

## Practical Ruby For System Administration Experts Voice In

Practical Ruby for System AdministrationApress

Practical Ruby on Rails Social Networking Sites shows you the complete development cycle of a social networking community web site. You will learn how to make the best use of the Ruby on Rails framework within a large project and how to implement and adapt features specific to a community. The book offers practical advice and tips for developing and testing, along with guidance on how to take your site live, as well as optimize and maintain it. It also explores how to integrate with other community sites and how to make good use of Rails' Ajax features. You will also learn how to optimize and adapt your site to work well on mobile browsers.

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Take full advantage of Heroku's cloud-based hosting services. This guide takes you through the inner workings of this PaaS platform and delivers practical advice for architecting your application to work as efficiently as possible. You'll learn best practices for improving speed and throughput, solving latency issues, locating and fixing problems if your application goes down, and ensuring your deployments go smoothly. By covering everything from basic concepts and primary components to add-on services and advanced topics such as buildpacks, this book helps you effectively deploy and manage your application with Heroku. Learn your way around Heroku with the command line interface Discover several methods for scaling your application to increase throughput Speed up response time through performance optimizations Solve latency issues by deploying your Heroku instance in new regions Choose the right plan for using Heroku's PostgreSQL database-as-a-service Get a checklist of items to consider when deploying your application Find and fix problems during deployment, at runtime, and when your application goes down Understand how Heroku buildpacks work, and learn how customize your own

This book is a comprehensive guide to utilizing and creating Ruby Gems. Coverage provides an enormous code library that will help developers improve their projects. It details 34 of the best and most useful Gems, including ones to speed up web applications, process credit card payments, produce PDF documents, read and update RSS feeds, and acquire real-time shipping prices from FedEx and UPS. Each of these also comes complete with actual use cases and code examples that readers can immediately use in their own projects. In addition, the book describes how readers can package and distribute their own Ruby Gems.

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In this book, JRuby core developer Ola Bini covers everything you need to know to take full advantage of what JRuby has to offer. It provides complete coverage on how to use JRuby to create web applications faster and more efficiently, while continuing to take advantage of the vast power of the Java platform. The book also provides several real-world projects that illustrate the crucial specifics you need to know about the interaction of Java and Ruby. In addition, it offers helpful, practical instruction and discussion on how web applications can be deployed using

a variety of popular servers such as Apache and Mongrel.

Ruby is a high-level, fully object-oriented programming (OOP) language. It is very powerful and relatively easy to learn, read, and maintain. Sams Teach Yourself Ruby in 21 Days provides the best introduction to this language and addresses one of the key constraints it faces: "The paucity of quality English-language documentation is one of the few things holding Ruby back from widespread adoption," according to Dr. Curtis Clifton of Iowa State University's Department of Graduate Computer Science.

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Competent system administrators know their success hinges upon being able to perform often tedious tasks with rigor and punctuality. Such metrics are often achieved only by instituting a considerable degree of automation, something that has become even more crucial as IT environments continue to scale both in terms of size and complexity. One of the most powerful system administration tools to be released is Puppet, a solution capable of automating nearly every aspect of a system administrator's job, from user management, to software installation, to even configuring server services such as FTP and LDAP. Pulling Strings with Puppet: Configuration Management Made Easy is the first book to introduce the powerful Puppet system administration tool. Author James Turnbull will guide you through Puppet's key features, showing you how to install and configure the software, create automated Puppet tasks, known as recipes, and even create reporting solutions and extend Puppet further to your own needs. A bonus chapter is included covering the Facter library, which makes it a breeze to automate the retrieval of server configuration details such as IP and MAC addresses.

"The Ruby on Rails 3 Tutorial and Reference Collection" consists of two bestselling Rails eBooks: "Ruby on Rails 3 Tutorial: Learn Rails by Example" by Michael Hartl "The Rails 3 Way" by Obie Fernandez In "Ruby on Rails 3 Tutorial" leading Rails developer Michael Hartl teaches Rails 3 by guiding you through the development of your own complete sample application using the latest techniques in Rails Web development. Drawing on his experience building RailsSpace, Insoshi, and other sophisticated Rails applications, Hartl illuminates all facets of design and implementation-including powerful new techniques that simplify and accelerate development. Hartl explains how each new technique solves a real-world problem and demonstrates this with bite-sized code that's simple enough to understand, yet novel enough to be useful. "The Rails 3 Way" is the only comprehensive, authoritative guide to delivering production-quality code with Rails 3. Pioneering Rails expert Obie Fernandez and a team of leading experts illuminate the entire Rails 3 API, along with the idioms, design approaches, and libraries that make developing applications with Rails so powerful. You learn advanced Rails programming techniques that have been proven effective in day-to-day usage on dozens of production Rails systems. Dive deep into the Rails 3 codebase and discover why Rails is designed the way it is-and how to make it do what you want it to do. This collection helps you Install and set up your Rails development environment Go beyond generated code to truly understand how to build Rails applications from scratch Learn Test Driven Development (TDD) with RSpec Effectively use the Model-View-Controller (MVC) pattern Structure applications using the REST architecture Build static pages and transform them into dynamic ones Master the Ruby programming skills all Rails developers need Define high-quality site layouts and data models Implement registration and authentication systems, including validation and secure passwords Update, display, and delete users Add social features and microblogging, including an introduction to Ajax Record version changes with Git and share code at GitHub Simplify application deployment with Heroku Learn what's new in Rails 3 Increase your productivity as a Web application developer Realize the overall joy in programming with Rails Leverage Rails' powerful capabilities for building REST-compliant APIs Drive implementation and protect long-term maintainability using RSpec Design and manipulate your domain layer using Active Record Understand and program complex program

flows using Action ControllerMaster sophisticated URL routing conceptsUse Ajax techniques via Rails 3 support for unobtrusive JavaScriptLearn to extend Rails with popular gems and plugins and how to write your own Extend Rails with the best third-party plug-ins and write your ownIntegrate email services into your applications with Action MailerImprove application responsiveness with background processingCreate your own non-Active Record domain classes using Active ModelMaster Rails' utility classes and extensions in Active Support

Ruby is a free and powerful programming language that can be used to develop programs to meet nearly any programming challenge, including scripting, application programming and Web development. This new text teaches Ruby programming through a lively hands-on approach and a focus on game development. Students begin by learning the fundamentals of computer programming and will move on to mastering the concepts and principles involved in Ruby programming. Topics covered include formulating regular expressions, basic debugging techniques, and performing file and folder administration. For those students interested in learning how to do Web development with Ruby using Ruby on Rails, this book also provides the necessary prerequisite foundation and introduction. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Take advantage of Chef's highly customizable design to tackle specific automation issues that you can't solve by simply using Chef's tools, resources, and services out of the box. With this practical guide, you'll examine the internal structure of this configuration management technology and learn where, how, and why to add custom code. Author Jon Cowie not only provides code snippets and practical advice for customizing Chef, but also helps you determine case by case whether it's in your best interests to customize at all. If you have intermediate-to-advanced Chef experience, this book is indispensable. Explore Chef's typical setups and why you'd want to customize them Learn the Ruby concepts needed to write customizations Customize the Chef run process and explore Chef's internal classes Gain more insight into your Chef runs through handlers and Chef's event stream Level up your Chef recipes by writing your own resources and providers Create and extend plugins for Knife—Chef's command-line tool Interact with the Chef API to write scripts and reports Learn how to contribute customizations to the Chef community

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The Chinese translated version of Lauren Ipsum: A Story about Computer Science and Other Improbable Things by Carlos Bueno. This book is A looking glass tale for the computer age" noted by School Library Journal.

Research reports and references to published literature under 10 major categories, e.g., Drug education research, Pharmacy practice research, and Pharmaceutical manpower research. Each category contains overview, descriptions of specific projects, and listing (with annotations) of selected references. Author and project director index.

Within the pages of Practical Ruby for System Administration, you'll learn the Ruby way to construct files, tap into clouds of data, build domain-specific languages, perform network traffic analysis, and more. Coverage places equal emphasis

on fundamental Ruby concepts as well as practical how-tos. Based on author André Ben Hamou's own experiences working as a system administrator, this book will help you pick up practical tips on Ruby coding style, learn how to analyze and improve script performance, and make use of no-nonsense advice on scripting workflow, including testing, documentation, and version control.

Pro Python System Administration, Second Edition explains and shows how to apply Python scripting in practice. It will show you how to approach and resolve real-world issues that most system administrators will come across in their careers. This book has been updated using Python 2.7 and Python 3 where appropriate. It also uses various new and relevant open source projects and tools that should now be used in practice. In this updated edition, you will find several projects in the categories of network administration, web server administration, and monitoring and database management. In each project, the author will define the problem, design the solution, and go through the more interesting implementation steps. Each project is accompanied by the source code of a fully working prototype, which you'll be able to use immediately or adapt to your requirements and environment. This book is primarily aimed at experienced system administrators whose day-to-day tasks involve looking after and managing small-to-medium-sized server estates. It will also be beneficial for system administrators who want to learn more about automation and want to apply their Python knowledge to solve various system administration problems. Python developers will also benefit from reading this book, especially if they are involved in developing automation and management tools.

Examines the ins and outs of the computer science industry, providing tips for success, an in-depth glossary of industry jargon, and an overview of the current state of the industry.

If you do systems administration work of any kind, you have to deal with the growing complexity of your environment and increasing demands on your time. Automating System Administration with Perl, Second Edition, not only offers you the right tools for your job, but also suggests the best way to approach specific problems and to securely automate recurring tasks. Updated and expanded to cover the latest operating systems, technologies, and Perl modules, this edition of the "Otter Book" will help you: Manage user accounts Monitor filesystems and processes Work with configuration files in important formats such as XML and YAML Administer databases, including MySQL, MS-SQL, and Oracle with DBI Work with directory services like LDAP and Active Directory Script email protocols and spam control Effectively create, handle, and analyze log files Administer network name and configuration services, including NIS, DNS and DHCP Maintain, monitor, and map network services, using technologies and tools such as SNMP, nmap, libpcap, GraphViz and RRDtool Improve filesystem, process, and network security This edition includes additional appendixes to get you up to speed on technologies such as XML/XPath, LDAP, SNMP, and SQL. With this book in hand and Perl in your toolbox, you can do more with less -- fewer resources, less effort, and far less hassle.

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The non-technical guide to building a booming tech-enabled business Thinking of starting a technology-enabled business? Or maybe you just want to increase your technology mojo so you can do your job better? You do not need to learn programming to participate in the

development of today's hottest technologies. But there are a few easy-to-grasp foundation concepts that will help you engage with a technical team. Starting a Tech Business explains in practical, actionable terms how to formulate and reality test new ideas package what you learn into frameworks that are highly actionable for engineers understand key foundation concepts about modern software and systems participate in an agile/lean development team as the 'voice of the customer' Even if you have a desire to learn to program (and I highly recommend doing whatever unlocks your 'inner tinkerer'), these foundation concepts will help you target what exactly you want to understand about hands-on technology development. While a decade ago the barriers to creating a technology-enabled business required a pole vault, getting started today only requires a determined step in the right direction. Starting a Tech Business supplies the tools prospective entrepreneurs and business enterprises need to avoid common pitfalls and succeed in the fast-paced world of high-tech business. Successful execution requires thoughtful, evidence-based product formulation, well-articulated design, economic use of systems, adaptive management of technical resources, and empathetic deployment to customers. Starting a Tech Business offers practical checklists and frameworks that business owners, entrepreneurs, and professionals can apply to any tech-based business idea, whether you're developing software and products or beginning a technology-enabled business. You'll learn: 1. How to apply today's leading management frameworks to a tech business 2. How to package your product idea in a way that's highly actionable for your technical team 3. How to ask the right questions about technology selection and product architecture 4. Strategies to leverage what your technology ecosystem has to offer 5. How to carefully define the roles on your team, and then effectively evaluate candidates 6. The most common disconnects between engineers and business people and how to avoid them 7. How you can apply process design to your tech business without stifling creativity 8. The steps to avoid the most common pitfalls tech founders encounter Now is one of the best times to start a technology-enabled business, and anyone can do it with the right amount and kind of preparation. Starting a Tech Business shows you how to move a product idea to market quickly and inexpensively—and to tap into the stream of wealth that a tech business can provide.

This book constitutes the proceedings of the 17th Brazilian Symposium on Programming Languages, SBLP 2013, held in Brasília, Brazil, in September/October 2013. The 10 full and 2 keynote talks were carefully reviewed and selected from 31 submissions. The papers are organized in topical sections on program generation and transformation, including domain-specific languages and model-driven development in the context of programming languages, programming paradigms and styles, including functional, object-oriented, aspect-oriented, scripting languages, real-time, service-oriented, multithreaded, parallel, and distributed programming, formal semantics and theoretical foundations, including denotational, operational, algebraic and categorical, program analysis and verification, including type systems, static analysis and abstract interpretation, and programming language design and implementation, including new programming models, programming language environments, compilation and interpretation techniques.

This book provides intermediate Rails users with an essential learning aid to take them to higher level, teaching them countless real world techniques via a series of practical project-based chapters. Each chapter takes the reader through the complete process of building up a full-functional Rails web application. Projects taught in the book include a blog, a REST-based task manager, an online IT help desk, a web comic (including image upload facilities,) Wiki, and much more. Techniques learned include speeding up development with plugins, engines and Ruby Gems, styling with CSS libraries, and adding dynamism using Ajax.

Revitalized by Ruby on Rails, the Ruby language continues to grow in popularity. Books like this are necessary to fill the demand.

Here is a classic of its kind; required reading for Ruby programmers who have already mastered the basics and want to learn higher level techniques. Practical Ruby Projects presents nine diverse projects that will teach new and innovative techniques in a learn-by-example fashion. They include a turn-based adventure game and a generative music creator. While there are many other Ruby titles, none of them take this unique project-based approach to teaching.

The Rails framework empowers developers with unprecedented levels of productivity by embracing principles such as “convention over configuration” and “don’t repeat yourself”. This paradigm is even apparent at the community level, where developers regularly share their custom framework extensions by way of Rails’ plugins feature. Plugins offer a way for developers to extend the core Rails framework with their own custom features, allowing for rapid integration of features such as authentication, user ratings, and search. Practical Rails Plugins shows you how to capitalize upon the wide variety of plugins at your disposal by guiding you through their integration into a number of interesting projects. You’ll learn how to rapidly augment projects involving asynchronous video transcoding, geocoding and mapping, content management, community ratings, and PDF generation. You’ll also learn how to create and distribute your own plugins. The ultimate guide to building powerful web sites faster using Rails plugins Demonstrates how to use popular plugins within a number of practical (and fully functional) projects and mini-applications Shows you how to create and distribute your own plugins

A guide to Ruby programming covers such topics as working with objects, strings, and variables; implementing conditional logic; working with Regular Expressions; object-oriented programming; and debugging.

Holography and optical filtering techniques for structural analysis, material tests, and astronomical observation - conference. Investigate and solve problems with Nginx-powered websites using a deep understanding of the underlying principles About This Book Solve problems with your Nginx-powered websites before your audience notices anything Peek into the Nginx architecture and gain knowledge that will help you be valuable to you in the long run Gain knowledge of different types of problems in a step-by-step way Who This Book Is For The book is for technical specialists who already use Nginx to serve web pages for their users. Whether you are an experienced system administrator or a new professional, this book will help you do your job in the most efficient way. What You Will Learn Detect and investigate problems with your web servers Create correct and professional configuration files Get an in-depth understanding of the web server software Interpret Nginx log files easily and with actionable insights Make your websites respond as fast as possible Prevent problems by setting up proper monitoring and alerts In Detail Nginx is clearly winning the race to be the dominant software to power modern websites. It is fast and open source, maintained with passion by a brilliant team. This book will help you maintain your Nginx instances in a healthy and predictable state. It will lead you through all the types of problems you might encounter as a web administrator, with a special focus on performance and migration from older software. You will learn how to write good configuration files and will get good insights into Nginx logs. It will provide you solutions to problems such as missing or broken functionality and also show you how to tackle performance issues with the Nginx server. A special chapter is devoted to the art of prevention, that is, monitoring and alerting services you may use to

detect problems before they manifest themselves on a big scale. The books ends with a reference to error and warning messages Nginx could emit to help you during incident investigations. Style and approach This comprehensive tutorial on Nginx troubleshooting takes an practical approach to guiding you through common issues in Nginx server.

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