required since the book deliberately avoids the details of the mathematical techniques underpinning cryptographic mechanisms though a short appendix is included for those looking for a deeper appreciation of some of the concepts involved By the end of this book the reader will not only be able to understand the practical issues concerned with the deployment of cryptographic mechanisms including the management of cryptographic keys but will also be able to interpret future

developments in this fascinating and increasingly important area of technology **Writing Secure Code** Michael Howard,David LeBlanc,2003 Howard and LeBlanc both are security experts with Microsoft discuss the need for security and outline its general principles before outlining secure coding techniques Testing installation documentation and error messages are also covered Appendices discuss dangerous APIs dismiss pathetic excuses and provide security checklists The book explains how systems can be attacked uses anecdotes to illustrate common mistakes and offers advice on making systems secure Annotation copyrighted by Book News Inc Portland OR   Computer Security and the Internet Paul C. van Oorschot,2021-10-13 This book provides a concise yet comprehensive overview of computer and Internet security suitable for a one term introductory course for junior senior undergrad or first year graduate students It is also suitable for self study by anyone seeking a solid footing in security including software developers and computing professionals technical managers and government staff An overriding focus is on brevity without sacrificing breadth of core topics or technical detail within them The aim is to enable a broad understanding in roughly 350 pages Further prioritization is supported by designating as optional selected content within this Fundamental academic concepts are reinforced by specifics and examples and related to applied problems and real world incidents The first chapter provides a gentle overview and 20 design principles for security The ten chapters that follow provide a framework for understanding computer and Internet security They regularly refer back to the principles with supporting examples These principles are the conceptual counterparts of security related error patterns that have been recurring in software and system designs for over 50 years The book is elementary in that it assumes no background in security but unlike soft high level texts it does not avoid low level details instead it selectively dives into fine points for exemplary topics to concretely illustrate concepts and principles The book is rigorous in the sense of being technically sound but avoids both mathematical proofs and lengthy source code examples that typically make books inaccessible to general audiences Knowledge of elementary operating system and networking concepts is helpful but review sections summarize the essential background For graduate students inline exercises and supplemental references provided in per chapter endnotes provide a bridge to further topics and a springboard to the research literature for those in industry and government pointers are provided to helpful surveys and relevant standards e g documents from the Internet Engineering Task Force IETF and the U S National Institute of Standards and Technology   **Deploying Cisco Wide Area Application Services** Zach Seils CCIE No. 7861,Joel Christner CCIE No. 15311,Nancy Jin,2010-01-12 Implement advanced WAN optimization application acceleration and branch virtualization with Cisco WAAS 4 1 This book brings together all the information you need to design and deploy scalable transparent application acceleration WAN optimization and branch virtualization solutions with dramatically improved Wide Area Application Services WAAS 4 1 products from Cisco Cisco WAAS insiders Joel Christner Zach Seils and Nancy Jin systematically cover new WAAS software enhancements that enable far better performance simplified workflow and improved manageability They introduce powerful new solution components

including application specific acceleration techniques hardware form factors and virtualization They also thoroughly explain recent architectural improvements that provide a solid foundation for future WAAS solutions The authors begin by reviewing the underlying technologies that comprise today s Cisco WAAS solution Next drawing on extensive personal experience they walk through collecting requirements designing effective solutions integrating WAAS into existing networks and configuring WAAS 4 1 software This book is replete with real world implementation examples and case studies including extensive coverage of network branch office and data center integration One step at a time you ll learn how to deploy Cisco WAAS in a scalable transparent and seamless fashion one that addresses both your business and technical challenges Thoroughly understand WAAS 4 1 s capabilities and learn how to use and manage it effectively Understand both the Cisco WAAS appliance and router integrated network module hardware family Quickly deploy WAAS in lab or production pilot environments to quantify its potential benefits Size design and deploy Cisco WAAS for maximum performance and value in your enterprise network Compare and select design options for branch office and data center network integration Deploy the WAAS Central Manager and accelerator WAAS devices Implement centralized authentication authorization alarm management monitoring and reporting Configure WAN optimization with the Application Traffic Policy Manager Configure verify and manage application acceleration Leverage WAAS 4 1 s powerful new branch office virtualization capabilities Quickly troubleshoot WAAS problems using Cisco s own best practices This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers   Security and Usability Lorrie Faith Cranor,Simson Garfinkel,2005-08-25 Human factors and usability issues have traditionally played a limited role in security research and secure systems development Security experts have largely ignored usability issues both because they often failed to recognize the importance of human factors and because they lacked the expertise to address them But there is a growing recognition that today s security problems can be solved only by addressing issues of usability and human factors Increasingly well publicized security breaches are attributed to human errors that might have been prevented through more usable software Indeed the world s future cyber security depends upon the deployment of security technology that can be broadly used by untrained computer users Still many people believe there is an inherent tradeoff between computer security and usability It s true that a computer without passwords is usable but not very secure A computer that makes you authenticate every five minutes with a password and a fresh drop of blood might be very secure but nobody would use it Clearly people need computers and if they can t use one that s secure they ll use one that isn t Unfortunately unsecured systems aren t usable for long either They get hacked compromised and otherwise rendered useless There is increasing agreement that we need to design secure systems that people can actually use but less agreement about how to reach this goal Security Usability is the first book length work describing the current state of the art in this emerging field Edited by

security experts Dr Lorrie Faith Cranor and Dr Simson Garfinkel and authored by cutting edge security and human computerinteraction HCI researchers world wide this volume is expected to become both a classic reference and an inspiration for future research Security Usability groups 34 essays into six parts Realigning Usability and Security with careful attention to user centered design principles security and usability can be synergistic Authentication Mechanisms techniques for identifying and authenticating computer users Secure Systems how system software can deliver or destroy a secure user experience Privacy and Anonymity Systems methods for allowing people to control the release of personal information Commercializing Usability The Vendor Perspective specific experiences of security and software vendors e g IBM Microsoft Lotus Firefox and Zone Labs in addressing usability The Classics groundbreaking papers that sparked the field of security and usability This book is expected to start an avalanche of discussion new ideas and further advances in this important field *Data Center Fundamentals* Mauricio Arregoces,Maurizio Portolani,2003 And server load balancing fundamentals are covered in detail including session persistence and cookies server health modes and predictors and multitier architectures Putting it all together are chapters on Data Center design that also advise you on integrating security into your design and understanding performance metrics of Data Center devices An in depth analysis of the Data Center technology coupled with real life scenarios make Data Center Fundamentals an ideal reference for understanding planning and designing scalable highly available and secure server farms applicable to web hosting and e commerce environments amongst others Book jacket *Everyday Cryptography* Keith Martin,2017-06-22 Cryptography is a vital technology that underpins the security of information in computer networks This book presents a comprehensive introduction to the role that cryptography plays in providing information security for everyday technologies such as the Internet mobile phones Wi Fi networks payment cards Tor and Bitcoin This book is intended to be introductory self contained and widely accessible It is suitable as a first read on cryptography Almost no prior knowledge of mathematics is required since the book deliberately avoids the details of the mathematics techniques underpinning cryptographic mechanisms Instead our focus will be on what a normal user or practitioner of information security needs to know about cryptography in order to understand the design and use of everyday cryptographic applications By focusing on the fundamental principles of modern cryptography rather than the technical details of current cryptographic technology the main part this book is relatively timeless and illustrates the application of these principles by considering a number of contemporary applications of cryptography Following the revelations of former NSA contractor Edward Snowden the book considers the wider societal impact of use of cryptography and strategies for addressing this A reader of this book will not only be able to understand the everyday use of cryptography but also be able to interpret future developments in this fascinating and crucially important area of technology **Collaborative Product and Service Life Cycle Management for a Sustainable World** Richard Curran,Shuo-Yan Chou,Amy J. C. Trappey,2008-08-31 Collaborative Product and Service Life Cycle Management for a Sustainable World

gathers together papers from the 15th ISPE International Conference on Concurrent Engineering CE2008 to stimulate the new thinking that is so crucial to our sustained productivity enhancement and quality of life It is already evident in this new century that the desire for sustainable development is increasingly driving the market to reach for new and innovative solutions that more effectively utilize the resources we have inherited from previous generations with the obvious responsibility to future generations Human productivity and progress can be positively engineered and managed in harmony with the provision and needs of our natural environment One century on from the industrial revolution this is now the time of the sustainable revolution requiring holistic technological process and people integrated solutions to sustained socio economic enhancement   **Internet of Things** Rajkumar Buyya,Amir Vahid Dastjerdi,2016-05-11 Internet of Things Principles and Paradigms captures the state of the art research in Internet of Things its applications architectures and technologies The book identifies potential future directions and technologies that facilitate insight into numerous scientific business and consumer applications The Internet of Things IoT paradigm promises to make any electronic devices part of the Internet environment This new paradigm opens the doors to new innovations and interactions between people and things that will enhance the quality of life and utilization of scarce resources To help realize the full potential of IoT the book addresses its numerous challenges and develops the conceptual and technological solutions for tackling them These challenges include the development of scalable architecture moving from closed systems to open systems designing interaction protocols autonomic management and the privacy and ethical issues around data sensing storage and processing Addresses the main concepts and features of the IoT paradigm Describes different architectures for managing IoT platforms Provides insight on trust security and privacy in IoT environments Describes data management techniques applied to the IoT environment Examines the key enablers and solutions to enable practical IoT systems Looks at the key developments that support next generation IoT platforms Includes input from expert contributors from both academia and industry on building and deploying IoT platforms and applications   Cryptography and Network Security William Stallings,2006 In this age of viruses and hackers of electronic eavesdropping and electronic fraud security is paramount This solid up to date tutorial is a comprehensive treatment of cryptography and network security is ideal for self study Explores the basic issues to be addressed by a network security capability through a tutorial and survey of cryptography and network security technology Examines the practice of network security via practical applications that have been implemented and are in use today Provides a simplified AES Advanced Encryption Standard that enables readers to grasp the essentials of AES more easily Features block cipher modes of operation including the CMAC mode for authentication and the CCM mode for authenticated encryption Includes an expanded updated treatment of intruders and malicious software A useful reference for system engineers programmers system managers network managers product marketing personnel and system support specialists   SSL Remote Access VPNs (Network Security) Qiang Huang,Jazib Frahim,2008-06-10 SSL Remote Access VPNs An

introduction to designing and configuring SSL virtual private networks Jazib Frahim CCIE No 5459 Qiang Huang CCIE No 4937 Cisco SSL VPN solutions formerly known as Cisco WebVPN solutions give you a flexible and secure way to extend networking resources to virtually any remote user with access to the Internet and a web browser Remote access based on SSL VPN delivers secure access to network resources by establishing an encrypted tunnel across the Internet using a broadband cable or DSL or ISP dialup connection SSL Remote Access VPNs provides you with a basic working knowledge of SSL virtual private networks on Cisco SSL VPN capable devices Design guidance is provided to assist you in implementing SSL VPN in existing network infrastructures This includes examining existing hardware and software to determine whether they are SSL VPN capable providing design recommendations and guiding you on setting up the Cisco SSL VPN devices Common deployment scenarios are covered to assist you in deploying an SSL VPN in your network SSL Remote Access VPNs gives you everything you need to know to understand design install configure and troubleshoot all the components that make up an effective secure SSL VPN solution Jazib Frahim CCIE No 5459 is currently working as a technical leader in the Worldwide Security Services Practice of the Cisco Advanced Services for Network Security He is responsible for guiding customers in the design and implementation of their networks with a focus on network security He holds two CCIEs one in routing and switching and the other in security Qiang Huang CCIE No 4937 is a product manager in the Cisco Campus Switch System Technology Group focusing on driving the security and intelligent services roadmap for market leading modular Ethernet switching platforms During his time at Cisco Qiang has played an important role in a number of technology groups including the Cisco TAC security and VPN team where he was responsible for trouble shooting complicated customer deployments in security and VPN solutions Qiang has extensive knowledge of security and VPN technologies and experience in real life customer deployments Qiang holds CCIE certifications in routing and switching security and ISP Dial Understand remote access VPN technologies such as Point to Point Tunneling Protocol PPTP Internet Protocol Security IPsec Layer 2 Forwarding L2F Layer 2 Tunneling L2TP over IPsec and SSL VPN Learn about the building blocks of SSL VPN including cryptographic algorithms and SSL and Transport Layer Security TLS Evaluate common design best practices for planning and designing an SSL VPN solution Gain insight into SSL VPN functionality on Cisco Adaptive Security Appliance ASA and Cisco IOS routers Install and configure SSL VPNs on Cisco ASA and Cisco IOS routers Manage your SSL VPN deployment using Cisco Security Manager This security book is part of the Cisco Press Networking Technology Series Security titles from Cisco Press help networking professionals secure critical data and resources prevent and mitigate network attacks and build end to end self defending networks Category Networking Security Covers SSL VPNs

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