

Https Ssl Certificate

Rob Fitzpatrick

[Secure Your WordPress Website with HTTPS for Free](#) Andy Williams, 2018-04-07 Fix Not Secure warnings in Google Chrome and other browsers, for free! How many times have you heard about major companies being hacked and private data being accessed? It's scary isn't it? Everyone is becoming more aware of the need for increased security when online. We now live in an internet world where trust is everything. If you run a website, then act now. Visitors to your site need to know they can trust you and your website. Visitors now know that they can easily check whether your site is secure by looking up at the address bar of their browser. If a web page is secure, they will see the comforting Padlock icon. Google Chrome (used by around 60% of all surfers) goes one step further and adds the word Secure, just to reinforce the fact. Insecure pages don't have that padlock, and Google Chrome may even state Not Secure. How would that kill the trust of your visitors? The industry standard for establishing a secure and encrypted link to a website is called SSL (Secure Sockets Layer). This encryption ensures that all data moving between a web browser and a website server is private. You can tell if a website uses a secure connection because the URL begins with HTTPS. That s stands for secure, so HTTPS is the secure version of HTTP. To create this type of security, you need at least one certificate, issued by a certificate authority and installed on your server. This used to cost a significant amount of money. However, in this book, I will show you how to get a free certificate and install it so that your site is secure. In the process, you'll also add your site to Cloudflare, a content delivery network that speeds up and helps protect your website from hackers and spammers. In this book you will learn: * What SSL is and why it is important for a website to have that HTTPS prefix. * That Google actually count SSL on a site as a ranking factor. * How HTTPS works and how to set it up on your website. * That some web hosts may have already set up an HTTPS version of your site using something called AutoSSL. * How to check if your site already has a secure version. * Why sites can have both HTTP AND HTTPS versions, and why this is a bad idea. * What to look for in a web host to make the transition to HTTPS simple and pain-free. * What CloudFlare is and why you should be using it. * How to setup a free account on Cloudflare and then add your site to Cloudflare. * How to change the DNS at your registrar. * About the various types of SSL offered by Cloudflare. * About origin certificates. * How to exclude your site from AutoSSL and stop your cPanel from auto-generating certificates for you. You'll see an example of why this can be a good idea. * How to create a free origin certificate at Cloudflare and how to install it on your server. * How to secure your WordPress dashboard. * How to get back into your dashboard if you accidentally get

locked out in the process.* How to set up redirects so that all of the old HTTP web pages automatically redirect to the secure HTTPS version. This type of redirect also alerts Google that the page has permanently moved to HTTPS.* How to avoid a problem caused by a specific WordPress caching plugin, and how to fix the problem if you still need to.* How to check your SSL is working on all pages of your website.* What mixed content is, how to find it, and how to fix it.* That there are other places you may need to update links, including the robots.txt and hard-coded links you may have inserted in the past.* How to update Google Analytics if you use it.* How to update things in Google Search Console (Webmaster Tools) if you use this service. The book was created to be hands on, so I show you every step of the process using one of my own sites as an example. You can follow along as we go if you like. By the end of this book, you will be able to move your site over to HTTPS using free SSL certificates.

Bulletproof SSL and TLS Ivan Ristic, 2014 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.

Linux Security Cookbook Daniel J. Barrett, Richard E. Silverman, Robert G. Byrnes, 2003-06-02 Computer security is an ongoing process, a relentless contest between system administrators and intruders. A good administrator needs to stay one step ahead of any adversaries, which often involves a continuing process of education. If you're grounded in the basics of security, however, you won't necessarily want a complete treatise on the subject each time you pick up a book. Sometimes you want to get straight to the point. That's exactly what the new Linux Security Cookbook does. Rather than provide a total security solution for Linux computers, the authors present a series of easy-to-follow recipes--short, focused pieces of code

that administrators can use to improve security and perform common tasks securely. The Linux Security Cookbook includes real solutions to a wide range of targeted problems, such as sending encrypted email within Emacs, restricting access to network services at particular times of day, firewalling a webserver, preventing IP spoofing, setting up key-based SSH authentication, and much more. With over 150 ready-to-use scripts and configuration files, this unique book helps administrators secure their systems without having to look up specific syntax. The book begins with recipes devised to establish a secure system, then moves on to secure day-to-day practices, and concludes with techniques to help your system stay secure. Some of the recipes you'll find in this book are: Controlling access to your system from firewalls down to individual services, using iptables, ipchains, xinetd, inetd, and more Monitoring your network with tcpdump, dsniiff, netstat, and other tools Protecting network connections with Secure Shell (SSH) and stunnel Safeguarding email sessions with Secure Sockets Layer (SSL) Encrypting files and email messages with GnuPG Probing your own security with password crackers, nmap, and handy scripts This cookbook's proven techniques are derived from hard-won experience. Whether you're responsible for security on a home Linux system or for a large corporation, or somewhere in between, you'll find valuable, to-the-point, practical recipes for dealing with everyday security issues. This book is a system saver.

SSL Certificates HOWTO Franck Martin, 2019-11-10 Summary This classic howto was written/updated in 2001-2002, but it is still a great document for any Linux professionals today. It teaches you how to manage a certificate authority (CA), and issue or sign certificates to be used for secure web, secure e-mail, or signing code and other usages using a first hand approach. This is a book you should have on your bookshelf. Table of Contents Generalities Certificate Management Using Certificates in Application Global PKI

OpenSSL Cookbook Ivan Ristic, 2013-10-03 A guide to the most frequently used OpenSSL features and commands, written by Ivan Ristic. Comprehensive coverage of OpenSSL installation, configuration, and key and certificate management Includes SSL/TLS Deployment Best Practices, a design and deployment guide Written by a well-known practitioner in the field and the author of SSL Labs and the SSL/TLS configuration assessment tool Available in a variety of digital formats (PDF, EPUB, Mobi/Kindle); no DRM Continuously updated OpenSSL Cookbook is built around one chapter from Bulletproof SSL/TLS and PKI, a larger work that provides complete coverage of SSL/TLS and PKI topics. To download your free copy in various formats, visit feistyduck.com/books/openssl-cookbook/

High Performance Browser Networking Ilya Grigorik, 2013-09-11 How prepared are you to build fast and efficient web applications? This eloquent book provides what every web developer should know about the network, from fundamental limitations that affect performance to major innovations for building even more powerful browser applications—including HTTP 2.0 and XHR improvements, Server-Sent Events (SSE), WebSocket, and WebRTC. Author Ilya Grigorik, a web performance engineer at Google, demonstrates performance optimization best practices for TCP, UDP, and TLS protocols,

and explains unique wireless and mobile network optimization requirements. You'll then dive into performance characteristics of technologies such as HTTP 2.0, client-side network scripting with XHR, real-time streaming with SSE and WebSocket, and P2P communication with WebRTC. Deliver superlative TCP, UDP, and TLS performance Speed up network performance over 3G/4G mobile networks Develop fast and energy-efficient mobile applications Address bottlenecks in HTTP 1.x and other browser protocols Plan for and deliver the best HTTP 2.0 performance Enable efficient real-time streaming in the browser Create efficient peer-to-peer videoconferencing and low-latency applications with real-time WebRTC transports

The Mom Test Rob Fitzpatrick,2013-10-09 The Mom Test is a quick, practical guide that will save you time, money, and heartbreak. They say you shouldn't ask your mom whether your business is a good idea, because she loves you and will lie to you. This is technically true, but it misses the point. You shouldn't ask anyone if your business is a good idea. It's a bad question and everyone will lie to you at least a little . As a matter of fact, it's not their responsibility to tell you the truth. It's your responsibility to find it and it's worth doing right . Talking to customers is one of the foundational skills of both Customer Development and Lean Startup. We all know we're supposed to do it, but nobody seems willing to admit that it's easy to screw up and hard to do right. This book is going to show you how customer conversations go wrong and how you can do better.

Implementing DevOps with Microsoft Azure Mitesh Soni,2017-04-28 Accelerate and Automate Build, Deploy, and Management of applications to achieve High Availability. About This Book This guide highlights tools that offer development and deployment environments for application services Secure and continuously monitor your web application in order to make it highly available Use Visual Studio Team Services for Continuous Integration and Continuous Development to expedite your application life cycle management process Use Microsoft Azure App Services (Azure Web Apps / Azure Websites), PaaS offering from Microsoft to deploy web application Who This Book Is For This book is for DevOps engineers, system administrators, and developers (.net) who want to implement DevOps for their organization. You do not need to have any knowledge of VSTS or Azure App Services (Azure Web Apps / Azure Websites). What You Will Learn Explore the features of PaaS and aPaaS in DevOps Use Visual Studio Team Services (VSTS) to manage versions of code and integrating VSTS with Eclipse IDE Understand and configure Continuous Integration in VSTS Review Unit Test Execution for Automated Testing Create different environments that can be used to continuous deploy a web application Configure Roll-based Access to enable secure access for Azure Web Apps Create and configure the App Service Environment to enhance security Understand the execution of the end-to-end automation process Conduct Performance Testing using JMeter Discover the different monitoring options available in Microsoft Azure Portal In Detail This book will teach you all about the Visual Studio Team Services and Microsoft Azure PaaS offerings that support Continuous Integration, Continuous Delivery, Continuous Deployment, and execution in the cloud with high availability, disaster recovery, and security. You will first be given a tour of all the concepts

and tools that Microsoft Azure has to offer and how these can be used in situations to cultivate the DevOps culture. You'll be taught how to use and manage Visual Studio Team Services (VSTS) and about the structure of the sample application used throughout the book. You will become familiar with the nitty gritty of Continuous Integration and Continuous Development with VSTS and Microsoft Azure Apps. You will not only learn how to create App service environments, but also how to compare Azure Web Apps and App Service Environments to deploy web applications in a more secure environment. Once you have completed Continuous Integration and created the Platform for application deployment, you will learn more about the final stepping stone in achieving end-to-end automation using approval-based Continuous Delivery and Deployment. You will then learn about Continuous Monitoring, using the monitoring and notification options provided by Microsoft Azure and Visual Studio Team Services.

Style and Approach This book is an easy-to-follow guide filled with examples and real-world applications for gaining an in-depth understanding of Microsoft Azure and Visual Studio. This book will help you leverage Microsoft Azure and Visual Studio using real-world examples.

SSL and TLS: Theory and Practice, Second Edition Rolf Oppliger, 2016-03-31 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.

Learn Cryptography in Just 3 Hrs Rashmi Shah, 2022-10-14 Cryptography, SSL/TLS, HTTPS, Public Key, Private Key, Digital certificates, PKI (Public Key Infrastructure is a very confusing subject and ideally if you are a developer you need to know basics of its workings and this book is covering that. You don't need to hours to understand this concept this is the book we have created for you and make sure that your fundamental understanding of SSL/TLS certificate, public-private key, PKI, Cryptography, Digital certificate all are covered in just few hours and you should not spend many days to understand the same. In fact, to validate your understanding this book cover 45+ interview questions. If you see all the big publisher publishes books with 300 and 400 pages which requires many days to complete a single book and most of the reader reads

first 2-3 chapters of the book and leave it for many days and they start again from first chapter. We don't want you to face the similar problem, just read this book in one sitting and also give you fundamental learning in just couple of hours and spend another hour for question and answer-based learning. Anytime, you want to revise this concepts comeback to book finish the same in couple of hours. Cryptography is the study of secure communications techniques that allow only the sender and intended recipient of a message to view its contents. The term is derived from the Greek word *kryptos*, which means hidden. It is closely associated to encryption, which is the act of scrambling ordinary text into what's known as ciphertext and then back again upon arrival. In addition, cryptography also covers the obfuscation of information in images using techniques such as microdots or merging. Ancient Egyptians were known to use these methods in complex hieroglyphics, and Roman Emperor Julius Caesar is credited with using one of the first modern ciphers. When transmitting electronic data, the most common use of cryptography is to encrypt and decrypt email and other plain-text messages. The simplest method uses the symmetric or secret key system. Here, data is encrypted using a secret key, and then both the encoded message and secret key are sent to the recipient for decryption. The problem? If the message is intercepted, a third party has everything they need to decrypt and read the message. To address this issue, cryptologists devised the asymmetric or public key system. In this case, every user has two keys: one public and one private. Senders request the public key of their intended recipient, encrypt the message and send it along. When the message arrives, only the recipient's private key will decode it — meaning theft is of no use without the corresponding private key.

Apache Superset Quick Start Guide Shashank Shekhar, 2018-12-19 Integrate open source data analytics and build business intelligence on SQL databases with Apache Superset. The quick, intuitive nature for data visualization in a web application makes it easy for creating interactive dashboards. Key Features Work with Apache Superset's rich set of data visualizations Create interactive dashboards and data storytelling Easily explore data Book Description Apache Superset is a modern, open source, enterprise-ready business intelligence (BI) web application. With the help of this book, you will see how Superset integrates with popular databases like Postgres, Google BigQuery, Snowflake, and MySQL. You will learn to create real time data visualizations and dashboards on modern web browsers for your organization using Superset. First, we look at the fundamentals of Superset, and then get it up and running. You'll go through the requisite installation, configuration, and deployment. Then, we will discuss different columnar data types, analytics, and the visualizations available. You'll also see the security tools available to the administrator to keep your data safe. You will learn how to visualize relationships as graphs instead of coordinates on plain orthogonal axes. This will help you when you upload your own entity relationship dataset and analyze the dataset in new, different ways. You will also see how to analyze geographical regions by working with location data. Finally, we cover a set of tutorials on dashboard designs frequently used by analysts, business intelligence professionals, and developers. What you will learn Get to grips with the fundamentals of data exploration using Superset Set

up a working instance of Superset on cloud services like Google Compute EngineIntegrate Superset with SQL databasesBuild dashboards with SupersetCalculate statistics in Superset for numerical, categorical, or text dataUnderstand visualization techniques, filtering, and grouping by aggregationManage user roles and permissions in SupersetWork with SQL LabWho this book is for This book is for data analysts, BI professionals, and developers who want to learn Apache Superset. If you want to create interactive dashboards from SQL databases, this book is what you need. Working knowledge of Python will be an advantage but not necessary to understand this book.

PKI Tutorials - Herong's Tutorial Examples Herong Yang,2019-01-01 This tutorial book is a collection of notes and sample codes written by the author while he was learning PKI (Public Key Infrastructure) technologies himself. Topics include Root CA (Certificate Authorities); SSL, TLS, and HTTPS; Server and client authentication processes; Communication data encryption; Using HTTPS with Chrome, Firefox, Edge, Safari and Internet Explorer; Managing certificates on Windows, macOS, iOS and Android systems; X.509 certificate format; Certificate store and management tools; Certificate validation chain; Self-signed certificate and CSR; Digital signature on MS Word and OpenOffice documents; Get free personal certificate from Comodo. Updated in 2022 (Version v2.31) with macOS and Safari tutorials. For latest updates and free sample chapters, visit <https://www.herongyang.com/PKI>.

The Value of Simple 2nd Ed. John Robertson,2018-02-02

Managing Digital Certificates across the Enterprise Keith Winnard,Martina vondem Bussche,Wai Choi,David Rossi,IBM Redbooks,2018-08-24 This IBM® Redbooks® publication is the first in a series of five books that relate to the implementation and management of digital certificates that are based on a public key infrastructure. Digital certificates play a major role in the protection of data communications and their use continues to grow. This Redbooks publication includes the following chapters: - Chapter 1, Digital certificates overview on page 1 provides an overview of digital certificates. It describes their purpose, gives a high-level overview of how they are created and their relationship to keys and encryption, and how they can be deployed into an organization. - Chapter 2, Digital certificate management considerations on page 19 describes choices and their possible effects to consider for setting up and organizing the infrastructure and processes to be effective in your environments. - Chapter 3, Introducing z/OS PKI Services on page 27 describes how the IBM z/OS® PKI services can provide you with a cross-platform solution to manage your digital certificates and build a strong solution that uses established qualities of service. After you read this IBM Redbooks publication, we suggest that you progress to the following: - z/OS PKI Services: Quick Set-up for Multiple CAs, SG24-8337 Your comments are appreciated. Your feedback can help improve the quality of our Redbooks publications so other readers can gain more value from them.

Evaluation of Some SMTP Testing, Email Verification, Header Analysis, SSL Checkers, Email Delivery, Email Forwarding and WordPress Email Tools Dr. Hidaia Mahmood Alassouli,2023-07-01 Simple Mail Transfer Protocol (SMTP) is a set of rules

used while sending emails. Usually, this protocol is associated with IMAP or POP3. However, SMTP is utilized to deliver messages, while POP3 and IMAP are utilized to receive them. The SMTP testing tool identifies issues with email security in your server that can hinder your email delivery. It checks the health status of your outgoing email server and notifies you about the detected problems, such as connectivity issues, and how to tackle them. An SMTP test tool can identify SMTP server issues and troubleshoot them to keep your email secure and safe. SSL certificates are what enable websites to use HTTPS, which is more secure than HTTP. An SSL certificate is a data file hosted in a website's origin server. SSL certificates make SSL/TLS encryption possible, and they contain the website's public key and the website's identity, along with related information. Devices attempting to communicate with the origin server will reference this file to obtain the public key and verify the server's identity. The private key is kept secret and secure. The SSL Checker tool can verify that the SSL Certificate on your web server is properly installed and trusted. Email headers are present on every email you receive via the Internet. The email header is generated by the client mail program that first sends it and by all the mail servers on route to the destination. Each node adds more text, including from/to addresses, subject, content type, time stamp and identification data. You can trace the path of the message from source to destination by reviewing the email header text. Header Analyzers can help you view and analyze message headers by displaying the information in a user-friendly manner and also by calling out various issues, such as suspected delivery delays that may require your attention. Microsoft Remote Connectivity Analyzer provides many tests, including tests for Inbound and outbound SMTP emails. The Inbound SMTP Email test shows you the various steps taken by an email server to send your domain an inbound SMTP email. Similarly, an Outbound SMTP Email test finds out your outbound IPs for some requirements. It includes Reverse DNS, RBL checks, and Sender ID. Cloudflare, Inc. is an American company that provides content delivery network services, cloud cybersecurity, DDoS mitigation, and ICANN-accredited domain registration services. Registration of international domains can be done through <https://NIC.UA> website. Mailtrap.io is Email Delivery Platform for individuals and businesses to test, send and control email infrastructure in one place. Windows PowerShell is mostly known as a command-line shell used to solve some administration tasks in Windows and apps running on this OS. At the same time, it is a scripting language that allows you to tailor cmdlets - lightweight commands to perform specific functions. You can use the built-in Send-MailMessage cmdlet to send SMTP e-mails from PowerShell. Infinityfree.com provide free website hosting with PHP and MySQL and no Ads in your website. WP Mail SMTP is the best WordPress SMTP plugin that allows you to easily send WordPress emails using a simple mail transfer protocol (SMTP). If you send an email via your WordPress form, you will then be able to keep track of it. Improvmx.com is good Email Forwarding website to be used to receive and send emails with your domain name. You can setup business Email and Email forwarding through improvmx.com. . It is possible to add any ImprovMX alias as a sending email on Gmail. The book consists from the following sections: 1. Types of DNS Records. 2. SSL and TLS Certificates: 3. Replacing the Default

FortiMail Certificate: 4. Header Analysis: 5. Some Tools for Email Verification. 6. Evaluation of Some SMTP Testing Tools. 7. Microsoft Remote Connectivity Analyzer. 8. Creating Free Domain in <https://nic.ua> and Linking it to Cloudflare.com. 9. Mailtrap.io Email Delivery Platform. 10. Sending Emails Using Windows Power Shell. 11. Free Web Hosting from infinityfree.com. 12. Installing Different Types of Plugins Related to Mail on the WordPress Website. 13. Setting Up a Business Email and Email Forwarding Through Improvmx.com. 14. SSL Certificates Checkers. 15. References.

Implementing DirectAccess with Windows Server 2016 Richard M. Hicks, 2016-09-10 Learn how to design, plan, implement, and support a secure remote access solution using DirectAccess in Windows Server 2016. Remote Access has been included in the Windows operating system for many years. With each new operating system release, new features and capabilities have been included to allow network engineers and security administrators to provide remote access in a secure and cost-effective manner. DirectAccess in Windows Server 2016 provides seamless and transparent, always on remote network connectivity for managed Windows devices. DirectAccess is built on commonly deployed Windows platform technologies and is designed to streamline and simplify the remote access experience for end users. In addition, DirectAccess connectivity is bidirectional, allowing administrators to more effectively manage and secure their field-based assets. Implementing DirectAccess with Windows Server 2016 provides a high-level overview of how DirectAccess works. The vision and evolution of DirectAccess are outlined and business cases and market drivers are explained. DirectAccess is evaluated against traditional VPN and this book describes the Windows platform technologies that underpin this solution. In addition, this book: Explains how the technology works and the specific IT pain points that it addresses Includes detailed, prescriptive guidance for those tasked with implementing DirectAccess using Windows Server 2016 Addresses real-world deployment scenarios for small and large organizations Contains valuable tips, tricks, and implementation best practices for security and performance“/li> What you'll learn A high-level understanding of the various remote access technologies included in Windows Server 2016. Common uses cases for remote access, and how best to deploy them in a secure, stable, reliable, and highly available manner. Valuable insight in to design best practices and learn how to implement DirectAccess and VPN with Windows Server 2016 according to deployment best practices. Who This Book Is For IT administrators, network, and security administrators and engineers, systems management professionals, compliance auditors, and IT executive management (CIO, CISO) are the target audience for this title.

Mastering FreeSWITCH Anthony Minessale II, Giovanni Maruzzelli, 2016-07-29 Master the art of advanced VoIP and WebRTC communication with the most dynamic application server, FreeSWITCH About This Book Forget the hassle - make FreeSWITCH work for you Discover how FreeSWITCH integrates with a range of tools and APIs From high availability to IVR development use this book to become more confident with this useful communication software Who This Book Is For SysAdmins, VoIP engineers - whoever you are, whatever you're trying to do, this book will help you get more from

FreeSWITCH. What You Will Learn Get to grips with the core concepts of FreeSWITCH Learn FreeSWITCH high availability Work with SIP profiles, gateways, ITSPs, and Codecs optimization Implement effective security on your projects Master audio manipulation and recording Discover how FreeSWITCH works alongside WebRTC Build your own complex IVR and PBX applications Connect directly to PSTN/TDM Create your own FreeSWITCH module Trace SIP packets with the help of best open source tools Implement Homer Sipcapture to troubleshoot and debug all your platform traffic In Detail FreeSWITCH is one of the best tools around if you're looking for a modern method of managing communication protocols through a range of different media. From real-time browser communication with the WebRTC API to implementing VoIP (voice over internet protocol), with FreeSWITCH you're in full control of your projects. This book shows you how to unlock its full potential - more than just a tutorial, it's packed with plenty of tips and tricks to make it work for you. Written by members of the team who actually helped build FreeSWITCH, it will guide you through some of the newest features of version 1.6 including video transcoding and conferencing. Find out how FreeSWITCH interacts with other tools and APIs, learn how to tackle common (and not so common) challenges ranging from high availability to IVR development and programming advanced PBXs. Great communication functionality begins with FreeSWITCH - find out how and get your project up and running today. Style and approach Find out how it works, then put your knowledge into practice - that's how this advanced FreeSWITCH guide has been designed to help you learn. You'll soon master FreeSWITCH and be confident using it in your projects.

Security Automation with Ansible 2 Madhu Akula,Akash Mahajan,2017-12-13 Automate security-related tasks in a structured, modular fashion using the best open source automation tool available About This Book Leverage the agentless, push-based power of Ansible 2 to automate security tasks Learn to write playbooks that apply security to any part of your system This recipe-based guide will teach you to use Ansible 2 for various use cases such as fraud detection, network security, governance, and more Who This Book Is For If you are a system administrator or a DevOps engineer with responsibility for finding loop holes in your system or application, then this book is for you. It's also useful for security consultants looking to automate their infrastructure's security model. What You Will Learn Use Ansible playbooks, roles, modules, and templating to build generic, testable playbooks Manage Linux and Windows hosts remotely in a repeatable and predictable manner See how to perform security patch management, and security hardening with scheduling and automation Set up AWS Lambda for a serverless automated defense Run continuous security scans against your hosts and automatically fix and harden the gaps Extend Ansible to write your custom modules and use them as part of your already existing security automation programs Perform automation security audit checks for applications using Ansible Manage secrets in Ansible using Ansible Vault In Detail Security automation is one of the most interesting skills to have nowadays. Ansible allows you to write automation procedures once and use them across your entire infrastructure. This book will teach you the best way to use Ansible for seemingly complex tasks by using the various building blocks available and creating solutions that are easy to

teach others, store for later, perform version control on, and repeat. We'll start by covering various popular modules and writing simple playbooks to showcase those modules. You'll see how this can be applied over a variety of platforms and operating systems, whether they are Windows/Linux bare metal servers or containers on a cloud platform. Once the bare bones automation is in place, you'll learn how to leverage tools such as Ansible Tower or even Jenkins to create scheduled repeatable processes around security patching, security hardening, compliance reports, monitoring of systems, and so on. Moving on, you'll delve into useful security automation techniques and approaches, and learn how to extend Ansible for enhanced security. While on the way, we will tackle topics like how to manage secrets, how to manage all the playbooks that we will create and how to enable collaboration using Ansible Galaxy. In the final stretch, we'll tackle how to extend the modules of Ansible for our use, and do all the previous tasks in a programmatic manner to get even more powerful automation frameworks and rigs. Style and approach This comprehensive guide will teach you to manage Linux and Windows hosts remotely in a repeatable and predictable manner. The book takes an in-depth approach and helps you understand how to set up complicated stacks of software with codified and easy-to-share best practices.

The Concise Guide to SSL/TLS for DevOps Alasdair Gilchrist, 2015-06-20 This book, 'A Concise Guide to SSL/TLS for DevOps' is an introduction to SSL & TLS in application and operational environments and as such is a more technical in depth study than is typically the case in the Executive and Management series. This book aims to cover the theory and practice of SSL in working operational situations. Consequently, although no prior knowledge of authentication and encryption methods is required, a good deal of this text will involve certificate and encryption theory, OpenSSL installation and configuration, SSL vulnerabilities and best practices in SSL certificate management.

Bulletproof TLS and PKI, Second Edition: Understanding and Deploying SSL/TLS and PKI to Secure Servers and Web Applications Ivan Ristic, 2022-01-10 Bulletproof TLS and PKI is a complete guide to using TLS encryption and PKI to deploy secure servers and web applications. Written by Ivan Ristic, 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 professionals, help to understand security risks For system administrators, help to deploy systems securely For developers, help to secure web applications Practical and concise, with added depth as needed Introduction to cryptography and the Internet threat model Coverage of TLS 1.3 as well as earlier protocol versions 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

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