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*Jakarta Tomcat is not only the most
commonly used open source servlet engine
today, it's become the de facto standard by*

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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

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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

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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

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*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.*

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A pocket guide jam-packed with useful and essential code 'phrases' For The Apache administrator's everyday use.

Success on the web is measured by usage and growth. Web-based companies live or die by the ability to scale their infrastructure to accommodate increasing demand. This book is a hands-on and practical guide to planning for such growth, with many techniques and considerations to help you plan, deploy, and manage web application infrastructure. The Art of Capacity Planning is written by the

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manager of data operations for the world-famous photo-sharing site Flickr.com, now owned by Yahoo! John Allspaw combines personal anecdotes from many phases of Flickr's growth with insights from his colleagues in many other industries to give you solid guidelines for measuring your growth, predicting trends, and making cost-effective preparations. Topics include: Evaluating tools for measurement and deployment Capacity analysis and prediction for storage, database, and application servers

Designing architectures to easily add and measure capacity Handling sudden spikes Predicting exponential and explosive growth How cloud services such as EC2 can fit into a capacity strategy In this book, Allspaw draws on years of valuable experience, starting from the days when Flickr was relatively small and had to deal with the typical growth pains and cost/performance trade-offs of a typical company with a Web presence. The advice he offers in The Art of Capacity Planning will not only help you prepare for explosive growth, it

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will save you tons of grief.

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.

Learning Spark

Big Data Processing Made Simple

grep Pocket Reference

Big Data Processing with Apache Spark

Hands-On Deep Learning with Apache Spark

Apache Pocket Ref

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Data is bigger, arrives faster, and comes in a variety of formats—and it all needs to be processed at scale for analytics or machine learning. But how can you process such varied workloads efficiently? Enter Apache Spark. Updated to include Spark 3.0, this second edition shows data engineers and data scientists why structure and unification in Spark matters. Specifically, this book explains how to perform simple and complex data analytics and employ machine learning algorithms. Through step-by-step walk-

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***throughs, code snippets, and notebooks,
you'll be able to: Learn Python, SQL,
Scala, or Java high-level Structured APIs
Understand Spark operations and SQL Engine
Inspect, tune, and debug Spark operations
with Spark configurations and Spark UI
Connect to data sources: JSON, Parquet,
CSV, Avro, ORC, Hive, S3, or Kafka Perform
analytics on batch and streaming data
using Structured Streaming Build reliable
data pipelines with open source Delta Lake
and Spark Develop machine learning
pipelines with MLlib and productionize***

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models using MLflow
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***This is a pocket reference for getting
started Raspberry Pi. **TOC** 1.***

Introduction to Raspberry Pi 1.1 Raspberry

Pi 1.2 Getting Hardware 2. Raspberry Pi

Software 2.1 Raspberry Pi Operating System

2.2 Installing Raspberry Pi OS 2.2.1 Setup

SD Card 2.2.2 Booting 3. Basic

Configuration 3.1 Configure Timezone 3.2

Configure Keyboard 3.3 Rebooting 3.4

Shutdown 3.5 Update Package Repository 3.6

Change Password 4. Networking 4.1

Connecting to Network 4.1.1 LAN 4.1.2 WIFI

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**4.2 Configuring IP Address 4.3 Static IP
Address 4.4 Browsing Internet 4.5 SSH 5.
Development Environment 5.1 Python 5.2
C/C++ 5.3 Node.js 6. Creating a LAMP
Server 6.1 Installing Apache Server 6.2
Installing MySQL 6.3 Installing PHP and
MySQL Driver for PHP 6.4 Testing PHP 6.5
Testing PHP and MySQL**

**Apache remains the most widely used Web
server platform, running more than half of
the world's Web sites. This pocket
reference guide features up-to-date
information for Apache administrators.**

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***A guide to the syntax and semantics of
regular expressions for Perl 5.8, Ruby,
Java, PHP, C#, .NET, Python, JavaScript,
and PCRE.***

Commands and File Formats

Apache Cookbook

***Efficiently tackle large datasets and big
data analysis with Spark and Python***

Regular Expression Pocket Reference

C Syntax and Fundamentals

HTTP Pocket Reference

No need to spend hours ploughing through endless
data - let Spark, one of the fastest big data

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processing engines available, do the hard work for you. Key FeaturesGet up and running with Apache Spark and PythonIntegrate Spark with AWS for real-time analyticsApply processed data streams to machine learning APIs of Apache SparkBook Description Processing big data in real time is challenging due to scalability, information consistency, and fault-tolerance. This book teaches you how to use Spark to make your overall analytical workflow faster and more efficient. You'll explore all core concepts and tools within the Spark ecosystem, such as Spark Streaming, the Spark Streaming API, machine learning extension, and structured streaming. You'll begin by learning data processing

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fundamentals using Resilient Distributed Datasets (RDDs), SQL, Datasets, and Dataframes APIs. After grasping these fundamentals, you'll move on to using Spark Streaming APIs to consume data in real time from TCP sockets, and integrate Amazon Web Services (AWS) for stream consumption. By the end of this book, you'll not only have understood how to use machine learning extensions and structured streams but you'll also be able to apply Spark in your own upcoming big data projects. What you will learn

Write your own Python programs that can interact with Spark
Implement data stream consumption using Apache Spark
Recognize common operations in Spark to process known data

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streamsIntegrate Spark streaming with Amazon Web
Services (AWS)Create a collaborative filtering model

with the movielens datasetApply processed data
streams to Spark machine learning APIsWho this
book is for Data Processing with Apache Spark is for
you if you are a software engineer, architect, or IT
professional who wants to explore distributed
systems and big data analytics. Although you don't
need any knowledge of Spark, prior experience of
working with Python is recommended.

Covers topics including HTTP methods and status
codes, optimizing proxies, designing web crawlers,
content negotiation, and load-balancing strategies.
"If you're a developer trying to figure out why your

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application is not responding at 3 am, you need this book! This is now my go-to book when diagnosing production issues. It has saved me hours in troubleshooting complicated operations problems.”

–Trotter Cashion, cofounder, Mashion DevOps can help developers, QAs, and admins work together to solve Linux server problems far more rapidly, significantly improving IT performance, availability, and efficiency. To gain these benefits, however, team members need common troubleshooting skills and practices. In DevOps Troubleshooting: Linux Server Best Practices , award-winning Linux expert Kyle Rankin brings together all the standardized, repeatable techniques your team needs to stop finger-

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pointing, collaborate effectively, and quickly solve virtually any Linux server problem. Rankin walks you through using DevOps techniques to troubleshoot everything from boot failures and corrupt disks to lost email and downed websites. You'll master indispensable skills for diagnosing high-load systems and network problems in production environments. Rankin shows how to Master DevOps' approach to troubleshooting and proven Linux server problem-solving principles Diagnose slow servers and applications by identifying CPU, RAM, and Disk I/O bottlenecks Understand healthy boots, so you can identify failure points and fix them Solve full or corrupt disk issues that prevent disk writes Track

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down the sources of network problems Troubleshoot DNS, email, and other network services Isolate and diagnose Apache and Nginx Web server failures and slowdowns Solve problems with MySQL and Postgres database servers and queries Identify hardware failures—even notoriously elusive intermittent failures Simple, to the point, and compact--in fact, exactly what you've come to expect in an O'Reilly Pocket Reference--the second edition of PHP Pocket Reference is thoroughly updated to include the specifics of PHP 4. Written by the founder of the PHP Project, Rasmus Lerdorf, PHP Pocket Reference is both a handy introduction to PHP syntax and structure, and a quick reference to the vast array of

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functions provided by PHP. The quick reference section organizes all the core functions of PHP alphabetically so you can find what you need easily; the slim size means you can keep it handy beside your keyboard for those times when you want to look up a function quickly without closing what you're doing. This valuable little book provides an authoritative overview of PHP packed into a pocket-sized guide that's easy to take anywhere. It is also the ideal companion for O'Reilly's comprehensive book on PHP, *Programming PHP*. The PHP Pocket Reference an indispensable (and inexpensive) tool for any serious PHP coder.

Data Pipelines with Apache Airflow

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DevOps Troubleshooting
Server-Side Java Development

C Pocket Reference

Spark: The Definitive Guide

Pocket Reference: Raspberry Pi

An intermediate-to-advanced users guide to PHP, the Web scripting language in use on over six million Web sites. An excellent companion book to the "PHP Visual QuickStart Guide." The book focuses specifically on real-life PHP projects, as determined by frequent PHP questions asked in newsgroups, e-mails, chat rooms, and Web sites.

Covers command-line options, configuration directives, modules, and Apache support utilities.

This is a collection of problems, solutions, and practical examples

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for webmasters, web administrators, programmers, and anyone who works with Apache.

Learn how to use, deploy, and maintain Apache Spark with this comprehensive guide, written by the creators of the open-source cluster-computing framework. With an emphasis on improvements and new features in Spark 2.0, authors Bill Chambers and Matei Zaharia break down Spark topics into distinct sections, each with unique goals. You'll explore the basic operations and common functions of Spark's structured APIs, as well as Structured Streaming, a new high-level API for building end-to-end streaming applications. Developers and system administrators will learn the fundamentals of monitoring, tuning, and debugging Spark, and explore machine learning techniques and scenarios for employing MLlib, Spark's scalable machine-learning library. Get a gentle

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overview of big data and Spark Learn about DataFrames, SQL, and Datasets Spark's core APIs through worked examples Dive into Spark's low-level APIs, RDDs, and execution of SQL and DataFrames Understand how Spark runs on a cluster Debug, monitor, and tune Spark clusters and applications Learn the power of Structured Streaming, Spark's stream-processing engine Learn how you can apply MLlib to a variety of problems, including classification or recommendation

Scaling Web Resources

Essential System Administration Pocket Reference

Create scalable pipelines that ingest, curate, and aggregate complex data in a timely and secure way

The Art of Capacity Planning

Data Pipelines Pocket Reference

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Ant

There's nothing that hard-core Unix and Linux users are more fanatical about than their text editor. Editors are the subject of adoration and worship, or of scorn and ridicule, depending upon whether the topic of discussion is your editor or someone else's. vi has been the standard editor for close to 30 years. Popular on Unix and Linux, it has a growing following on Windows systems, too. Most experienced system administrators cite vi as their tool of choice. And since 1986, this book has been the guide for vi. However, Unix systems are not what they were 30 years ago,

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and neither is this book. While retaining all the valuable features of previous editions, the 7th edition of Learning the vi and vim Editors has been expanded to include detailed information on vim, the leading vi clone. vim is the default version of vi on most Linux systems and on Mac OS X, and is available for many other operating systems too. With this guide, you learn text editing basics and advanced tools for both editors, such as multi-window editing, how to write both interactive macros and scripts to extend the editor, and power tools for programmers -- all in the easy-to-follow style that

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has made this book a classic. Learning the vi and vim Editors includes: A complete introduction to text editing with vi: How to move around vi in a hurry Beyond the basics, such as using buffers vi's global search and replacement Advanced editing, including customizing vi and executing Unix commands How to make full use of vim: Extended text objects and more powerful regular expressions Multi-window editing and powerful vim scripts How to make full use of the GUI version of vim, called gvim vim's enhancements for programmers, such as syntax highlighting, folding and extended tags Coverage of three

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other popular vi clones -- nvi, elvis, and vile -- is also included. You'll find several valuable appendixes, including an alphabetical quick reference to both vi and ex mode commands for regular vi and for vim, plus an updated appendix on vi and the Internet. Learning either vi or vim is required knowledge if you use Linux or Unix, and in either case, reading this book is essential. After reading this book, the choice of editor will be obvious for you too.

If you're a Unix system administrator, then the information you need every day just to get your job done could fill a book--a very large book. But,

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practically speaking, you don't want to stop and thumb through a weighty volume each time a problem arises. Your answer is the Essential System Administration Pocket Reference, the only system administration reference that fits in your pocket. Concise and easy-to-use, this little book is the portable companion to the classic Essential System Administration by Aileen Frisch. The Essential System Administration Pocket Reference is a quick reference to all the fundamental and essential tasks required to run such divergent Unix systems as Solaris, Linux, AIX, BSD, SuSe, Red Hat, and more. Beginners and experienced

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administrators alike will quickly be able to apply its principles and advice to solve everyday problems. The book is divided into three parts: Commands, Syntax and Their Applications, Configuration Files and Formats, and Operating System Specific Information. The information in this book is a must-have for any administrator or user of a Unix system. O'Reilly's Pocket References have become a favorite among technology professionals everywhere. By providing a wealth of important details in a concise, well-organized format, these handy books deliver just what you need to complete the

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task at hand. When you've reached a sticking point and need to get to a solution quickly, the new Essential System Administration Pocket Reference is the book you'll want to have.

A variety of popular, platform-neutral tools are examined and used in an array of examples. An entire chapter is dedicated to Perl. Part tutorial, part reference manual. Department.

C is one of the oldest programming languages and still one of the most widely used. Whether you're an experienced C programmer or you're new to the language, you know how frustrating it can be to hunt through hundreds of pages in your

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reference books to find that bit of information on a certain function, type or other syntax element.

Or even worse, you may not have your books with you. Your answer is the C Pocket Reference.

Concise and easy to use, this handy pocket guide to C is a must-have quick reference for any C programmer. It's the only C reference that fits in your pocket and is an excellent companion to O'Reilly's other C books. Ideal as an introduction for beginners and a quick reference for advanced programmers, the C Pocket Reference consists of two parts: a compact description of the C language and a thematically structured reference

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to the standard library. The representation of the language is based on the ANSI standard and includes extensions introduced in 1999. An index is included to help you quickly find the information you need. This small book covers the following: C language fundamentals Data types Expressions and operators C statements Declarations Functions Preprocessor directives The standard library O'Reilly's Pocket References have become a favorite among programmers everywhere. By providing a wealth of important details in a concise, well-organized format, these handy books deliver just what you need to

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complete the task at hand. When you've reached a sticking point in your work and need to get to a solution quickly, the new C Pocket Reference is the book you'll want to have.

Learning MySQL

Majordomo, LISTSERV, Listproc, and SmartList

Learning the Vi and Vim Editors

Use a Single Programming Model for Both Batch and Streaming Use Cases

Tomcat: The Definitive Guide

Oracle Corporation has broadened its development platform, integrating open standards such as Java and XML into the heart of the Oracle 8i database. This extended

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programming environment continues to exploit the qualities of scalability, reliability and efficiency of the world's most successful data management software, but at the same time it provides new challenges and opportunities to programmers.

Introduces the build tool for Java application development, covering both user defined and built-in tasks.

For many users, working in the UNIX environment means using vi, a full-screen text editor available on most UNIX systems. Even those who know vi often make use of only a small number of its features. The vi Editor Pocket Reference is a companion volume to O'Reilly's updated sixth edition of Learning the vi Editor, a complete guide to text editing with vi. New topics in Learning the vi Editor

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include multi-screen editing and coverage of four vi clones: vim, elvis, nvi, and vile. This small book is a handy reference guide to the information in the larger volume, presenting movement and editing commands, the command-line options, and other elements of the vi editor in an easy-to-use tabular format.

Speed up the design and implementation of deep learning solutions using Apache Spark Key Features Explore the world of distributed deep learning with Apache Spark Train neural networks with deep learning libraries such as BigDL and TensorFlow Develop Spark deep learning applications to intelligently handle large and complex datasets Book Description Deep learning is a subset of machine learning where datasets with several layers of complexity can be

processed. Hands-On Deep Learning with Apache Spark addresses the sheer complexity of technical and analytical parts and the speed at which deep learning solutions can be implemented on Apache Spark. The book starts with the fundamentals of Apache Spark and deep learning. You will set up Spark for deep learning, learn principles of distributed modeling, and understand different types of neural nets. You will then implement deep learning models, such as convolutional neural networks (CNNs), recurrent neural networks (RNNs), and long short-term memory (LSTM) on Spark. As you progress through the book, you will gain hands-on experience of what it takes to understand the complex datasets you are dealing with. During the course of this book, you will use popular deep

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learning frameworks, such as TensorFlow, Deeplearning4j, and Keras to train your distributed models. By the end of this book, you'll have gained experience with the implementation of your models on a variety of use cases. What you will learn Understand the basics of deep learning Set up Apache Spark for deep learning Understand the principles of distribution modeling and different types of neural networks Obtain an understanding of deep learning algorithms Discover textual analysis and deep learning with Spark Use popular deep learning frameworks, such as Deeplearning4j, TensorFlow, and Keras Explore popular deep learning algorithms Who this book is for If you are a Scala developer, data scientist, or data analyst who wants to learn how to use Spark for implementing

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efficient deep learning models, Hands-On Deep Learning with Apache Spark is for you. Knowledge of the core machine learning concepts and some exposure to Spark will be helpful.

Solutions and Examples for Apache Administration

PHP Advanced for the World Wide Web

Professional Apache

vi Editor Pocket Reference

Apache 2 Pocket Reference

Apache Phrasebook

Apache 2 Pocket Reference For Apache Programmers & Administrators "O'Reilly Media, Inc."

Describes the features and functions of Apache Hive, the

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data infrastructure for Hadoop.

The HyperText Transfer Protocol, or HTTP, is the backbone of the World Wide Web. HTTP is the language that each web browser (or other web client) uses to communicate with servers around the world. All web programmers, administrators, and application developers need to be familiar with HTTP in order to work effectively. The HTTP Pocket Reference not only provides a solid conceptual foundation of HTTP, it also serves as a quick reference to each of the headers and status codes that comprise an HTTP transaction. The book starts with a tutorial of HTTP, but then explains the client request and server responses in more detail, and

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gives a thorough technical explanation of more advanced features of HTTP (such as persistent connections and caching). Most people use the Web every day without knowing anything about HTTP, but for those who need to get "beyond the browser," this book is the place to start. XSLT is an essential tool for converting XML into other kinds of documents: HTML, PDF file, and many others. It's a critical technology for XML-based platforms such as Microsoft .NET, Sun Microsystems' Sun One, as well as for most web browsers and authoring tools. As useful as XSLT is, however, most people have a difficult time getting used to its peculiar characteristics. The ability to use advanced techniques depends on a clear and exact

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understanding of how XSLT templates work and interact. The XSLT 1.0 Pocket Reference from O'Reilly wants to make sure you achieve that level of understanding. With its concise approach, this handy pocket guide quickly gets you up to speed on XSLT 1.0 so you can convert XML like a seasoned pro. In addition to covering the basics of stylesheet structure, it also explains how to: use template rules create a result tree apply conditional processing transform multiple source documents employ number formatting Thanks to their convenient, quick-reference format, O'Reilly's Pocket References spare you from having to hunt through larger books for answers. They deliver just what you need to get the job

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done in a timely fashion. And the XSLT 1.0 Pocket Reference is no different--it's the ideal companion to have at your desk when you need an answer fast.

Ruby Pocket Reference

Pocket Reference

Data Engineering with Apache Spark, Delta Lake, and Lakehouse

Programming Hive

Build and deploy distributed deep learning applications on Apache Spark

Regular Expressions for Perl, Ruby, PHP, Python, C, Java and .NET

Although Ruby is an easy language to learn, in

the heat of action you may find that you can't remember the correct syntax for a conditional or the name of a method. This handy pocket reference offers brief yet clear explanations of Ruby's core components, from operators to reserved words to data structures to method syntax, highlighting those key features that you'll likely use every day when coding Ruby. Whether you've come to Ruby because of the Rails web development framework --Ruby's killer app -- or simply because it's a relatively clean, powerful and expressive language that's useful for a lot of applications, the Ruby Pocket

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Reference is organized to help you find what you need quickly. This book not only will get you up to speed on how Ruby works, it provides you with a handy reference you can use anywhere, anytime. In this book, you find essential information on: Reserved words, operators, comments, numbers, variables, ranges, and symbols Predefined variables and global constants Conditional statements, method use, classes, and modules (mixins) Lists of methods from the Object, String, Array, and Hash classes and the Kernel module sprintf and time formatting directories Interactive Ruby (irb) and

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**the Ruby debugger Ruby documentation You also
get information on the RubyGems package utility
and Rake, a build tool similar to make.. If you're
using Ruby daily and just want the facts-fast-
Ruby Pocket Reference is your book.**

**Authoritative Answers to All Your Apache
Questions--Now Updated to Cover Apache 2.0
Linux Apache Web Server Administration is the
most complete, most advanced guide to the
Apache Web server you'll find anywhere. Written
by a leading Apache expert--and now updated to
cover Apache 2.0--this book teaches you, step-by-
step, all the standard and advanced techniques**

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you need to know to administer Apache on a Linux box. Hundreds of clear, consistent examples illustrate these techniques in detail--so you stay on track and accomplish all your goals. Coverage includes: * Compiling Apache from source code * Creating and hosting virtual web sites * Using Server-Side Includes to create Web pages with dynamic content * Using Apache directives to configure your site * Extending Apache using add-on modules * Using the Common Gateway Interface for web programming * Enhancing the performance of CGI programs with FastCGI and mod_perl *

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**Installing Apache support for PHP * Extending
Apache to run Java servlets or Java Server Pages
* Attaching Apache to a database server * Using
URL rewriting for increased request-handling
flexibility * Implementing user authentication *
Adding Secure Sockets Layer for enhanced
system security * Customizing Apache's log
formats** The Craig Hunt Linux Library The Craig
Hunt Linux Library provides in-depth, advanced
coverage of the key topics for Linux
administrators. Topics include Samba, System
Administration, DNS Server Administration,
Network Servers, Security, and Sendmail. Each

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book in the series is either written by or meticulously reviewed by Craig Hunt to ensure the highest quality and most complete coverage for networking professionals working specifically in Linux environments.

Even if you know the Apache web server inside and out, you still need an occasional on-the-job reminder -- especially if you're moving to the newer Apache 2.x. Apache 2 Pocket Reference gives you exactly what you need to get the job done without forcing you to plow through a cumbersome, doorstop-sized reference. This Book provides essential information to help you

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configure and maintain the server quickly, with brief explanations that get directly to the point. It covers Apache 2.x, giving web masters, web administrators, and programmers a quick and easy reference solution. This pocket reference includes: Summaries of command-line options, configuration directives, and modules Key information about Apache support utilities What you need to know about URL rewriting, filters, caching, proxying and security Whether you manage huge e-commerce operations, corporate intranets, or small personal websites, Apache 2 Pocket Reference is ideal for savvy

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**administrators who no longer need detailed
tutorials and just want a convenient, on-the-job
reference.**

**Presents instructions on using MySQL, covering
such topics as installation, querying, user
management, security, and backups and
recovery.**

Linux Server Best Practices

Building Big Data Pipelines with Apache Beam

Essential Code and Commands

For Apache Programmers & Administrators

HTTP

Programming Jakarta Struts

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JavaServer Pages (JSP) is harmonizing how web designers and programmers create dynamic web pages. The reason for this is simple: JSP capitalizes on the power of Java servlets to create effective, reusable web applications. JSP allows you to develop robust, powerful web content, and the best part is that you're not required to be a hard-core Java programmer. JavaServer Pages Pocket Reference is the perfect companion volume to O'Reilly's best-selling JavaServer Pages, also by Hans Bergsten. This book provides detailed coverage of JSP syntax and processing, directive elements, standard action elements, scripting elements, implicit objects, custom actions, tag library

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description creation, and WARs.

Understand the complexities of modern-day data engineering platforms and explore strategies to deal with them with the help of use case scenarios led by an industry expert in big data Key Features Become well-versed with the core concepts of Apache Spark and Delta Lake for building data platforms Learn how to ingest, process, and analyze data that can be later used for training machine learning models Understand how to operationalize data models in production using curated data Book Description In the world of ever-changing data and schemas, it is important to build data pipelines that can auto-adjust to

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changes. This book will help you build scalable data platforms that managers, data scientists, and data analysts can rely on. Starting with an introduction to data engineering, along with its key concepts and architectures, this book will show you how to use Microsoft Azure Cloud services effectively for data engineering. You'll cover data lake design patterns and the different stages through which the data needs to flow in a typical data lake. Once you've explored the main features of Delta Lake to build data lakes with fast performance and governance in mind, you'll advance to implementing the lambda architecture using Delta Lake. Packed with practical examples and

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code snippets, this book takes you through real-world examples based on production scenarios faced by the author in his 10 years of experience working with big data. Finally, you'll cover data lake deployment strategies that play an important role in provisioning the cloud resources and deploying the data pipelines in a repeatable and continuous way. By the end of this data engineering book, you'll know how to effectively deal with ever-changing data and create scalable data pipelines to streamline data science, ML, and artificial intelligence (AI) tasks. What you will learn Discover the challenges you may face in the data engineering world Add ACID transactions to Apache

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Spark using Delta Lake Understand effective design strategies to build enterprise-grade data lakes Explore architectural and design patterns for building efficient data ingestion pipelines Orchestrate a data pipeline for preprocessing data using Apache Spark and Delta Lake APIs Automate deployment and monitoring of data pipelines in production Get to grips with securing, monitoring, and managing data pipelines models efficiently Who this book is for This book is for aspiring data engineers and data analysts who are new to the world of data engineering and are looking for a practical guide to building scalable data platforms. If you already work

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with PySpark and want to use Delta Lake for data engineering, you'll find this book useful. Basic knowledge of Python, Spark, and SQL is expected.

grep Pocket Reference is the first guide devoted to grep, the powerful Unix content-location utility. This handy book is ideal for system administrators, security professionals, developers, and others who want to learn more about grep and take new approaches with it -- for everything from mail filtering and system log management to malware analysis. With grep Pocket Reference, you will: Learn methods for filtering large files for specific content Acquire information not included in the current

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grep documentation Get several tricks for using variants such as egrep Keep key information about grep right at your fingertips Find the answers you need about grep quickly and easily. If you're familiar with this utility, grep Pocket Reference will help you refresh your basic knowledge, understand rare situations, and work more efficiently. If you're new to grep, this book is the best way to get started.

Implement, run, operate, and test data processing pipelines using Apache Beam

Key Features*

- Understand how to improve usability and productivity when implementing Beam pipelines*
- Learn how to use stateful

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processing to implement complex use cases using Apache Beam* Implement, test, and run Apache Beam pipelines with the help of expert tips and techniquesBook

DescriptionApache Beam is an open source unified programming model for implementing and executing data processing pipelines, including Extract, Transform, and Load (ETL), batch, and stream processing. This book will help you to confidently build data processing pipelines with Apache Beam. You'll start with an overview of Apache Beam and understand how to use it to implement basic pipelines. You'll also learn how to test and run the pipelines efficiently. As you progress, you'll explore how to

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structure your code for reusability and also use various Domain Specific Languages (DSLs). Later chapters will show you how to use schemas and query your data using (streaming) SQL. Finally, you'll understand advanced Apache Beam concepts, such as implementing your own I/O connectors. By the end of this book, you'll have gained a deep understanding of the Apache Beam model and be able to apply it to solve problems. What you will learn*

- * Understand the core concepts and architecture of Apache Beam
- * Implement stateless and stateful data processing pipelines
- * Use state and timers for processing real-time event processing
- * Structure your code for

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reusability* Use streaming SQL to process real-time data
for increasing productivity and data accessibility* Run a
pipeline using a portable runner and implement data
processing using the Apache Beam Python SDK*

Implement Apache Beam I/O connectors using the
Splittable DoFn APIWho this book is forThis book is for
data engineers, data scientists, and data analysts who want
to learn how Apache Beam works. Intermediate-level
knowledge of the Java programming language is assumed.

Hypertext Transfer Protocol

Apache

A Quick Pocket Reference for a Utility Every Unix User

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Linux Apache Web Server Administration

XSLT 1.0 Pocket Reference

JavaServer Pages Pocket Reference

Discusses how and why to configure and develop Web applications with Struts and other Jakarta technologies using the model-view controller design pattern in Java.

Data pipelines are the foundation for success in data analytics. Moving data from numerous diverse sources and transforming it to provide context is the difference between having data

and actually gaining value from it. This pocket reference defines data pipelines and explains how they work in today's modern data stack. You'll learn common considerations and key decision points when implementing pipelines, such as batch versus streaming data ingestion and build versus buy. This book addresses the most common decisions made by data professionals and discusses foundational concepts that apply to open source frameworks, commercial products, and homegrown solutions. You'll

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learn: What a data pipeline is and how it works How data is moved and processed on modern data infrastructure, including cloud platforms Common tools and products used by data engineers to build pipelines How pipelines support analytics and reporting needs Considerations for pipeline maintenance, testing, and alerting "An Airflow bible. Useful for all kinds of users, from novice to expert." - Rambabu Posa, Sai Aashika Consultancy Data Pipelines with Apache Airflow teaches you how to build

and maintain effective data pipelines. A successful pipeline moves data efficiently, minimizing pauses and blockages between tasks, keeping every process along the way operational. Apache Airflow provides a single customizable environment for building and managing data pipelines, eliminating the need for a hodgepodge collection of tools, snowflake code, and homegrown processes. Using real-world scenarios and examples, Data Pipelines with Apache Airflow teaches you how to simplify and automate data

pipelines, reduce operational overhead, and smoothly integrate all the technologies in your stack. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Data pipelines manage the flow of data from initial collection through consolidation, cleaning, analysis, visualization, and more. Apache Airflow provides a single platform you can use to design, implement, monitor, and maintain your pipelines. Its easy-to-use UI, plug-and-

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play options, and flexible Python scripting make Airflow perfect for any data management task. About the book Data Pipelines with Apache Airflow teaches you how to build and maintain effective data pipelines. You'll explore the most common usage patterns, including aggregating multiple data sources, connecting to and from data lakes, and cloud deployment. Part reference and part tutorial, this practical guide covers every aspect of the directed acyclic graphs (DAGs) that power Airflow, and

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how to customize them for your pipeline's needs. What's inside Build, test, and deploy Airflow pipelines as DAGs Automate moving and transforming data Analyze historical datasets using backfilling Develop custom components Set up Airflow in production environments About the reader For DevOps, data engineers, machine learning engineers, and sysadmins with intermediate Python skills. About the author Bas Harenslak and Julian de Rooter are data engineers with extensive experience using Airflow to develop

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**pipelines for major companies. Bas is also an
Airflow committer. Table of Contents PART 1
- GETTING STARTED 1 Meet Apache Airflow 2
Anatomy of an Airflow DAG 3 Scheduling in
Airflow 4 Templating tasks using the Airflow
context 5 Defining dependencies between
tasks PART 2 - BEYOND THE BASICS 6
Triggering workflows 7 Communicating with
external systems 8 Building custom
components 9 Testing 10 Running tasks in
containers PART 3 - AIRFLOW IN PRACTICE
11 Best practices 12 Operating Airflow in**

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production 13 Securing Airflow 14 Project:

Finding the fastest way to get around NYC

**PART 4 - IN THE CLOUDS 15 Airflow in the
clouds 16 Airflow on AWS 17 Airflow on Azure
18 Airflow in GCP**

Managing Mailing Lists

PHP Pocket Reference

The Definitive Guide