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KEY=APACHE - AYDIN GILLIAN

MASTERING APACHE MAVEN 3

Packt Publishing Ltd **If you are working with Java or Java EE projects and you want to take full advantage of Maven in designing, executing, and maintaining your build system for optimal developer productivity, then this book is ideal for you. You should be well versed with Maven and its basic functionality if you wish to get the most out of the book.**

MASTERING HADOOP 3

BIG DATA PROCESSING AT SCALE TO UNLOCK UNIQUE BUSINESS INSIGHTS

Packt Publishing Ltd **A comprehensive guide to mastering the most advanced Hadoop 3 concepts Key FeaturesGet to grips with the newly introduced features and capabilities of Hadoop 3Crunch and process data using MapReduce, YARN, and a host of tools within the Hadoop ecosystemSharpen your Hadoop skills with real-world case studies and codeBook Description Apache Hadoop is one of the most popular big data solutions for distributed storage and for processing large chunks of data. With Hadoop 3, Apache promises to provide a high-performance, more fault-tolerant, and highly efficient big data processing platform, with a focus on improved scalability and increased efficiency. With this guide, you'll understand advanced concepts of the Hadoop ecosystem tool. You'll learn how Hadoop works internally, study advanced concepts of different ecosystem tools, discover solutions to real-world use cases, and understand how to secure your cluster. It will then walk you through HDFS,**

YARN, MapReduce, and Hadoop 3 concepts. You'll be able to address common challenges like using Kafka efficiently, designing low latency, reliable message delivery Kafka systems, and handling high data volumes. As you advance, you'll discover how to address major challenges when building an enterprise-grade messaging system, and how to use different stream processing systems along with Kafka to fulfil your enterprise goals. By the end of this book, you'll have a complete understanding of how components in the Hadoop ecosystem are effectively integrated to implement a fast and reliable data pipeline, and you'll be equipped to tackle a range of real-world problems in data pipelines. What you will learn

- Gain an in-depth understanding of distributed computing using Hadoop 3**
- Develop enterprise-grade applications using Apache Spark, Flink, and more**
- Build scalable and high-performance Hadoop data pipelines with security, monitoring, and data governance**
- Explore batch data processing patterns and how to model data in Hadoop**
- Master best practices for enterprises using, or planning to use, Hadoop 3 as a data platform**
- Understand security aspects of Hadoop, including authorization and authentication**

Who this book is for If you want to become a big data professional by mastering the advanced concepts of Hadoop, this book is for you. You'll also find this book useful if you're a Hadoop professional looking to strengthen your knowledge of the Hadoop ecosystem.

Fundamental knowledge of the Java programming language and basics of Hadoop is necessary to get started with this book.

MASTERING APACHE STORM

Packt Publishing Ltd Master the intricacies of Apache Storm and develop real-time stream processing applications with ease

About This Book Exploit the various real-time processing functionalities offered by Apache Storm such as parallelism, data partitioning, and more

Integrate Storm with other Big Data technologies like Hadoop, HBase, and Apache Kafka An easy-to-understand guide to effortlessly create distributed applications with Storm

Who This Book Is For If you are a Java developer who wants to enter into the world of real-time stream processing applications using Apache Storm, then this book is for you. No previous experience in Storm is required as this book starts from the basics. After finishing this book, you will be able to develop not-so-complex Storm applications. **What You Will Learn**

- Understand the core concepts of Apache Storm and real-time processing**
- Follow the steps to deploy multiple nodes of Storm Cluster**
- Create Trident topologies to support various message-processing semantics**
- Make your cluster sharing effective using Storm scheduling**
- Integrate Apache Storm with other Big Data technologies such as Hadoop, HBase, Kafka, and more**
- Monitor the health of your Storm cluster**

In Detail Apache Storm is a real-time Big Data processing framework that processes large amounts of data reliably, guaranteeing that every message will be processed. Storm allows you to scale your data as it grows, making it an excellent platform to solve

your big data problems. This extensive guide will help you understand right from the basics to the advanced topics of Storm. The book begins with a detailed introduction to real-time processing and where Storm fits in to solve these problems. You'll get an understanding of deploying Storm on clusters by writing a basic Storm Hello World example. Next we'll introduce you to Trident and you'll get a clear understanding of how you can develop and deploy a trident topology. We cover topics such as monitoring, Storm Parallelism, scheduler and log processing, in a very easy to understand manner. You will also learn how to integrate Storm with other well-known Big Data technologies such as HBase, Redis, Kafka, and Hadoop to realize the full potential of Storm. With real-world examples and clear explanations, this book will ensure you will have a thorough mastery of Apache Storm. You will be able to use this knowledge to develop efficient, distributed real-time applications to cater to your business needs. Style and approach This easy-to-follow guide is full of examples and real-world applications to help you get an in-depth understanding of Apache Storm. This book covers the basics thoroughly and also delves into the intermediate and slightly advanced concepts of application development with Apache Storm.

MASTERING SPRING APPLICATION DEVELOPMENT

Packt Publishing Ltd **If you are a Java developer with experience in developing applications with Spring, then this book is perfect for you. A good working knowledge of Spring programming conventions and applying dependency injections is recommended to make the most of this book.**

MASTERING UNIT TESTING USING MOCKITO AND JUNIT

Packt Publishing Ltd **A practical and easy-to-follow, yet comprehensive, guide to learning advanced JUnit testing. Each topic is explained and placed in context, and for the more inquisitive, there are more details of the concepts used. This book is for you if you are a developer with some experience in Java application development as well as a basic knowledge of JUnit testing. But for those whose skill set is void of any prior experience with JUnit testing, the book also covers basic fundamentals to get you acquainted with the concepts before putting them into practise.**

MASTERING CLOJURE DATA ANALYSIS

Packt Publishing Ltd **This book consists of a practical, example-oriented approach that aims to help you learn how to use Clojure for data analysis quickly and efficiently. This book is great for those who have experience with Clojure and need to use it to perform data analysis. This book will also be hugely beneficial for readers with basic experience in data analysis and statistics.**

MASTERING JAVA EE DEVELOPMENT WITH WILDFLY

Packt Publishing Ltd Your one stop solution to create highly scalable enterprise grade Java applications with WildFly. About This Book Master Java EE development with the latest WildFly 10 application server. Integrate with JSF and JMS and use efficient load balancing techniques to create real-time apps Integrate your backend JavaScript code seamlessly into Java applications Who This Book Is For If you are a Java developer with at least basic knowledge of Java EE, then this book is for you. No previous knowledge of WildFly is required. What You Will Learn Configure the development environment along with native and cloud installation of WildFly Write a DB schema and the relative entities and how to use the relationships between the entities Analyze with examples all the java annotations to manage the EJB and the configuration to get better performances Write different REST services through the EJB Implement Web sockets 1.0 and know why and when use the web sockets Work with Active MQ and write JMS clients to manage the authentication and authorization in the clients Configure the mail server through the wildfly console Learn how and when to use a new feature JAX-RS 2.0, which is the asynchronous call through REST Use the new JSF features of Wildfly 10 such as Mojarra 2.2, JSF 2.2, Richfaces 4.5 In Detail Packed with rich assets and APIs, Wildfly 10 allows you to create state-of-the-art Java applications. This book will help you take your understanding of Java EE to the next level by creating distributed Java applications using Wildfly. The book begins by showing how to get started with a native installation of WildFly and it ends with a cloud installation. After setting up the development environment, you will implement and work with different WildFly features, such as implementing JavaServer Pages. You will also learn how you can use clustering so that your apps can handle a high volume of data traffic. You will also work with enterprise JavaBeans, solve issues related to failover, and implement Java Message Service integration. Moving ahead, you will be working with Java Naming and Directory Interface, Java Transaction API, and use ActiveMQ for message relay and message querying. This book will also show you how you can use your existing backend JavaScript code in your application. By the end of the book, you'll have gained the knowledge to implement the latest Wildfly features in your Java applications. Style and approach Each part of this book shows you how to use different features of WildFly 10 to create enterprise grade Java applications as easily as possible.

MASTERING BIG DATA USING SPRING CLOUD AND HADOOP CLUSTERS

Dhiraj Baraik What is Big Data? Big Data is a collection of large datasets that cannot be processed using traditional computing techniques. It is not a single technique or a tool, rather it involves many areas of business and technology. What Comes Under Big Data? Big data involves the data produced by different devices and applications. Given below are some of

the fields that come under the umbrella of Big Data. · **Black Box Data:** It is a component of helicopter, airplanes, and jets, etc. It captures voices of the flight crew, recordings of microphones and earphones, and the performance information of the aircraft. · **Social Media Data:** Social media such as Facebook and Twitter hold information and the views posted by millions of people across the globe. · **Stock Exchange Data:** The stock exchange data holds information about the 'buy' and 'sell' decisions made on a share of different companies made by the customers. · **Power Grid Data:** The power grid data holds information consumed by a particular node with respect to a base station. · **Transport Data:** Transport data includes model, capacity, distance and availability of a vehicle. · **Search Engine Data:** Search engines retrieve lots of data from different databases.

MASTERING MICROSERVICES WITH JAVA 9

BUILD DOMAIN-DRIVEN MICROSERVICE-BASED APPLICATIONS WITH SPRING, SPRING CLOUD, AND ANGULAR

Packt Publishing Ltd **Master the art of implementing scalable microservices in your production environment with ease** About This Book Use domain-driven design to build microservices Use Spring Cloud to use Service Discovery and Registration Use Kafka, Avro and Spring Streams for implementing event based microservices Who This Book Is For This book is for Java developers who are familiar with the microservices architecture and now wants to take a deeper dive into effectively implementing microservices at an enterprise level. A reasonable knowledge level and understanding of core microservice elements and applications is expected. What You Will Learn Use domain-driven design to design and implement microservices Secure microservices using Spring Security Learn to develop REST service development Deploy and test microservices Troubleshoot and debug the issues faced during development Learning best practices and common principals about microservices In Detail Microservices are the next big thing in designing scalable, easy-to-maintain applications. It not only makes app development easier, but also offers great flexibility to utilize various resources optimally. If you want to build an enterprise-ready implementation of the microservices architecture, then this is the book for you! Starting off by understanding the core concepts and framework, you will then focus on the high-level design of large software projects. You will gradually move on to setting up the development environment and configuring it before implementing continuous integration to deploy your microservice architecture. Using Spring security, you will secure microservices and test them effectively using REST Java clients and other tools like RxJava 2.0. We'll show you the best patterns, practices and common principals of microservice design and you'll learn to troubleshoot and debug the issues faced during development. We'll show you how to design and implement reactive microservices. Finally, we'll show you how to migrate a monolithic application to microservices based application. By

the end of the book, you will know how to build smaller, lighter, and faster services that can be implemented easily in a production environment. **Style and approach** This book starts from the basics, including environment setup and provides easy-to-follow steps to implement the sample project using microservices.

MICROSERVICES SECURITY IN ACTION

Manning Publications **Microservices Security in Action** teaches you how to address microservices-specific security challenges throughout the system. This practical guide includes plentiful hands-on exercises using industry-leading open-source tools and examples using Java and Spring Boot. **Summary** Unlike traditional enterprise applications, Microservices applications are collections of independent components that function as a system. Securing the messages, queues, and API endpoints requires new approaches to security both in the infrastructure and the code. **Microservices Security in Action** teaches you how to address microservices-specific security challenges throughout the system. This practical guide includes plentiful hands-on exercises using industry-leading open-source tools and examples using Java and Spring Boot. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. **About the technology** Integrating independent services into a single system presents special security challenges in a microservices deployment. With proper planning, however, you can build in security from the start. Learn to create secure services and protect application data throughout development and deployment. As microservices continue to change enterprise application systems, developers and architects must learn to integrate security into their design and implementation. Because microservices are created as a system of independent components, each a possible point of failure, they can multiply the security risk. With proper planning, design, and implementation, you can reap the benefits of microservices while keeping your application data—and your company’s reputation—safe! **About the book** **Microservices Security in Action** is filled with solutions, teaching best practices for throttling and monitoring, access control, and microservice-to-microservice communications. Detailed code samples, exercises, and real-world use cases help you put what you’ve learned into production. Along the way, authors and software security experts Prabath Siriwardena and Nuwan Dias shine a light on important concepts like throttling, analytics gathering, access control at the API gateway, and microservice-to-microservice communication. You’ll also discover how to securely deploy microservices using state-of-the-art technologies including Kubernetes, Docker, and the Istio service mesh. Lots of hands-on exercises secure your learning as you go, and this straightforward guide wraps up with a security process review and best practices. When you’re finished reading, you’ll be planning, designing, and implementing microservices applications with the priceless confidence that

comes with knowing they're secure! What's inside Microservice security concepts Edge services with an API gateway Deployments with Docker, Kubernetes, and Istio Security testing at the code level Communications with HTTP, gRPC, and Kafka About the reader For experienced microservices developers with intermediate Java skills. About the author Prabath Siriwardena is the vice president of security architecture at WSO2. Nuwan Dias is the director of API architecture at WSO2. They have designed secure systems for many Fortune 500 companies. Table of Contents PART 1 OVERVIEW 1 Microservices security landscape 2 First steps in securing microservices PART 2 EDGE SECURITY 3 Securing north/south traffic with an API gateway 4 Accessing a secured microservice via a single-page application 5 Engaging throttling, monitoring, and access control PART 3 SERVICE-TO-SERVICE COMMUNICATIONS 6 Securing east/west traffic with certificates 7 Securing east/west traffic with JWT 8 Securing east/west traffic over gRPC 9 Securing reactive microservices PART 4 SECURE DEPLOYMENT 10 Conquering container security with Docker 11 Securing microservices on Kubernetes 12 Securing microservices with Istio service mesh PART 5 SECURE DEVELOPMENT 13 Secure coding practices and automation

MASTERING MICROSERVICES WITH JAVA

BUILD ENTERPRISE MICROSERVICES WITH SPRING BOOT 2.0, SPRING CLOUD, AND ANGULAR, 3RD EDITION

[Packt Publishing Ltd](#) Master the art of implementing scalable and reactive microservices in your production environment with Java 11 Key Features Use domain-driven designs to build microservices Explore various microservices design patterns such as service discovery, registration, and API Gateway Use Kafka, Avro, and Spring Streams to implement event-based microservices Book Description Microservices are key to designing scalable, easy-to-maintain applications. This latest edition of Mastering Microservices with Java, works on Java 11. It covers a wide range of exciting new developments in the world of microservices, including microservices patterns, interprocess communication with gRPC, and service orchestration. This book will help you understand how to implement microservice-based systems from scratch. You'll start off by understanding the core concepts and framework, before focusing on the high-level design of large software projects. You'll then use Spring Security to secure microservices and test them effectively using REST Java clients and other tools. You will also gain experience of using the Netflix OSS suite, comprising the API Gateway, service discovery and registration, and Circuit Breaker. Additionally, you'll be introduced to the best patterns, practices, and common principles of microservice design that will help you to understand how to troubleshoot and debug the issues faced during development. By the end of this book, you'll have learned how to build smaller, lighter, and faster services that can be implemented easily in a

production environment. What you will learn

- Use domain-driven designs to develop and implement microservices
- Understand how to implement microservices using Spring Boot
- Explore service orchestration and distributed transactions using the Sagas
- Discover interprocess communication using REpresentational State Transfer (REST) and events
- Gain knowledge of how to implement and design reactive microservices
- Deploy and test various microservices

Who this book is for
This book is designed for Java developers who are familiar with microservices architecture and now want to effectively implement microservices at an enterprise level. Basic knowledge and understanding of core microservice elements and applications is necessary.

MASTERING APACHE SPARK 2.X

Packt Publishing Ltd **Advanced analytics on your Big Data with latest Apache Spark 2.x**

About This Book An advanced guide with a combination of instructions and practical examples to extend the most up-to date Spark functionalities. Extend your data processing capabilities to process huge chunk of data in minimum time using advanced concepts in Spark. Master the art of real-time processing with the help of Apache Spark 2.x

Who This Book Is For If you are a developer with some experience with Spark and want to strengthen your knowledge of how to get around in the world of Spark, then this book is ideal for you. Basic knowledge of Linux, Hadoop and Spark is assumed. Reasonable knowledge of Scala is expected.

What You Will Learn

- Examine Advanced Machine Learning and DeepLearning with MLlib, SparkML, SystemML, H2O and DeepLearning4J
- Study highly optimised unified batch and real-time data processing using SparkSQL and Structured Streaming
- Evaluate large-scale Graph Processing and Analysis using GraphX and GraphFrames
- Apply Apache Spark in Elastic deployments using Jupyter and Zeppelin Notebooks, Docker, Kubernetes and the IBM Cloud
- Understand internal details of cost based optimizers used in Catalyst, SystemML and GraphFrames
- Learn how specific parameter settings affect overall performance of an Apache Spark cluster
- Leverage Scala, R and python for your data science projects

In Detail Apache Spark is an in-memory cluster-based parallel processing system that provides a wide range of functionalities such as graph processing, machine learning, stream processing, and SQL. This book aims to take your knowledge of Spark to the next level by teaching you how to expand Spark's functionality and implement your data flows and machine/deep learning programs on top of the platform. The book commences with an overview of the Spark ecosystem. It will introduce you to Project Tungsten and Catalyst, two of the major advancements of Apache Spark 2.x. You will understand how memory management and binary processing, cache-aware computation, and code generation are used to speed things up dramatically. The book extends to show how to incorporate H2O, SystemML, and DeepLearning4j for machine learning, and Jupyter

Notebooks and Kubernetes/Docker for cloud-based Spark. During the course of the book, you will learn about the latest enhancements to Apache Spark 2.x, such as interactive querying of live data and unifying DataFrames and Datasets. You will also learn about the updates on the APIs and how DataFrames and Datasets affect SQL, machine learning, graph processing, and streaming. You will learn to use Spark as a big data operating system, understand how to implement advanced analytics on the new APIs, and explore how easy it is to use Spark in day-to-day tasks. Style and approach This book is an extensive guide to Apache Spark modules and tools and shows how Spark's functionality can be extended for real-time processing and storage with worked examples.

MASTERING ECLIPSE PLUG-IN DEVELOPMENT

Packt Publishing Ltd If you are a Java developer who is familiar with the Eclipse plug-in environment, this book covers the advanced concepts that you need to know to achieve true expertise. Prior experience in creating Eclipse plug-ins is assumed for this book.

MASTERING ELASTICSEARCH - SECOND EDITION

Packt Publishing Ltd This book is for Elasticsearch users who want to extend their knowledge and develop new skills. Prior knowledge of the Query DSL and data indexing is expected.

MASTERING SPRING 5.0

Packt Publishing Ltd Develop cloud native applications with microservices using Spring Boot, Spring Cloud, and Spring Cloud Data Flow About This Book Explore the new features and components in Spring Evolve towards micro services and cloud native applications Gain powerful insights into advanced concepts of Spring and Spring Boot to develop applications more effectively Understand the basics of Kotlin and use it to develop a quick service with Spring Boot Who This Book Is For This book is for an experienced Java developer who knows the basics of Spring, and wants to learn how to use Spring Boot to build applications and deploy them to the cloud. What You Will Learn Explore the new features in Spring Framework 5.0 Build microservices with Spring Boot Get to know the advanced features of Spring Boot in order to effectively develop and monitor applications Use Spring Cloud to deploy and manage applications on the Cloud Understand Spring Data and Spring Cloud Data Flow Understand the basics of reactive programming Get to know the best practices when developing applications with the Spring Framework Create a new project using Kotlin and implement a couple of basic services with unit and integration testing In Detail Spring 5.0 is due to arrive with a myriad of new and exciting features that will change the way we've used the framework so far. This book will show you this evolution—from solving the problems of testable applications to building distributed applications on

the cloud. The book begins with an insight into the new features in Spring 5.0 and shows you how to build an application using Spring MVC. You will realize how application architectures have evolved from monoliths to those built around microservices. You will then get a thorough understanding of how to build and extend microservices using Spring Boot. You will also understand how to build and deploy Cloud-Native microservices with Spring Cloud. The advanced features of Spring Boot will be illustrated through powerful examples. We will be introduced to a JVM language that's quickly gaining popularity - Kotlin. Also, we will discuss how to set up a Kotlin project in Eclipse. By the end of the book, you will be equipped with the knowledge and best practices required to develop microservices with the Spring Framework. **Style and approach** This book follows an end-to-end tutorial approach with lots of examples and sample applications, covering the major building blocks of the Spring framework.

MASTERING TOMCAT DEVELOPMENT

[John Wiley & Sons](#) **Learn how to use Tomcat to quickly build more sophisticated Web applications** This comprehensive introduction to developing complex Web applications using Tomcat and related Apache Jakarta technologies examines everything you need to know about Tomcat 4—the popular, award-winning server for implementing and deploying servlets and JavaServer Pages. Tomcat helps developers create dynamic Web content without the problems associated with other methods, like CGI scripts. Author Peter Harrison has written the first book to cover Tomcat from a developer's perspective. He shows you how to use Tomcat by itself as well as with related Apache Jakarta technologies to develop dynamic Web applications, and you'll also learn techniques for improving your programming productivity. This practical, guide is packed with source code and examples of real-world Web applications. Plus, you'll discover other exciting features of Tomcat, including: A code-intensive guide to building Web applications that run on Tomcat Details on using other Apache Jakarta technologies-including Struts, Taglibs, Velocity, and CVS-with Tomcat to form a comprehensive Java Web development process Complete guidelines for installing, configuring, and administering Tomcat, including coverage of the new Manager application and Web application deployment process The companion Web site contains: All source code from the book Working demonstrations Links to additional resources

MASTERING JSP

[John Wiley & Sons](#) **Server-Side Development Is Easier Than You Think** Not so long ago, anyone who knew HTML, even casually, was considered to have a special skill. Now, if you don't at least dabble in server-side web development, you're already behind. Fortunately, Mastering JSP is a great way to build the skills you need today. Inside, you'll learn to design and develop a wide range of JSP-based web applications, beginning with a

basic, dynamically generated website. From there you'll build apps that read from and write to databases, create your own custom tags, and process and present XML. Throughout, you're helped by detailed, completely illuminated examples. Coverage includes: Making a servlet configurable Using JavaBeans inside Java Server Pages Building basic JavaBeans for storing user preferences and utility functions Recovering source code from binary class files Building a basic database application Handling exceptions and using asserts Redirecting error output to a file Scanning error logs using a servlet Using a pop-up menu to avoid troublesome actions Displaying XML files using XSLT and JSP Making a servlet-based watermarking application Providing dynamic authentication with roles, permissions, and access Building a Model-View Controller application Improving prototyping with ResultSets using a custom class Abstracting data access code using Java Objects Creating a custom tag to handle client-side JavaScript Abstracting data access SQL using meta-data, JavaBeans, and EJB Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

MASTERING ELASTICSEARCH 5.X

Packt Publishing Ltd Master the intricacies of Elasticsearch 5 and use it to create flexible and scalable search solutions About This Book Master the searching, indexing, and aggregation features in Elasticsearch Improve users' search experience with Elasticsearch's functionalities and develop your own Elasticsearch plugins A comprehensive, step-by-step guide to master the intricacies of Elasticsearch with ease Who This Book Is For If you have some prior working experience with Elasticsearch and want to take your knowledge to the next level, this book will be the perfect resource for you. If you are a developer who wants to implement scalable search solutions with Elasticsearch, this book will also help you. Some basic knowledge of the query DSL and data indexing is required to make the best use of this book. What You Will Learn Understand Apache Lucene and Elasticsearch 5's design and architecture Use and configure the new and improved default text scoring mechanism in Apache Lucene 6 Know how to overcome the pitfalls while handling relational data in Elasticsearch Learn about choosing the right queries according to the use cases and master the scripting module including new default scripting language, painlessly Explore the right way of scaling production clusters to improve the performance of Elasticsearch Master the searching, indexing, and aggregation features in Elasticsearch Develop your own Elasticsearch plugins to extend the functionalities of Elasticsearch In Detail Elasticsearch is a modern, fast, distributed, scalable, fault tolerant, and open source search and analytics engine. Elasticsearch leverages the capabilities of Apache Lucene, and provides a new level of control over how you can index and search even huge sets of data. This book will give you a brief recap of the basics and also introduce you to the new features of Elasticsearch 5.

We will guide you through the intermediate and advanced functionalities of Elasticsearch, such as querying, indexing, searching, and modifying data. We'll also explore advanced concepts, including aggregation, index control, sharding, replication, and clustering. We'll show you the modules of monitoring and administration available in Elasticsearch, and will also cover backup and recovery. You will get an understanding of how you can scale your Elasticsearch cluster to contextualize it and improve its performance. We'll also show you how you can create your own analysis plugin in Elasticsearch. By the end of the book, you will have all the knowledge necessary to master Elasticsearch and put it to efficient use. **Style and approach** This comprehensive guide covers intermediate and advanced concepts in Elasticsearch as well as their implementation. An easy-to-follow approach means you'll be able to master even advanced querying, searching, and administration tasks with ease.

MASTERING MACHINE LEARNING WITH SPARK 2.X

Packt Publishing Ltd **Unlock the complexities of machine learning algorithms in Spark to generate useful data insights through this data analysis tutorial** **About This Book** Process and analyze big data in a distributed and scalable way **Write sophisticated Spark pipelines that incorporate elaborate extraction** **Build and use regression models to predict flight delays** **Who This Book Is For** Are you a developer with a background in machine learning and statistics who is feeling limited by the current slow and “small data” machine learning tools? Then this is the book for you! In this book, you will create scalable machine learning applications to power a modern data-driven business using Spark. We assume that you already know the machine learning concepts and algorithms and have Spark up and running (whether on a cluster or locally) and have a basic knowledge of the various libraries contained in Spark. **What You Will Learn** **Use Spark streams to cluster tweets online** **Run the PageRank algorithm to compute user influence** **Perform complex manipulation of DataFrames using Spark** **Define Spark pipelines to compose individual data transformations** **Utilize generated models for off-line/on-line prediction** **Transfer the learning from an ensemble to a simpler Neural Network** **Understand basic graph properties and important graph operations** **Use GraphFrames, an extension of DataFrames to graphs, to study graphs using an elegant query language** **Use K-means algorithm to cluster movie reviews dataset** **In Detail** The purpose of machine learning is to build systems that learn from data. Being able to understand trends and patterns in complex data is critical to success; it is one of the key strategies to unlock growth in the challenging contemporary marketplace today. With the meteoric rise of machine learning, developers are now keen on finding out how can they make their Spark applications smarter. This book gives you access to transform data into actionable knowledge. The book commences by defining machine learning primitives by the MLlib and H2O libraries. You will learn how to

use Binary classification to detect the Higgs Boson particle in the huge amount of data produced by CERN particle collider and classify daily health activities using ensemble Methods for Multi-Class Classification. Next, you will solve a typical regression problem involving flight delay predictions and write sophisticated Spark pipelines. You will analyze Twitter data with help of the doc2vec algorithm and K-means clustering. Finally, you will build different pattern mining models using MLlib, perform complex manipulation of DataFrames using Spark and Spark SQL, and deploy your app in a Spark streaming environment. Style and approach This book takes a practical approach to help you get to grips with using Spark for analytics and to implement machine learning algorithms. We'll teach you about advanced applications of machine learning through illustrative examples. These examples will equip you to harness the potential of machine learning, through Spark, in a variety of enterprise-grade systems.

MASTERING JAKARTA STRUTS

[John Wiley & Sons](#) **Jakarta Struts Project** provides an open source framework for creating Web applications that leverage both the Java Servlets and JavaServer Pages technologies. Struts has received developer support and is quickly becoming a dominant actor in the open source community. **James Goodwill** is a well-respected authority and bestselling author of books on Java Web applications. Provides a hands-on, code-intensive tutorial on building Java Web applications using the Jakarta Struts Framework. Companion Web site provides electronic versions of all code examples in the book

MASTERING APACHE CAMEL

[Packt Publishing Ltd](#) This book will provide you with the skills you need to efficiently create routes using Apache Camel. After briefly introducing the key features and core concepts of Camel, the book will take you through all the important features and components, starting with routing and processors. You will learn how to use beans in Camel routes, covering everything from supported registries and annotations, to the creation of an OSGi bundle and writing route definitions with Blueprint DSL. Leverage the Enterprise Integration Patterns (EIPs) supported by Camel and implement them in your routes. You will then see how components and endpoints handle exchanges in Camel, and how you can use them to create a complete and powerful mediation framework. You will finally learn how to tackle errors and perform testing to ensure that your integration projects are working successfully.

MASTERING APACHE CASSANDRA 3.X

AN EXPERT GUIDE TO IMPROVING DATABASE SCALABILITY AND

AVAILABILITY WITHOUT COMPROMISING PERFORMANCE, 3RD EDITION

Packt Publishing Ltd **Build, manage, and configure high-performing, reliable NoSQL database for your applications with Cassandra Key Features** Write programs more efficiently using Cassandra's features with the help of examples Configure Cassandra and fine-tune its parameters depending on your needs Integrate Cassandra database with Apache Spark and build strong data analytics pipeline **Book Description** With ever-increasing rates of data creation, the demand for storing data fast and reliably becomes a need. Apache Cassandra is the perfect choice for building fault-tolerant and scalable databases. Mastering Apache Cassandra 3.x teaches you how to build and architect your clusters, configure and work with your nodes, and program in a high-throughput environment, helping you understand the power of Cassandra as per the new features. Once you've covered a brief recap of the basics, you'll move on to deploying and monitoring a production setup and optimizing and integrating it with other software. You'll work with the advanced features of CQL and the new storage engine in order to understand how they function on the server-side. You'll explore the integration and interaction of Cassandra components, followed by discovering features such as token allocation algorithm, CQL3, vnodes, lightweight transactions, and data modelling in detail. Last but not least you will get to grips with Apache Spark. By the end of this book, you'll be able to analyse big data, and build and manage high-performance databases for your application. What you will learn Write programs more efficiently using Cassandra's features more efficiently Exploit the given infrastructure, improve performance, and tweak the Java Virtual Machine (JVM) Use CQL3 in your application in order to simplify working with Cassandra Configure Cassandra and fine-tune its parameters depending on your needs Set up a cluster and learn how to scale it Monitor a Cassandra cluster in different ways Use Apache Spark and other big data processing tools **Who this book is for** Mastering Apache Cassandra 3.x is for you if you are a big data administrator, database administrator, architect, or developer who wants to build a high-performing, scalable, and fault-tolerant database. Prior knowledge of core concepts of databases is required.

MASTERING HADOOP

Packt Publishing Ltd **Do you want to broaden your Hadoop skill set and take your knowledge to the next level? Do you wish to enhance your knowledge of Hadoop to solve challenging data processing problems? Are your Hadoop jobs, Pig scripts, or Hive queries not working as fast as you intend? Are you looking to understand the benefits of upgrading Hadoop? If the answer is yes to any of these, this book is for you. It assumes novice-level familiarity with Hadoop.**

MASTERING JAVA

A BEGINNER'S GUIDE

CRC Press **Mastering Java: A Beginner's Guide** introduces developers of all ages to the beautiful and valuable world of Java. Java is frequently used as the default platform for scientific applications, including natural language processing. The primary reason for this is that it is secure, portable, and extensible. It also has excellent high-level concurrency tools. In terms of software development, the introduction of Java undoubtedly was a watershed moment. You've surely heard of Java if you're a software developer. For a multitude of reasons, its relevance and functionality in the world of coding deserve high acclaim. Computers have become highly adaptable devices that can handle multi-level undo and multi-threaded apps, mostly thanks to Java. As its syntax is comparable to English, Java is relatively simple to learn and understand in a short period of time. Despite being a slightly older piece of technology, Java still performs well. It is regularly ranked among the most popular languages of programming. It is critical for enterprise-level web apps and microservices, which are expected to grow in popularity over the coming year. Java will continue to dominate the banking industry and the Fintech business for years to come. **Mastering Java** addresses various aspects pertaining to Java development. **Mastering Java** will prove to be of enormous assistance to Java developers of all levels. This book focuses on a variety of topics; it provides a concise explanation of Java's introduction, benefits, characteristics, and examines why Java is so essential. **Mastering Java** also includes installation advice and information on the many components that make Java work, such as Object-Oriented Programming, Strings, Collections, Packages, and Databases. **Mastering Java** will always be a helpful resource for both intermediate learners and skilled personnel. Learn more about our other **Mastering** titles at:

<https://www.routledge.com/Mastering-Computer-Science/book-series/MCS>

SPRING BOOT IN PRACTICE

Simon and Schuster **Go beyond the basics with Spring Boot!** This practical guide presents dozens of relevant scenarios in a convenient problem-solution-discussion format. **Spring Boot in Practice** covers dozens of handy Spring Boot development techniques, from basic functions to hidden features you probably didn't even know existed. Each recipe is built around a real-world problem, complete with a full solution and thoughtful discussion. You'll work your way from fundamentals to advanced functionalities as you take deep dives into auto-configuration, security implementation, and even support for reactive application development. Learn how to work with Spring Boot and Kotlin, handling connections for multiple platforms, and how Spring Boot can simplify building microservices and APIs. You're sure to keep this practical book on hand as

a reference as you build your next Spring Boot apps. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

MASTERING SCALA MACHINE LEARNING

Packt Publishing Ltd **Advance your skills in efficient data analysis and data processing using the powerful tools of Scala, Spark, and Hadoop About This Book** This is a primer on functional-programming-style techniques to help you efficiently process and analyze all of your data Get acquainted with the best and newest tools available such as Scala, Spark, Parquet and MLlib for machine learning Learn the best practices to incorporate new Big Data machine learning in your data-driven enterprise to gain future scalability and maintainability **Who This Book Is For** Mastering Scala Machine Learning is intended for enthusiasts who want to plunge into the new pool of emerging techniques for machine learning. Some familiarity with standard statistical techniques is required. **What You Will Learn** Sharpen your functional programming skills in Scala using REPL Apply standard and advanced machine learning techniques using Scala Get acquainted with Big Data technologies and grasp why we need a functional approach to Big Data Discover new data structures, algorithms, approaches, and habits that will allow you to work effectively with large amounts of data Understand the principles of supervised and unsupervised learning in machine learning Work with unstructured data and serialize it using Kryo, Protobuf, Avro, and AvroParquet Construct reliable and robust data pipelines and manage data in a data-driven enterprise Implement scalable model monitoring and alerts with Scala **In Detail** Since the advent of object-oriented programming, new technologies related to Big Data are constantly popping up on the market. One such technology is Scala, which is considered to be a successor to Java in the area of Big Data by many, like Java was to C/C++ in the area of distributed programming. This book aims to take your knowledge to next level and help you impart that knowledge to build advanced applications such as social media mining, intelligent news portals, and more. After a quick refresher on functional programming concepts using REPL, you will see some practical examples of setting up the development environment and tinkering with data. We will then explore working with Spark and MLlib using k-means and decision trees. Most of the data that we produce today is unstructured and raw, and you will learn to tackle this type of data with advanced topics such as regression, classification, integration, and working with graph algorithms. Finally, you will discover at how to use Scala to perform complex concept analysis, to monitor model performance, and to build a model repository. By the end of this book, you will have gained expertise in performing Scala machine learning and will be able to build complex machine learning projects using Scala. **Style and approach** This hands-on guide dives straight into implementing Scala for machine learning without delving much into

mathematical proofs or validations. There are ample code examples and tricks that will help you sail through using the standard techniques and libraries. This book provides practical examples from the field on how to correctly tackle data analysis problems, particularly for modern Big Data datasets.

MASTERING HIBERNATE

Packt Publishing Ltd **Learn how to correctly utilize the most popular Object-Relational Mapping tool for your Enterprise application** **About This Book** **Understand the internals of Hibernate and its architecture, and how it manages Entities, Events, Versioning, Filters, and Cache** **Observe how Hibernate bridges the gap between object-oriented concepts and relational models** **Discover how Hibernate can address architectural concerns such as Transaction, Database Multi-tenancy, Clustering, and Database Shards** **Who This Book Is For** **Mastering Hibernate is intended for those who are already using or considering using Hibernate as the solution to address the problem of Object Relational Mapping. If you are already using Hibernate, this book will help you understand the internals and become a power user of Hibernate. What You Will Learn** **Understand the internals of a Hibernate session and how Entities are managed** **Declare better mapping between entity classes and database tables** **Manage entity associations and collections** **Fetch data not just by entity ID, but also using HQL, Criteria Objects, Filters, and Native SQL** **Observe the first and second level caches and find out how to manage them** **Collect statistics and metrics data for further observation** **Make your application work with multi-tenant databases** **In Detail** **Hibernate has been so successful since its inception that it even influenced the Java Enterprise Edition specification in that the Java Persistence API was dramatically changed to do it the Hibernate way. Hibernate is the tool that solves the complex problem of Object Relational Mapping. It can be used in both Java Enterprise applications as well as .Net applications. Additionally, it can be used for both SQL and NoSQL data stores. Some developers learn the basics of Hibernate and hit the ground quickly. But when demands go beyond the basics, they take a reactive approach instead of learning the fundamentals and core concepts. However, the secret to success for any good developer is knowing and understanding the tools at your disposal. It's time to learn about your tool to use it better** **This book first explores the internals of Hibernate by discussing what occurs inside a Hibernate session and how Entities are managed. Then, we cover core topics such as mapping, querying, caching, and we demonstrate how to use a wide range of very useful annotations. Additionally, you will learn how to create event listeners or interceptors utilizing the improved architecture in the latest version of Hibernate. Style and approach** **This book takes a close look at the core topics, and helps you understand the complex topics by showing you examples and giving you in-depth discussions.**

PROGRAMMING HIVE

[O'Reilly Media, Inc.](#) **Need to move a relational database application to Hadoop? This comprehensive guide introduces you to Apache Hive, Hadoop's data warehouse infrastructure. You'll quickly learn how to use Hive's SQL dialect—HiveQL—to summarize, query, and analyze large datasets stored in Hadoop's distributed filesystem. This example-driven guide shows you how to set up and configure Hive in your environment, provides a detailed overview of Hadoop and MapReduce, and demonstrates how Hive works within the Hadoop ecosystem. You'll also find real-world case studies that describe how companies have used Hive to solve unique problems involving petabytes of data. Use Hive to create, alter, and drop databases, tables, views, functions, and indexes Customize data formats and storage options, from files to external databases Load and extract data from tables—and use queries, grouping, filtering, joining, and other conventional query methods Gain best practices for creating user defined functions (UDFs) Learn Hive patterns you should use and anti-patterns you should avoid Integrate Hive with other data processing programs Use storage handlers for NoSQL databases and other datastores Learn the pros and cons of running Hive on Amazon's Elastic MapReduce**

MASTERING KAFKA STREAMS AND KSQLDB

[O'Reilly Media](#) **Working with unbounded and fast-moving data streams has historically been difficult. But with Kafka Streams and ksqlDB, building stream processing applications is easy and fun. This practical guide shows data engineers how to use these tools to build highly scalable stream processing applications for moving, enriching, and transforming large amounts of data in real time. Mitch Seymour, data services engineer at Mailchimp, explains important stream processing concepts against a backdrop of several interesting business problems. You'll learn the strengths of both Kafka Streams and ksqlDB to help you choose the best tool for each unique stream processing project. Non-Java developers will find the ksqlDB path to be an especially gentle introduction to stream processing. Learn the basics of Kafka and the pub/sub communication pattern Build stateless and stateful stream processing applications using Kafka Streams and ksqlDB Perform advanced stateful operations, including windowed joins and aggregations Understand how stateful processing works under the hood Learn about ksqlDB's data integration features, powered by Kafka Connect Work with different types of collections in ksqlDB and perform push and pull queries Deploy your Kafka Streams and ksqlDB applications to production**

MASTERING SPARK WITH R

THE COMPLETE GUIDE TO LARGE-SCALE ANALYSIS AND MODELING

[O'Reilly Media](#) **If you're like most R users, you have deep knowledge and love**

for statistics. But as your organization continues to collect huge amounts of data, adding tools such as Apache Spark makes a lot of sense. With this practical book, data scientists and professionals working with large-scale data applications will learn how to use Spark from R to tackle big data and big compute problems. Authors Javier Luraschi, Kevin Kuo, and Edgar Ruiz show you how to use R with Spark to solve different data analysis problems. This book covers relevant data science topics, cluster computing, and issues that should interest even the most advanced users. Analyze, explore, transform, and visualize data in Apache Spark with R Create statistical models to extract information and predict outcomes; automate the process in production-ready workflows Perform analysis and modeling across many machines using distributed computing techniques Use large-scale data from multiple sources and different formats with ease from within Spark Learn about alternative modeling frameworks for graph processing, geospatial analysis, and genomics at scale Dive into advanced topics including custom transformations, real-time data processing, and creating custom Spark extensions

MASTERING BEA WEBLOGIC SERVER

BEST PRACTICES FOR BUILDING AND DEPLOYING J2EE APPLICATIONS

[John Wiley & Sons](#)

MAVEN: THE DEFINITIVE GUIDE

THE DEFINITIVE GUIDE

["O'Reilly Media, Inc."](#) For too long, developers have worked on disorganized application projects, where every part seemed to have its own build system, and no common repository existed for information about the state of the project. Now there's help. The long-awaited official documentation to Maven is here. Written by Maven creator Jason Van Zyl and his team at Sonatype, *Maven: The Definitive Guide* clearly explains how this tool can bring order to your software development projects. Maven is largely replacing Ant as the build tool of choice for large open source Java projects because, unlike Ant, Maven is also a project management tool that can run reports, generate a project website, and facilitate communication among members of a working team. To use Maven, everything you need to know is in this guide. The first part demonstrates the tool's capabilities through the development, from ideation to deployment, of several sample applications -- a simple software development project, a simple web application, a multi-module project, and a multi-module enterprise project. The second part offers a complete reference guide that includes: The POM and Project Relationships The Build Lifecycle Plugins Project website generation Advanced site generation Reporting Properties Build Profiles The Maven Repository Team Collaboration Writing Plugins IDEs such as Eclipse, IntelliJ, and NetBeans Using and creating assemblies Developing

with Maven Archetypes Several sources for Maven have appeared online for some time, but nothing served as an introduction and comprehensive reference guide to this tool -- until now. **Maven: The Definitive Guide** is the ideal book to help you manage development projects for software, web applications, and enterprise applications. And it comes straight from the source.

MASTERING SELENIUM WEBDRIVER 3.0

BOOST THE PERFORMANCE AND RELIABILITY OF YOUR AUTOMATED CHECKS BY MASTERING SELENIUM WEBDRIVER, 2ND EDITION

[Packt Publishing Ltd](#) **Selenium WebDriver is an automation tool used by software developers to test the web applications. In this book you will gain a deep understanding of Selenium as a test tool and learn series of strategies that will help you create reliable and extensible test frameworks. Also focus on Java WebDriver API and learn to run tests on multiple browsers.**

APACHE MAVEN COOKBOOK

[Packt Publishing Ltd](#) **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.**

MAVEN ESSENTIALS

[Packt Publishing Ltd](#) **Get started with the essentials of Apache Maven and get your build automation system up and running quickly About This Book Explore the essentials of Apache Maven essentials to arm yourself with all the ingredients needed to develop a comprehensive build automation system Identify the extension points in Apache Maven and learn more about them in-depth Improve developer productivity by optimizing the build process with best practices in Maven using this compact guide Who This Book Is For The book is ideal for for experienced developers who are already familiar with build automation, but want to learn how to use Maven and apply its concepts to the most difficult scenarios in build automation. What You Will Learn Comprehend the key concepts in Apache Maven Build your own custom plugins and get to know how Maven extension points are used Troubleshoot build issues with greater confidence Optimize Maven's configuration settings Write custom lifecycles and extensions Get hands-on and create a Maven assembly Explore the best practices to design a build system that improves developer productivity In Detail Maven is the #1 build tool used by developers and it has been around for more than a decade. Maven stands out among other build tools due to its extremely**

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

JAKARTA STRUTS COOKBOOK

MASTERING JAKARTA STRUTS, SOLUTION BY SOLUTION

"O'Reilly Media, Inc." The Jakarta Struts Framework is a popular open source platform for building web applications from top to bottom with Java. While this popularity has led to a wealth of online and in-print documentation, developers still find themselves faced with a number of common tasks that are not clearly and succinctly explained. In these situations, programmers can now turn to the Jakarta Struts Cookbook an amazing collection of code solutions to common--and uncommon--problems encountered when working with the Struts Framework. Among many other recipes, this book explains how to: display data in complex HTML tables use JSP, the JSTL, and JavaScript in your user interface define static and dynamic action forms validate data and respond to errors use Logging, Validation, and Exception Handling integrate Struts with persistence frameworks like Hibernate and iBATIS This look-up reference is just what today's time-pressed developers need. With solutions to real-world problems just a few page flips away, information is instantly available. And while the book's solutions focus on getting to the point, each recipe's discussion section imparts valuable concept and insight from a Struts veteran. The Jakarta Struts Cookbook is perfect for independent developers, large development teams, and everyone in between who wishes to use the Struts Framework to its fullest potential. Plus, it's completely up-to-date with the latest versions of Framework, so readers can be sure the information is viable.

MASTERING APACHE VELOCITY

John Wiley & Sons Incorporated This code-intensive tutorial shows developers

how to use Velocity 2.0, a Java-based template engine from the Jakarta Project, to build Web sites with Struts, servlets, Turbine, and other open-source tools Explores the versatility of Velocity and how it can be used for both Web development and for generating a wide range of Web content and programming code, such as Java, XML, and SQL Includes in-depth coverage of the Velocity Template Language Demonstrates how to build a robust Web application that integrates all of the techniques and technologies covered in the book Companion Web site provides all of the code examples in the book, plus links to related sites for downloading Velocity and the other tools discussed

MASTERING JENKINS

Packt Publishing Ltd **Configure and extend Jenkins to architect, build, and automate efficient software delivery pipelines** About This Book **Configure and horizontally scale a Jenkins installation to support a development organization of any size Implement Continuous Integration, Continuous Delivery, and Continuous Deployment solutions in Jenkins A step-by-step guide to help you get the most out of the powerful automation orchestration platform that is Jenkins Who This Book Is For** If you are a novice or intermediate-level Jenkins user who has used Jenkins before but are not familiar with architecting solutions and implementing it in your organization, then this is the book for you. A basic understanding of the core elements of Jenkins is required to make the best use of this book. **What You Will Learn** Create and manage various types of build jobs, and implement automation tasks to support a software project of any kind Get to grips with the automated testing architecture, and scalable automated testing techniques Facilitate the delivery of software across the SDLC by creating scalable automated deployment solutions **Manage scalable automation pipelines in Jenkins using the latest build, test, and deployment strategies Implement a scalable master / slave build automation platform, which can support Windows, Mac OSX, and Linux software solutions Cover troubleshooting and advanced configuration techniques for Jenkins slave nodes Support a robust build and delivery system by implementing basic infrastructure as code solutions in configuration management tools such as Ansible** **In Detail** With the software industry becoming more and more competitive, organizations are now integrating delivery automation and automated quality assurance practices into their business model. Jenkins represents a complete automation orchestration system, and can help converge once segregated groups into a cohesive product development and delivery team. By mastering the Jenkins platform and learning to architect and implement Continuous Integration, Continuous Delivery, and Continuous Deployment solutions, your organization can learn to outmanoeuvre and outpace the competition. This book will equip you with the best practices to implement advanced continuous delivery and deployment systems in Jenkins. The

book begins with giving you high-level architectural fundamentals surrounding Jenkins and Continuous Integration. You will cover the different installation scenarios for Jenkins, and see how to install it as a service, as well as the advanced XML configurations. Then, you will proceed to learn more about the architecture and implementation of the Jenkins Master/Slave node system, followed by creating and managing Jenkins build jobs effectively. Furthermore, you'll explore Jenkins as an automation orchestration system, followed by implementing advanced automated testing techniques. The final chapters describe in depth the common integrations to Jenkins from third-party tools such as Jira, Artifactory, Amazon EC2, and getting the most out of the Jenkins REST-based API. By the end of this book, you will have all the knowledge necessary to be the definitive resource for managing and implementing advanced Jenkins automation solutions for your organization. Style and approach This book is a step-by-step guide to architecting and implementing automated build solutions, automated testing practices, and automated delivery methodologies. The topics covered are based on industry-proven techniques, and are explained in a simple and easy to understand manner.

MASTERING APACHE CASSANDRA 3.X - THIRD EDITION

Build, manage, and configure high-performing, reliable NoSQL database for your applications with Cassandra Key Features Write programs more efficiently using Cassandra's features with the help of examples Configure Cassandra and fine-tune its parameters depending on your needs Integrate Cassandra database with Apache Spark and build strong data analytics pipeline Book Description With ever-increasing rates of data creation, the demand for storing data fast and reliably becomes a need. Apache Cassandra is the perfect choice for building fault-tolerant and scalable databases. Mastering Apache Cassandra 3.x teaches you how to build and architect your clusters, configure and work with your nodes, and program in a high-throughput environment, helping you understand the power of Cassandra as per the new features. Once you've covered a brief recap of the basics, you'll move on to deploying and monitoring a production setup and optimizing and integrating it with other software. You'll work with the advanced features of CQL and the new storage engine in order to understand how they function on the server-side. You'll explore the integration and interaction of Cassandra components, followed by discovering features such as token allocation algorithm, CQL3, vnodes, lightweight transactions, and data modelling in detail. Last but not least you will get to grips with Apache Spark. By the end of this book, you'll be able to analyse big data, and build and manage high-performance databases for your application. What you will learn Write programs more efficiently using Cassandra's features more efficiently Exploit the given infrastructure, improve performance, and tweak the Java Virtual Machine

(JVM) Use CQL3 in your application in order to simplify working with Cassandra Configure Cassandra and fine-tune its parameters depending on your needs Set up a cluster and learn how to scale it Monitor a Cassandra cluster in different ways Use Apache Spark and other big data processing tools Who this book is for Mastering Apache Cassandra 3.x is for you if you are a big data administrator, database administrator, architect, or developer who wants to build a high-performing, scalable, and fault-tolerant database. Prior knowledge of core concepts of databases is required.

MASTERING GRADLE

Packt Publishing Ltd With Gradle, you can efficiently build automation framework along with some flexible alternatives to customized build logic. This book starts with sound basics about build automation and how Gradle fits into this automation. It then moves on to give you a good exposure on Groovy—a scripting language used to write Gradle—and helps you understand a key elements of Groovy programming language. In the following chapters, you will deal with task management and learn how to integrate Ant tasks into build scripts. Furthermore, you will learn dependency management, plugin management, and its configuration techniques in Gradle. You will also get hands-on with building and testing projects using Gradle. You will then begin to cover diverse topics, such as Continuous Integration with Jenkins and TeamCity, Migration strategies, and Deployment, which enables you to learn concepts useful for Agile software development. Finally, you will also learn how to create a simple mobile application using Android and explore how Gradle can help you to build and test the application.