

Apache Essentials Install Configure Maintain Pioneering Series

* Covers the most up-to-date versions of the technology. * Teaches subject using real world tutorials. * Subject is taught in a very concise, no-nonsense fashion, wasting little time on history and other fluff. Book is therefore compact and portable. It gives you just what you need. * Demystifies what is sometimes thought of as an intimidating subject. * Covers Apache for Windows, Mac/Unix, and Linux. * Full book support available online and via e-mail.

Internet Infrastructure: Networking, Web Services, and Cloud Computing provides a comprehensive introduction to networks and the Internet from several perspectives: the underlying media, the protocols, the hardware, the servers, and their uses. The material in the text is divided into concept chapters that are followed up with case study chapters that examine how to install, configure, and secure a server that offers the given service discussed. The book covers in detail the Bind DNS name server, the Apache web server, and the Squid proxy server. It also provides background on those servers by discussing DNS, DHCP, HTTP, HTTPS, digital certificates and encryption, web caches, and the variety of protocols that support web caching. Introductory networking content, as well as advanced Internet content, is also included in chapters on networks, LANs and WANs, TCP/IP, TCP/IP tools, cloud computing, and an examination of the Amazon Cloud Service. Online resources include supplementary content that is available via the textbook's companion website, as well useful resources for faculty and students alike, including: a complete lab manual; power point notes, for installing, configuring, securing and experimenting with many of the servers discussed in the text; power point notes; animation tutorials to illustrate some of the concepts; two appendices; and complete input/output listings for the example Amazon cloud operations covered in the book. This is the official curriculum of Apple's Mavericks 201: OS X Server Essentials 10.9 course and preparation for Apple Certified Technical Coordinator (ACTC) 10.9 certification—as well as a top-notch primer for anyone who needs to implement, administer, or maintain a network that uses OS X Server on Mavericks. This book provides comprehensive coverage of OS X Server and is part of the Apple Pro Training series—the only Apple-certified books on the market. Designed for help desk specialists, technical coordinators, and entry-level system administrators, this guide teaches you how to install and configure OS X Server on Mavericks to provide network-based services. You'll also learn to use tools for efficiently managing and deploying OS X Server. In addition to learning key concepts and experiencing hands-on, practical exercises throughout, the book also covers the learning objectives to help you prepare for the industry-standard ACTC certification. • Provides authoritative explanations of OS X Server setup and management on Mavericks. • Focused lessons take you step by step through practical, real-world exercises. • Lesson review questions summarize what you learn to prepare you for the Apple certification exam. • Lesson files available for download.

A task-oriented look at Linux Mint, using actual real-world examples to stimulate learning. Each topic is presented in an easy-to-follow order, with hands-on activities to reinforce the content. If you are starting out with Linux from a different platform or are well versed with Linux Mint and want a guide that shows you how to exploit certain

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functionality, this book is for you. No previous Linux experience is assumed. If you are a data analyst, developer, or simply someone who wants to use Hive to explore and analyze data in Hadoop, this is the book for you. Whether you are new to big data or an expert, with this book, you will be able to master both the basic and the advanced features of Hive. Since Hive is an SQL-like language, some previous experience with the SQL language and databases is useful to have a better understanding of this book.

The only end-to-end guide to securing Apache Web servers and Web applications Apache can be hacked. As companies have improved perimeter security, hackers have increasingly focused on attacking Apache Web servers and Web applications. Firewalls and SSL won't protect you: you must systematically harden your Web application environment. Preventing Web Attacks with Apache brings together all the information you'll need to do that: step-by-step guidance, hands-on examples, and tested configuration files. Building on his groundbreaking SANS presentations on Apache security, Ryan C. Barnett reveals why your Web servers represent such a compelling target, how significant exploits are performed, and how they can be defended against. Exploits discussed include: buffer overflows, denial of service, attacks on vulnerable scripts and programs, credential sniffing and spoofing, client parameter manipulation, brute force attacks, web defacements, and more. Barnett introduces the Center for Internet Security Apache Benchmarks, a set of best-practice Apache security configuration actions and settings he helped to create. He addresses issues related to IT processes and your underlying OS; Apache downloading, installation, and configuration; application hardening; monitoring, and more. He also presents a chapter-length case study using actual Web attack logs and data captured "in the wild." For every sysadmin, Web professional, and security specialist responsible for Apache or Web application security.

Apache Essentials Install, Configure, Maintain Apress

Get a complete introduction to Salt, the widely used Python-based configuration management and remote execution tool. This practical guide not only shows system administrators how to manage complex infrastructures with Salt, but also teaches developers how to use Salt to deploy and manage their applications. Written by two Salt experts, this book provides the information you need to deploy Salt in a production infrastructure right away. You'll also learn how to customize Salt and use salt-cloud to manage your virtualization. If you have experience with Linux and data formats such as JSON or XML, you're ready to get started. Understand what Salt can do, and get a high-level overview of basic commands Learn how execution modules let you interact with many systems at once Use states to define how you want a host or a set of hosts to look Dive into grains and pillars, Salt's basic data elements Control your infrastructure programmatically by extending Salt Master's functionality Extend Salt with custom modules, the Jinja templating language, and Python scripts

Grails is a full stack framework which aims to greatly simplify the task of building serious web applications for the JVM. The concepts within Grails, like interceptors, tag libs, and Groovy Server Pages (GSP), make those in the Java community feel right at home. Grails' foundation is on solid open source technologies such as Spring, Hibernate, and SiteMesh, which gives it even more potential in the Java space: Spring provides powerful inversion of control and MVC, Hibernate brings a stable, mature

object relational mapping technology with the ability to integrate with legacy systems, and SiteMesh handles flexible layout control and page decoration. Grails complements these with additional features that take advantage of the coding-by-convention paradigm such as dynamic tag libraries, Grails object relational mapping, Groovy Server Pages, and scaffolding. Graeme Rocher, Grails lead and founder, and Jeff Brown bring you completely up-to-date with their authoritative and fully comprehensive guide to the Grails 2 framework. You'll get to know all the core features, services, and Grails extensions via plug-ins, and understand the roles that Groovy and Grails are playing in the changing Web.

Jakarta Tomcat is not only the most commonly used open source servlet engine today, it's become the de facto standard by which other servlet engines are measured.

Powerful and flexible, it can be used as a stand-alone web server or in conjunction with another server, like Apache or IIS, to run servlets or JSPs. But mastery of Tomcat is not easy: because it's as complex as it is complete. Tomcat: The Definitive Guide answers vexing questions that users, administrators, and developers alike have been asking.

This concise guide provides much needed information to help harness Tomcat's power and wealth of features. Tomcat: The Definitive Guide offers something for everyone who uses Tomcat. System and network administrators will find detailed instructions on installation, configuration, and maintenance. For users, it supplies insightful information on how to deploy Tomcat. And seasoned enterprise Java developers will have a complete reference to setting up, running, and using this powerful software. The book begins with an introduction to the Tomcat server and includes an overview of the three types of server configurations: stand-alone, in-process, and out-of-process. The authors show how directories are laid out, cover the initial setup, and describe how to set the environment variables and modify the configuration files, concluding with common errors, problems, and solutions. In subsequent chapters, they cover: The server.xml configuration file Java Security manager Authentication schemes and Tomcat users The Secure Socket Layer (SSL) Tomcat JDBC Realms Installing servlets and Java Server Pages Integrating Tomcat with Apache Advanced Tomcat configuration and much more. Tomcat: The Definitive Guide covers all major platforms, including Windows, Solaris, Linux, and Mac OS X, contains details on Tomcat configuration files, and has a quick-start guide to get developers up and running with Java servlets and JavaServer Pages. If you've struggled with this powerful yet demanding technology in the past, this book will provide the answers you need.

Provides a solid foundation for those considering a career in IT—covers the objectives of the new Linux Essentials Exam 010-160 v1.6 Linux is a secure, reliable, open source alternative to costly operating systems such as Microsoft Windows. As large organizations worldwide continue to add Linux servers, the need for IT professionals skilled in Linux continues to grow. The LPI Linux Essentials Study Guide is a valuable resource for anyone preparing to take the new Linux Essentials Exam—the entry-level certification from The Linux Professional Institute (LPI) which validates knowledge of Linux concepts and applications. Written by recognized experts on Linux and open source technologies, this accessible, user-friendly guide covers desktop skills, the command line, directories and files, networks, scripting, security, users and permissions, and much more. Clear, concise chapters provide numerous hands-on tutorials, real-world examples, color illustrations, and practical end-of-chapter exercises

and review questions. An ideal introduction for those new to Linux or considering a career in IT, this guide helps readers: Learn the operation and components of Linux desktops and servers Understand open source software, licensing, and applications Configure networks, security, cloud services, storage, and devices Create users and groups and set permissions and ownership Use the command line and build automation scripts LPI Linux Essentials Study Guide: Exam 010 v1.6 is perfect for anyone beginning a career in IT, newcomers to Linux, students in computer courses, and system administrators working with other operating systems wanting to learn more about Linux and other open source solutions.

This is one of the first books solely dedicated to Flash 8 Video development and goes a lot deeper into the subject than other books. It is suitable for those with no previous Flash experience who want to discover the best way to create video applications for the Web. It starts with the very basics, and by the end of the book the reader will be creating advanced interactive video applications, using video alpha channels, masking, blends and filters, the Camera object, and much more.

Arguably one of the most highly regarded and widely used enterprise level operating systems available today is the CentOS 8 distribution. Not only is it considered to be among the most stable and reliable operating systems, it is also backed by the considerable resources and technical skills of Red Hat, Inc. CentOS 8 Essentials is designed to provide detailed information on the installation, use and administration of the CentOS 8 distribution. For beginners, the book covers topics such as operating system installation, the basics of the GNOME desktop environment, configuring email and web servers and installing packages and system updates using App Streams. Additional installation topics such as dual booting with Microsoft Windows are also covered, together with all important security topics such as configuring a firewall and user and group administration. For the experienced user, topics such as remote desktop access, the Cockpit web interface, logical volume management (LVM), disk partitioning, swap management, KVM virtualization, Secure Shell (SSH), Linux Containers and file sharing using both Samba and NFS are covered in detail to provide a thorough overview of this enterprise class operating system.

Learn Linux, and take your career to the next level! Linux Essentials, 2nd Edition provides a solid foundation of knowledge for anyone considering a career in information technology, for anyone new to the Linux operating system, and for anyone who is preparing to sit for the Linux Essentials Exam. Through this engaging resource, you can access key information in a learning-by-doing style. Hands-on tutorials and end-of-chapter exercises and review questions lead you in both learning and applying new information—information that will help you achieve your goals! With the experience provided in this compelling reference, you can sit down for the Linux Essentials Exam with confidence. An open source operating system, Linux is a UNIX-based platform that is freely updated by developers. The nature of its development means that Linux is a low-cost and secure alternative to other operating systems, and is used in many different IT environments. Passing the Linux Essentials Exam prepares you to apply your knowledge regarding this operating system within the workforce. Access lessons that are organized by task, allowing you to quickly identify the topics you are looking for and navigate the comprehensive information presented by the book Discover the basics of the Linux operating system, including distributions, types of open source

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applications, freeware, licensing, operations, navigation, and more Explore command functions, including navigating the command line, turning commands into scripts, and more Identify and create user types, users, and groups Linux Essentials, 2nd Edition is a critical resource for anyone starting a career in IT or anyone new to the Linux operating system.

Nginx is an open source and cross-platform reverse proxy server designed for low memory usage and high performance and concurrency. This book provides both basic and in-depth knowledge to help you effectively solve challenges with Nginx, or comfortably go through a transition period when switching to Nginx. Starting with the basics, you will learn by example how to set up, configure, and operate an Nginx installation and use features of Nginx to elegantly solve challenges you experience every day when running your website. You will learn to use the rewrite engine to solve day-to-day tasks and be able to configure access restrictions in Nginx. You will also be able to manage inbound traffic using a number of Nginx features and use Nginx for load balancing and fault-tolerance features. Finally, you will learn how to solve common performance problems and apply a number of performance-tuning strategies. Through easy exploration of the most intricate topics, this book aims to bring you to the next level in your Nginx experience.

Whether you are a novice to ZooKeeper or already have some experience, you will be able to master the concepts of ZooKeeper and its usage with ease. This book assumes you to have some prior knowledge of distributed systems and high-level programming knowledge of C, Java, or Python, but no experience with Apache ZooKeeper is required.

Arguably one of the most highly regarded and widely used enterprise level operating systems available today is the Ubuntu 18.04 distribution. Not only is it considered to be among the most stable and reliable operating systems, it is also backed by the considerable resources and technical skills of Canonical, Ltd. Ubuntu 18.04 Essentials is designed to provide detailed information on the installation, use and administration of the Ubuntu 18.04 distribution. For beginners, the book covers topics such as operating system installation, the basics of the GNOME desktop environment, configuring email and web servers and installing packages and system updates. Additional installation topics such as dual booting with Microsoft Windows are also covered, together with all important security topics such as configuring a firewall and user and group administration. For the experienced user, topics such as remote desktop access, the Cockpit web interface, logical volume management (LVM), disk partitioning, swap management, KVM virtualization, Secure Shell (SSH), Linux Containers and file sharing using both Samba and NFS are covered in detail to provide a thorough overview of this enterprise class operating system.

If you are an experienced network administrator looking for a comprehensive monitoring solution that will keep a watchful eye on networks, then this book is for you.

This book is for anyone who's worked with Clojure and wants to use it to start developing applications for the Web. Experience or familiarity with basic Clojure syntax is a must, and exposure to Leiningen (or other similar build tools such as Maven) would be helpful.

Get started with the essentials of Apache Maven and get your build automation system up and running quickly About This Book Explore the essentials of Apache Maven essentials to arm yourself with all the ingredients needed to develop a comprehensive build automation system Identify the extension points in Apache Maven and learn more about them in-depth Improve developer productivity by optimizing the build process with best practices in Maven using this compact guide Who This Book Is For The book is ideal for for experienced developers who are already familiar with build automation, but want to learn how to use Maven and apply its concepts to the most difficult scenarios in build automation. What You Will Learn Comprehend the key concepts in Apache Maven Build your own custom plugins and get to know how Maven extension points are used Troubleshoot build issues with greater confidence Optimize Maven's

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configuration settings Write custom lifecycles and extensions Get hands-on and create a Maven assembly Explore the best practices to design a build system that improves developer productivity In Detail Maven is the #1 build tool used by developers and it has been around for more than a decade. Maven stands out among other build tools due to its extremely extensible architecture, which is built on of the concept of convention over configuration. It's widely used by many open source Java projects under Apache Software Foundation, Sourceforge, Google Code, and more. Maven Essentials is a fast-paced guide to show you the key concepts in Maven and build automation. We get started by introducing you to Maven and exploring its core concepts and architecture. Next, you will learn about and write a Project Object Model (POM) while creating your own Maven project. You will also find out how to create custom archetypes and plugins to establish the most common goals in build automation. After this, you'll get to know how to design the build to prevent any maintenance nightmares, with proper dependency management. We then explore Maven build lifecycles and Maven assemblies. Finally, you will discover how to apply the best practices when designing a build system to improve developer productivity. Style and approach This book is a practical and compact guide that will show you how to use Apache Maven in an optimal way to address enterprise build requirements. It provides technical guidance to get you started with Maven and build automation.

Describes the history of the Web server platform and covers downloading and compiling, configuring and running the program on UNIX, writing specialized modules, and establishing security routines.

This book provides an introduction to Apache HTTP Server - a free, open-source web server. Apache is the most popular web server software on the Internet; it is estimated that 50% of all active websites use Apache as their web server. You will learn how to download and install Apache HTTP Server on your Windows and Linux system, how to configure Apache as a web server, a proxy server, and a reverse proxy server. You will also learn to set up SSL and password-protect directories on your web server. Later in the book we explain modules and how you can use them to add more features to your web server. The topics covered in this book are: downloading and installing Apache HTTP Server on Ubuntu and Windows understanding Apache configuration files using virtual hosts to hold multiple websites on a single server enabling SSL for secure connections what are modules and how to use them to expand Apache functionality configuring Apache as a forward or reverse proxy redirecting URLs Note that this book uses Ubuntu as an underlying Linux distribution, so some of the commands and configurations files might differ if you are using some other non-Debian based Linux distribution.

* Functions as the most up-to-date beginner's Perl book, current through Perl version 5.8.2. * Covers what a new Perl programmer needs to know, using real-world examples. * Surpasses the first edition; more concise and focused.

Fedora 31 Essentials is designed to provide detailed information on the installation, use and administration of the Fedora 31 distribution. For beginners, the book covers topics such as operating system installation, the basics of the GNOME desktop environment, configuring email and web servers and installing packages and system updates using App Streams. Additional installation topics such as dual booting with Microsoft Windows are also covered, together with all

important security topics such as configuring a firewall and user and group administration. For the experienced user, topics such as remote desktop access, the Cockpit web interface, logical volume management (LVM), disk partitioning, swap management, KVM virtualization, Secure Shell (SSH), Linux Containers and file sharing using both Samba and NFS are covered in detail to provide a thorough overview of this enterprise class operating system.

Apache is far and away the most widely used web server platform in the world. Both free and rock-solid, it runs more than half of the world's web sites, ranging from huge e-commerce operations to corporate intranets and smaller hobby sites, and it continues to maintain its popularity, drawing new users all the time. If you work with Apache on a regular basis, you have plenty of documentation on installing and configuring your server, but where do you go for help with the day-to-day stuff, like adding common modules or fine-tuning your activity logging? The Apache Cookbook is a collection of problems, solutions, and practical examples for webmasters, web administrators, programmers, and everyone else who works with Apache. For every problem addressed in the book, there's a worked-out solution or "recipe"--short, focused pieces of code that you can use immediately. But this book offers more than cut-and-paste code. You also get explanations of how and why the code works, so you can adapt the problem-solving techniques to similar situations. The recipes in the Apache Cookbook range from simple tasks, such as installing the server on Red Hat Linux or Windows, to more complex tasks, such as setting up name-based virtual hosts or securing and managing your proxy server. The two hundred plus recipes in the book cover additional topics such as: Security Aliases, Redirecting, and Rewriting CGI Scripts, the suexec Wrapper, and other dynamic content techniques Error Handling SSL Performance The impressive collection of useful code in this book is a guaranteed timesaver for all Apache users, from novices to advanced practitioners. Instead of poking around mailing lists, online documentation, and other sources, you can rely on the Apache Cookbook for quick solutions to common problems, and then you can spend your time and energy where it matters most.

Combines language tutorials with application design advice to cover the PHP server-side scripting language and the MySQL database engine.

Pro HTML5 and CSS3 Design Patterns is a reference book and a cookbook on how to style web pages using CSS3 and HTML5. It contains 350 ready-to-use patterns (CSS3 and HTML5 code snippets) that you can copy and paste into your code. Each pattern can be combined with other patterns to create an unlimited number of solutions, and each pattern works reliably in all major browsers without the need for browser hacks. The book is completely up-to-date with code, best practices, and browser compatibilities for HTML5 and CSS3—enabling you to dive in and make use of these new technologies in production environments. Pro HTML5 and CSS3 Design Patterns is so much more than just a cookbook, though! It systematically covers every usable feature of CSS3 and combines

these features with HTML5 to create reusable patterns. Each pattern has an intuitive name to make it easy to find, remember, and refer to. Accessibility and best practices are carefully engineered into each design pattern, example, and source code. The book's layout, with a pattern's example on the left page and its explanation on the right, makes it easy to find a pattern and study it without having to flip between pages. The book is also readable from cover to cover, with topics building carefully upon previous topics. Pro HTML5 and CSS3 Design Patterns book unleashes your productivity and creativity in web design and development. Instead of hacking your way toward a solution, you'll learn how to predictably create successful designs every time by reusing and combining modular design patterns.

*Covers over a dozen complex applications with real-world focus *Focuses on teaching the technology, and graphical aspects of Flash examples presented with creative edge *Only book covering integration of Flash and PHP, plus MySQL This is the official curriculum of Apple's Mavericks 201: OS X Server Essentials 10.9 course and preparation for Apple Certified Technical Coordinator (ACTC) 10.9 certification—as well as a top-notch primer for anyone who needs to implement, administer, or maintain a network that uses OS X Server on Mavericks. This book provides comprehensive coverage of OS X Server and is part of the Apple Pro Training series—the only Apple-certified books on the market. Designed for help desk specialists, technical coordinators, and entry-level system administrators, this guide teaches you how to install and configure OS X Server on Mavericks to provide network-based services. You'll also learn to use tools for efficiently managing and deploying OS X Server. In addition to learning key concepts and experiencing hands-on, practical exercises throughout, the book also covers the learning objectives to help you prepare for the industry-standard ACTC certification. • Provides authoritative explanations of OS X Server setup and management on Mavericks. • Focused lessons take you step by step through practical, real-world exercises. • Lesson review questions summarize what you learn to prepare you for the Apple certification exam. • Lesson files available for download.

This book is a step-by-step tutorial for anyone wanting to learn Apache Tomcat 7 from scratch. There are plenty of illustrations and examples to escalate you from a novice to an expert with minimal strain. If you are a J2EE administrator, migration administrator, technical architect, or a project manager for a web hosting domain, and are interested in Apache Tomcat 7, then this book is for you. If you are someone responsible for installation, configuration, and management of Tomcat 7, then too, this book will be of help to you.

* Showcase of the current best design and development work using Macromedia Flash MX 2004. * Inspiring visuals through stellar quality production values. * Brand-leading flagship book—this is the epitome of the "Designer to Designer" promise. * Most advanced Flash design content available. * Over 30,000 copies sold of Volume 1.

Arguably one of the most highly regarded and widely used enterprise level operating systems available today is the Red Hat Enterprise Linux 8 distribution. Not only is it considered to be among the most stable and reliable operating systems, it is also backed by the considerable resources and technical skills of Red Hat, Inc. Red Hat Enterprise Linux 8 Essentials is designed to provide detailed information on the installation, use and administration of the Red Hat Enterprise Linux 8 distribution. For beginners, the book covers topics such as operating system installation, the basics of the GNOME desktop environment, configuring email and web servers and installing packages and system updates using App Streams. Additional installation topics such as dual booting with Microsoft Windows are also covered, together with all important security topics such as configuring a firewall and user and group administration. For the experienced user, topics such as remote desktop access, the Cockpit web interface, logical volume management (LVM), disk partitioning, swap management, KVM virtualization, Secure Shell (SSH), Linux Containers and file sharing using both Samba and NFS are covered in detail to provide a thorough overview of this enterprise class operating system.

Apache Tomcat is the most popular open-source de-facto Java Web application server, standard for today's Web developers using JSP/Servlets. Apache Tomcat 7 covers details on installation and administration of Apache Tomcat 7. It explains key parts of the Tomcat architecture, and provides an introduction to Java Servlet and JSP APIs in the context of the Apache Tomcat server. In addition to basic concepts and administration tasks, Apache Tomcat 7 covers some of the most frequently used advanced features of Tomcat, including security, Apache web server integration, load balancing, and embedding Tomcat server in Java applications. Finally, through a practical primer, it shows how to integrate and use some of the most popular Java technologies with Apache Tomcat. In summary, Apache Tomcat 7 offers both novice and intermediate Apache Tomcat users a practical and comprehensive guide to this powerful software.

Create your own massively scalable Cassandra database with highly responsive database queries About This Book Create a Cassandra cluster and tweak its configuration to get the best performance based on your environment Analyze the key concepts and architecture of Cassandra, which are essential to create highly responsive Cassandra databases A fast-paced and step-by-step guide on handling huge amount of data and getting the best out of your database applications Who This Book Is For If you are a developer who is working with Cassandra and you want to deep dive into the core concepts and understand Cassandra's non-relational nature, then this book is for you. A basic understanding of Cassandra is expected. What You Will Learn Install and set up your Cassandra Cluster using various installation types Use Cassandra Query Language (CQL) to design Cassandra database and tables with various configuration options Design your Cassandra database to be evenly loaded with

the lowest read/write latencies Employ the available Cassandra tools to monitor and maintain a Cassandra cluster Debug CQL queries to discover why they are performing relatively slowly Choose the best-suited compaction strategy for your database based on your usage pattern Tune Cassandra based on your deployment operation system environment In Detail Apache Cassandra Essentials takes you step-by-step from from the basics of installation to advanced installation options and database design techniques. It gives you all the information you need to effectively design a well distributed and high performance database. You'll get to know about the steps that are performed by a Cassandra node when you execute a read/write query, which is essential to properly maintain of a Cassandra cluster and to debug any issues. Next, you'll discover how to integrate a Cassandra driver in your applications and perform read/write operations. Finally, you'll learn about the various tools provided by Cassandra for serviceability aspects such as logging, metrics, backup, and recovery. Style and approach This step-by-step guide is packed with examples that explain the core concepts as well as advanced concepts, techniques, and usages of Apache Cassandra.

This book highlights practical sysadmin skills, common architectures that you'll encounter, and best practices that apply to automating and running systems at any scale, from one laptop or server to 1,000 or more. It is intended to help orient you within the discipline, and hopefully encourages you to learn more about system administration.

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