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# Apache Cookbook

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 Mod\_perl Developer's Cookbook  
 The AH-64 Apache Helicopter  
 Solr Cookbook - Third Edition

*Apache Cookbook*

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## ROCCO DRAVEN

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*Apache Kafka Cookbook* Packt Publishing Ltd  
 A solution-based guide to put your deep learning models into production with the power of Apache Spark Key Features Discover practical recipes for distributed deep learning with Apache Spark Learn to use libraries such as Keras and TensorFlow Solve problems in order to train your deep learning models on Apache Spark Book Description With deep learning gaining rapid mainstream adoption in modern-day industries, organizations are looking for ways to unite popular big data tools with highly efficient deep learning libraries. As a result, this will help deep learning models train with higher efficiency and

speed. With the help of the Apache Spark Deep Learning Cookbook, you'll work through specific recipes to generate outcomes for deep learning algorithms, without getting bogged down in theory. From setting up Apache Spark for deep learning to implementing types of neural net, this book tackles both common and not so common problems to perform deep learning on a distributed environment. In addition to this, you'll get access to deep learning code within Spark that can be reused to answer similar problems or tweaked to answer slightly different problems. You will also learn how to stream and cluster your data with Spark. Once you have got to grips with the basics, you'll explore how to implement and deploy deep learning models, such as Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN) in Spark,

using popular libraries such as TensorFlow and Keras. By the end of the book, you'll have the expertise to train and deploy efficient deep learning models on Apache Spark. What you will learn Set up a fully functional Spark environment Understand practical machine learning and deep learning concepts Apply built-in machine learning libraries within Spark Explore libraries that are compatible with TensorFlow and Keras Explore NLP models such as Word2vec and TF-IDF on Spark Organize dataframes for deep learning evaluation Apply testing and training modeling to ensure accuracy Access readily available code that may be reusable Who this book is for If you're looking for a practical and highly useful resource for implementing efficiently distributed deep learning models with Apache Spark, then the Apache Spark

Deep Learning Cookbook is for you. Knowledge of the core machine learning concepts and a basic understanding of the Apache Spark framework is required to get the best out of this book. Additionally, some programming knowledge in Python is a plus.

*I Am Apache* Packt Publishing Ltd  
Over 50 recipes on the core features of Apache Mesos and running big data frameworks in Mesos  
About This Book  
Learn to install and configure Mesos to suit the needs of your organization  
Follow step-by-step instructions to deploy application frameworks on top of Mesos, saving you many hours of research and trial and error  
Use this practical guide packed with powerful recipes to implement Mesos and easily integrate it with other application frameworks  
Who This Book Is For  
This book is for system administrators, engineers, and big data programmers. Basic experience with big data technologies such as Hadoop or Spark would be useful but is not essential. A working knowledge of Apache Mesos is expected.  
What You Will Learn  
Set up Mesos on different operating systems  
Use the Marathon and Chronos frameworks to manage multiple applications  
Work with Mesos and Docker  
Integrate Mesos with Spark and other big data frameworks  
Use networking features in Mesos for effective communication between containers  
Configure Mesos for high availability using Zookeeper  
Secure your Mesos clusters with SASL and Authorization ACLs  
Solve everyday problems and discover the best practices  
In Detail  
Apache Mesos is open source cluster sharing and management software. Deploying and managing scalable applications in large-scale clustered environments can be difficult, but Apache Mesos makes it easier with efficient resource isolation and sharing across application frameworks. The goal of this book is to guide you through the practical implementation of the Mesos core along with a number of Mesos supported frameworks. You will begin by installing Mesos and then learn how to configure clusters and maintain them. You will also see how to deploy a cluster in a production environment with high availability using Zookeeper. Next, you will get to grips with using Mesos, Marathon, and Docker to build and deploy a PaaS. You will see how to schedule jobs with Chronos. We'll demonstrate how to integrate Mesos with big data frameworks such as Spark, Hadoop, and Storm. Practical solutions backed with clear examples will also show you how to deploy elastic big data jobs. You will find out how to deploy a scalable continuous integration

and delivery system on Mesos with Jenkins. Finally, you will configure and deploy a highly scalable distributed search engine with Elasticsearch. Throughout the course of this book, you will get to know tips and tricks along with best practices to follow when working with Mesos. Style and approach  
This step-by-step guide is packed with powerful recipes on using Apache Mesos and shows its integration with containers and big data frameworks.  
[Apache Sqoop Cookbook](#) Pearson Education  
There's plenty of documentation on installing and configuring the Apache web server, but where do you find help for the day-to-day stuff, like adding common modules or fine-tuning your activity logging? That's easy. The new edition of the Apache Cookbook offers you updated solutions to the problems you're likely to encounter with the new versions of Apache.

**Apache** "O'Reilly Media, Inc."  
\*Finalist for the Pulitzer Prize and the National Book Critics Circle Award\* \*A New York Times Notable Book\* \*Winner of the Texas Book Award and the Oklahoma Book Award\* This New York Times bestseller and stunning historical account of the forty-year battle between Comanche Indians and white settlers for control of the American West "is nothing short of a revelation...will leave dust and blood on your jeans" (The New York Times Book Review). Empire of the Summer Moon spans two astonishing stories. The first traces the rise and fall of the Comanches, the most powerful Indian tribe in American history. The second entails one of the most remarkable narratives ever to come out of the Old West: the epic saga of the pioneer woman Cynthia Ann Parker and her mixed-blood son Quanah, who became the last and greatest chief of the Comanches. Although readers may be more familiar with the tribal names Apache and Sioux, it was in fact the legendary fighting ability of the Comanches that determined when the American West opened up. Comanche boys became adept bareback riders by age six; full Comanche braves were considered the best horsemen who ever rode. They were so masterful at war and so skillful with their arrows and lances that they stopped the northern drive of colonial Spain from Mexico and halted the French expansion westward from Louisiana. White settlers arriving in Texas from the eastern United States were surprised to find the frontier being rolled backward by Comanches incensed by the invasion of their tribal lands. The war with the Comanches lasted four decades, in effect

holding up the development of the new American nation. Gwynne's exhilarating account delivers a sweeping narrative that encompasses Spanish colonialism, the Civil War, the destruction of the buffalo herds, and the arrival of the railroads, and the amazing story of Cynthia Ann Parker and her son Quanah—a historical feast for anyone interested in how the United States came into being. Hailed by critics, S. C. Gwynne's account of these events is meticulously researched, intellectually provocative, and, above all, thrillingly told. Empire of the Summer Moon announces him as a major new writer of American history.

[Empire of the Summer Moon](#) Packt Publishing Ltd

Integrating data from multiple sources is essential in the age of big data, but it can be a challenging and time-consuming task. This handy cookbook provides dozens of ready-to-use recipes for using Apache Sqoop, the command-line interface application that optimizes data transfers between relational databases and Hadoop. Sqoop is both powerful and bewildering, but with this cookbook's problem-solution-discussion format, you'll quickly learn how to deploy and then apply Sqoop in your environment. The authors provide MySQL, Oracle, and PostgreSQL database examples on GitHub that you can easily adapt for SQL Server, Netezza, Teradata, or other relational systems. Transfer data from a single database table into your Hadoop ecosystem  
Keep table data and Hadoop in sync by importing data incrementally  
Import data from more than one database table  
Customize transferred data by calling various database functions  
Export generated, processed, or backed-up data from Hadoop to your database  
Run Sqoop within Oozie, Hadoop's specialized workflow scheduler  
Load data into Hadoop's data warehouse (Hive) or database (HBase)  
Handle installation, connection, and syntax issues common to specific database vendors

[Puppet 2.7 Cookbook](#) "O'Reilly Media, Inc."

If you are a Java developer or a manager who has experience with Apache Maven and want to extend your knowledge, then this is the ideal book for you. Apache Maven Cookbook is for those who want to learn how Apache Maven can be used for build automation. It is also meant for those familiar with Apache Maven, but want to understand the finer nuances of Maven and solve specific problems.

[Southwestern Indian Recipe Book](#) "O'Reilly Media, Inc."

Provides an in-depth look at the AH-64 Apache helicopter, with detailed cross-section diagrams, photographs, and

additional facts and information.

**Apache Hive Cookbook** Packt Publishing Ltd

This book is intended for developers who have some familiarity with Apache Karaf and who want a quick reference for practical, proven tips on how to perform common tasks such as configuring Pax modules deployed in Apache Karaf, Extending HttpService with Apache Karaf. You should have working knowledge of Apache karaf, as the book provides a deeper understanding of the capabilities of Apache Karaf.

**Modern Big Data Processing with Hadoop** Packt Publishing Ltd

Over 50 hands-on recipes to efficiently administer, maintain, and use your Apache Kafka installation About This Book- Quickly configure and manage your Kafka cluster- Learn how to use the Apache Kafka cluster and connect it with tools for big data processing- A practical guide to monitor your Apache Kafka installation Who This Book Is For If you are a programmer or big data engineer using or planning to use Apache Kafka, then this book is for you. This book has several recipes which will teach you how to effectively use Apache Kafka. You need to have some basic knowledge of Java. If you don't know big data tools, this would be your stepping stone for learning how to consume the data in these kind of systems. What You Will Learn- Learn how to configure Kafka brokers for better efficiency- Explore how to configure producers and consumers for optimal performance- Set up tools for maintaining and operating Apache Kafka- Create producers and consumers for Apache Kafka in Java- Understand how Apache Kafka can be used by several third party system for big data processing, such as Apache Storm, Apache Spark, Hadoop, and more- Monitor Apache Kafka using tools like graphite and Ganglia In Detail This book will give you details about how to manage and administer your Apache Kafka Cluster. We will cover topics like how to configure your broker, producer, and consumer for maximum efficiency for your situation. Also, you will learn how to maintain and administer your cluster for fault tolerance. We will also explore tools provided with Apache Kafka to do regular maintenance operations. We shall also look at how to easily integrate Apache Kafka with big data tools like Hadoop, Apache Spark, Apache Storm, and Elasticsearch. Style and approach Easy-to-follow, step-by-step recipes explaining from start to finish how to accomplish real-world tasks.

Apache Packt Publishing Ltd

A task-based reference that will provide

experienced developers with useful recipes and easy-to-follow solutions to common problems when using mod\_perl in Web applications. The first mod\_perl cookbook, containing valuable recipes that use mod\_perl to extend the Apache API. with tricks, solutions, and idioms .

**Apache Maven Cookbook** Packt Publishing Ltd

Taking readers on a sweeping and suspenseful journey through the 19th-century American Southwest, Landman tells a tale about a young woman who seeks to avenge her brother's death by becoming an Apache warrior.

**Apache Camel Developer's Cookbook** Packt Publishing Ltd

This book is intended for developers who have some familiarity with Apache Karaf and who want a quick reference for practical, proven tips on how to perform common tasks such as configuring Pax modules deployed in Apache Karaf, Extending HttpService with Apache Karaf. You should have working knowledge of Apache karaf, as the book provides a deeper understanding of the capabilities of Apache Karaf.

**Apache Sqoop Cookbook** Packt Publishing Ltd

Over 31 recipes. Includes techniques for preparing beans and vegetables and for roasting and drying a variety of chiles.

**Java 11 Cookbook** Packt Publishing Ltd

Simplify machine learning model implementations with Spark About This Book Solve the day-to-day problems of data science with Spark This unique cookbook consists of exciting and intuitive numerical recipes Optimize your work by acquiring, cleaning, analyzing, predicting, and visualizing your data Who This Book Is For This book is for Scala developers with a fairly good exposure to and understanding of machine learning techniques, but lack practical implementations with Spark. A solid knowledge of machine learning algorithms is assumed, as well as hands-on experience of implementing ML algorithms with Scala. However, you do not need to be acquainted with the Spark ML libraries and ecosystem. What You Will Learn Get to know how Scala and Spark go hand-in-hand for developers when developing ML systems with Spark Build a recommendation engine that scales with Spark Find out how to build unsupervised clustering systems to classify data in Spark Build machine learning systems with the Decision Tree and Ensemble models in Spark Deal with the curse of high-dimensionality in big data using Spark Implement Text analytics for Search Engines in Spark Streaming Machine

Learning System implementation using Spark In Detail Machine learning aims to extract knowledge from data, relying on fundamental concepts in computer science, statistics, probability, and optimization. Learning about algorithms enables a wide range of applications, from everyday tasks such as product recommendations and spam filtering to cutting edge applications such as self-driving cars and personalized medicine. You will gain hands-on experience of applying these principles using Apache Spark, a resilient cluster computing system well suited for large-scale machine learning tasks. This book begins with a quick overview of setting up the necessary IDEs to facilitate the execution of code examples that will be covered in various chapters. It also highlights some key issues developers face while working with machine learning algorithms on the Spark platform. We progress by uncovering the various Spark APIs and the implementation of ML algorithms with developing classification systems, recommendation engines, text analytics, clustering, and learning systems. Toward the final chapters, we'll focus on building high-end applications and explain various unsupervised methodologies and challenges to tackle when implementing with big data ML systems. Style and approach This book is packed with intuitive recipes supported with line-by-line explanations to help you understand how to optimize your work flow and resolve problems when working with complex data modeling tasks and predictive algorithms. This is a valuable resource for data scientists and those working on large scale data projects.

**Apache Spark Deep Learning Cookbook** Capstone

A comprehensive guide to design, build and execute effective Big Data strategies using Hadoop Key Features -Get an in-depth view of the Apache Hadoop ecosystem and an overview of the architectural patterns pertaining to the popular Big Data platform -Conquer different data processing and analytics challenges using a multitude of tools such as Apache Spark, Elasticsearch, Tableau and more -A comprehensive, step-by-step guide that will teach you everything you need to know, to be an expert Hadoop Architect Book Description The complex structure of data these days requires sophisticated solutions for data transformation, to make the information more accessible to the users. This book empowers you to build such solutions with relative ease with the help of Apache Hadoop, along with a host of other Big

Data tools. This book will give you a complete understanding of the data lifecycle management with Hadoop, followed by modeling of structured and unstructured data in Hadoop. It will also show you how to design real-time streaming pipelines by leveraging tools such as Apache Spark, and build efficient enterprise search solutions using Elasticsearch. You will learn to build enterprise-grade analytics solutions on Hadoop, and how to visualize your data using tools such as Apache Superset. This book also covers techniques for deploying your Big Data solutions on the cloud Apache Ambari, as well as expert techniques for managing and administering your Hadoop cluster. By the end of this book, you will have all the knowledge you need to build expert Big Data systems. What you will learn Build an efficient enterprise Big Data strategy centered around Apache Hadoop Gain a thorough understanding of using Hadoop with various Big Data frameworks such as Apache Spark, Elasticsearch and more Set up and deploy your Big Data environment on premises or on the cloud with Apache Ambari Design effective streaming data pipelines and build your own enterprise search solutions Utilize the historical data to build your analytics solutions and visualize them using popular tools such as Apache Superset Plan, set up and administer your Hadoop cluster efficiently Who this book is for This book is for Big Data professionals who want to fast-track their career in the Hadoop industry and become an expert Big Data architect. Project managers and mainframe professionals looking forward to build a career in Big Data Hadoop will also find this book to be useful. Some understanding of Hadoop is required to get the best out of this book.

*Apache Mesos Cookbook* Packt Publishing Ltd

Over 70 recipes to help you use Apache Spark as your single big data computing platform and master its libraries About This Book This book contains recipes on how to use Apache Spark as a unified compute engine Cover how to connect various source systems to Apache Spark Covers various parts of machine learning including supervised/unsupervised learning & recommendation engines Who This Book Is For This book is for data engineers, data scientists, and those who want to implement Spark for real-time data processing. Anyone who is using Spark (or is planning to) will benefit from this book. The book assumes you have a basic knowledge of Scala as a programming language. What You Will

Learn Install and configure Apache Spark with various cluster managers & on AWS Set up a development environment for Apache Spark including Databricks Cloud notebook Find out how to operate on data in Spark with schemas Get to grips with real-time streaming analytics using Spark Streaming & Structured Streaming Master supervised learning and unsupervised learning using MLlib Build a recommendation engine using MLlib Graph processing using GraphX and GraphFrames libraries Develop a set of common applications or project types, and solutions that solve complex big data problems In Detail While Apache Spark 1.x gained a lot of traction and adoption in the early years, Spark 2.x delivers notable improvements in the areas of API, schema awareness, Performance, Structured Streaming, and simplifying building blocks to build better, faster, smarter, and more accessible big data applications. This book uncovers all these features in the form of structured recipes to analyze and mature large and complex sets of data. Starting with installing and configuring Apache Spark with various cluster managers, you will learn to set up development environments. Further on, you will be introduced to working with RDDs, DataFrames and Datasets to operate on schema aware data, and real-time streaming with various sources such as Twitter Stream and Apache Kafka. You will also work through recipes on machine learning, including supervised learning, unsupervised learning & recommendation engines in Spark. Last but not least, the final few chapters delve deeper into the concepts of graph processing using GraphX, securing your implementations, cluster optimization, and troubleshooting. Style and approach This book is packed with intuitive recipes supported with line-by-line explanations to help you understand Spark 2.x's real-time processing capabilities and deploy scalable big data solutions. This is a valuable resource for data scientists and those working on large-scale data projects. *Apache Cookbook* Packt Pub Limited This book is written in a Cookbook style with short recipes showing developers how to effectively implement EIP without breaking everything in the process. It is concise and to the point, and it helps developers get their data flowing between different components without the need to read through page upon page of theory, while also enabling the reader to learn how to create exciting new projects. *Camel Enterprise Integration Cookbook* is intended for developers who have some familiarity with Apache Camel and who

want a quick lookup reference to practical, proven tips on how to perform common tasks. Every recipe also includes a summary and reference pointers for more details that make it easy for you to get a deeper understanding of the Apache Camel capabilities that you will use day to day.

*Apache Karaf Cookbook* Packt Publishing Ltd

Easy, hands-on recipes to help you understand Hive and its integration with frameworks that are used widely in today's big data world About This Book Grasp a complete reference of different Hive topics. Get to know the latest recipes in development in Hive including CRUD operations Understand Hive internals and integration of Hive with different frameworks used in today's world. Who This Book Is For The book is intended for those who want to start in Hive or who have basic understanding of Hive framework. Prior knowledge of basic SQL command is also required What You Will Learn Learn different features and offering on the latest Hive Understand the working and structure of the Hive internals Get an insight on the latest development in Hive framework Grasp the concepts of Hive Data Model Master the key concepts like Partition, Buckets and Statistics Know how to integrate Hive with other frameworks such as Spark, Accumulo, etc In Detail Hive was developed by Facebook and later open sourced in Apache community. Hive provides SQL like interface to run queries on Big Data frameworks. Hive provides SQL like syntax also called as HiveQL that includes all SQL capabilities like analytical functions which are the need of the hour in today's Big Data world. This book provides you easy installation steps with different types of metastores supported by Hive. This book has simple and easy to learn recipes for configuring Hive clients and services. You would also learn different Hive optimizations including Partitions and Bucketing. The book also covers the source code explanation of latest Hive version. Hive Query Language is being used by other frameworks including spark. Towards the end you will cover integration of Hive with these frameworks. Style and approach Starting with the basics and covering the core concepts with the practical usage, this book is a complete guide to learn and explore Hive offerings. *Kafka: The Definitive Guide* "O'Reilly Media, Inc."

"A truly amazing portrayal of the technical, the emotional, and the courageous. Macy puts the reader in the cockpit of our most lethal attack platform." —Dick Couch, New York Times–bestselling

author Apache is the incredible true story of Ed Macy, a decorated Apache helicopter pilot, that takes you inside one of the world's most dangerous war machines. A firsthand account of the exhilaration and ferocity of war, Apache chronicles a rescue mission involving a stranded soldier in Afghanistan in 2007. Ed Macy had always dreamed of a career in the army, so when the British Army Air Corps launched its attack helicopter program, Macy bent every rule in the book to make sure he was the first to sign up to fly the Apache—the deadliest, most technically advanced helicopter in the world and the toughest to fly. In 2007, Macy's Apache squadron was dispatched to Afghanistan's notorious Helmand Province with the mission to fight alongside and protect the men on the ground by any means necessary. When a marine goes missing in action, Macy and his team know they are the Army's only hope of bringing him back alive. Apache is Macy's story—an adrenalin-fueled account of one of the most daring actions of modern wartime, and a tale of courage, danger, and comradeship you won't be able to put down. "A fantastic, totally exhilarating roller-coaster read." —Sgt. Maj. Dan Mills, author of Sniper One

[Apache Cookbook](#) "O'Reilly Media, Inc." Simplify real-time data processing by leveraging the power of Apache Kafka 1.0

About This Book Use Kafka 1.0 features such as Confluent platforms and Kafka streams to build efficient streaming data applications to handle and process your data Integrate Kafka with other Big Data tools such as Apache Hadoop, Apache Spark, and more Hands-on recipes to help you design, operate, maintain, and secure your Apache Kafka cluster with ease Who This Book Is For This book is for developers and Kafka administrators who are looking for quick, practical solutions to problems encountered while operating, managing or monitoring Apache Kafka. If you are a developer, some knowledge of Scala or Java will help, while for administrators, some working knowledge of Kafka will be useful. What You Will Learn Install and configure Apache Kafka 1.0 to get optimal performance Create and configure Kafka Producers and Consumers Operate your Kafka clusters efficiently by implementing the mirroring technique Work with the new Confluent platform and Kafka streams, and achieve high availability with Kafka Monitor Kafka using tools such as Graphite and Ganglia Integrate Kafka with third-party tools such as Elasticsearch, Logstash, Apache Hadoop, Apache Spark, and more In Detail Apache Kafka provides a unified, high-throughput, low-latency platform to handle real-time data feeds. This book will show you how to use Kafka efficiently, and contains practical solutions

to the common problems that developers and administrators usually face while working with it. This practical guide contains easy-to-follow recipes to help you set up, configure, and use Apache Kafka in the best possible manner. You will use Apache Kafka Consumers and Producers to build effective real-time streaming applications. The book covers the recently released Kafka version 1.0, the Confluent Platform and Kafka Streams. The programming aspect covered in the book will teach you how to perform important tasks such as message validation, enrichment and composition. Recipes focusing on optimizing the performance of your Kafka cluster, and integrate Kafka with a variety of third-party tools such as Apache Hadoop, Apache Spark, and Elasticsearch will help ease your day to day collaboration with Kafka greatly. Finally, we cover tasks related to monitoring and securing your Apache Kafka cluster using tools such as Ganglia and Graphite. If you're looking to become the go-to person in your organization when it comes to working with Apache Kafka, this book is the only resource you need to have. Style and approach Following a cookbook recipe-based approach, we'll teach you how to solve everyday difficulties and struggles you encounter using Kafka through hands-on examples.

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