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Building Data Streaming Applications with Apache Kafka Feb 26 2023 Design and administer fast, reliable enterprise messaging systems with Apache Kafka About This Book Build efficient real-time streaming applications in Apache Kafka to process data streams of data Master the core Kafka APIs to set up Apache Kafka clusters and start writing message producers and consumers A comprehensive guide to help you get a solid grasp of the Apache Kafka concepts in Apache Kafka with practical examples Who This Book Is For If you want to learn how to use Apache Kafka and the different tools in the Kafka ecosystem in the easiest possible manner, this book is for you. Some programming experience with Java is required to get the most out of this book What You Will Learn Learn the basics of Apache Kafka from scratch Use the basic building blocks of a streaming application Design effective streaming applications with Kafka using Spark, Storm, and Heron Understand the importance of a low-latency, high-throughput, and fault-tolerant messaging system Make effective capacity planning while deploying your Kafka Application Understand and implement the best security practices In Detail Apache Kafka is a popular distributed streaming platform that acts as a messaging queue or an enterprise messaging system. It lets you publish and subscribe to a stream of records, and process them in a fault-tolerant way as they occur. This book is a comprehensive guide to designing and architecting enterprise-grade streaming applications using Apache Kafka and other big data tools. It includes best practices for building such applications, and tackles some common challenges such as how to use Kafka efficiently and handle high data volumes with ease. This book first takes you through understanding the type messaging system and then provides a thorough introduction to Apache Kafka and its internal details. The second part of the book takes you through designing streaming application using various frameworks and tools such as Apache Spark, Apache Storm, and more. Once you grasp the basics, we will take you through more advanced concepts in Apache Kafka such as capacity planning and security. By the end of this book, you will have all the information you need to be comfortable with using Apache Kafka, and to design efficient streaming data applications with it. Style and approach A step-by-step, comprehensive guide filled with practical and real-world examples

Apache Maven 2 Effective Implementation Aug 11 2021 All material in the book will be worked through by example, building up a sample application. It is intended to be read through in sequence, though once complete, should serve as a suitable reference for certain cases that can be referred to directly. This book is for Java developers who want to get started with Apache Maven. If you are tasked with build automation in your company, this book will help you to quickly and easily get started with Maven in order to improve the efficiency of your builds.

[Apache Cordova in Action](#) Jun 28 2020 Summary Apache Cordova in Action teaches you to create and launch hybrid mobile apps using Cordova or Phonegap. By following carefully selected examples, step-by-step tutorials, and crystal-clear explanations, you'll learn to build apps from the Cordova CLI, how to make use of device features like the camera and accelerometer, how to submit your apps to Google Play and the Apple App Store, and more. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book Developing a mobile app requires extensive knowledge of native programming techniques for

multiple platforms. Apache Cordova lets you use your existing skills in web development (HTML, CSS, and JavaScript) to build powerful mobile apps. Your apps also get the power of integration with native device features like the camera and file system. Apache Cordova in Action teaches you how to design, create, and launch hybrid mobile apps people will want to use. With the help of straightforward, real-world examples, you'll learn to build apps from the Cordova CLI and to make use of native device features like the camera and accelerometer. You'll learn testing techniques and discover the PhoneGap Build service and how to submit your apps to Google Play and the Apple App Store. Along the way, this helpful guide discusses mobile app design and shows you how to create effective, professional-quality UI and UX. What's Inside Build mobile apps UI, UX, and testing techniques Deploy to Google Play and the Apple App Store Employ libraries like Bootstrap, jQuery Mobile, and Ionic About the Reader Readers should be familiar with HTML, CSS, and JavaScript. No experience with mobile app development needed. About the Author Raymond Camden is a developer advocate for IBM. He is passionate about mobile development and has spoken at conferences worldwide. The Table of Contents PART 1 GETTING STARTED WITH APACHE CORDOVA What is Cordova? Installing Cordova and the Android SDK PART 2 CORE CONCEPTS Creating Cordova projects Using plugins to access device features Mobile design and user experience Considerations when building mobile apps Tools for debugging Cordova and other hybrid apps Creating custom plugins Packing options for Cordova projects Using PhoneGap tools PART 3 APPLICATION RELEASE Submitting your app Building an RSS reader app with Ionic

Apache Struts 2 Web Application Development May 20 2022 A beginner's guide for Java developers.

Learning Apache Karaf Mar 25 2020

Apache Pulsar in Action Apr 26 2020 Deliver lightning fast and reliable messaging for your distributed applications with the flexible and resilient Apache Pulsar platform. In Apache Pulsar in Action you will learn how to: Publish from Apache Pulsar into third-party data repositories and platforms Design and develop Apache Pulsar functions Perform interactive SQL queries against data stored in Apache Pulsar Apache Pulsar in Action is a comprehensive and practical guide to building high-traffic applications with Pulsar. You'll learn to use this mature and battle-tested platform to deliver extreme levels of speed and durability to your messaging. Apache Pulsar committer David Kjerrumgaard teaches you to apply Pulsar's seamless scalability through hands-on case studies, including IOT analytics applications and a microservices app based on Pulsar functions. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Reliable server-to-server messaging is the heart of a distributed application. Apache Pulsar is a flexible real-time messaging platform built to run on Kubernetes and deliver the scalability and resilience required for cloud-based systems. Pulsar supports both streaming and message queuing, and unlike other solutions, it can communicate over multiple protocols including MQTT, AMQP, and Kafka's binary protocol. About the book Apache Pulsar in Action teaches you to build scalable streaming messaging systems using Pulsar. You'll start with a rapid introduction to enterprise messaging and discover the unique benefits of Pulsar. Following crystal-clear explanations and engaging examples, you'll use the Pulsar Functions framework to develop a microservices-based application. Real-world case studies illustrate how to implement the most important messaging design patterns. What's inside Publish from Pulsar into third-party data repositories and platforms Design and develop Apache Pulsar functions Create an event-driven food delivery application About the reader Written for experienced Java developers. No prior knowledge of Pulsar required. About the author David Kjerrumgaard is a committer on the Apache Pulsar project. He currently serves as a Developer Advocate for StreamNative, where he develops Pulsar best practices and solutions. Table of Contents PART 1 GETTING STARTED WITH APACHE PULSAR 1 Introduction to Apache Pulsar 2 Pulsar concepts and architecture 3 Interacting with Pulsar PART 2 APACHE PULSAR DEVELOPMENT ESSENTIALS 4 Pulsar functions 5 Pulsar IO connectors 6 Pulsar security 7 Schema registry PART 3 HANDS-ON APPLICATION DEVELOPMENT WITH APACHE PULSAR 8 Pulsar Functions patterns 9 Resiliency patterns 10 Data access 11 Machine learning in Pulsar 12 Edge analytics

Web Application Design and Implementation Dec 03 2020 This new edition offers readers the latest coverage on web design and implementation. Fully updated to feature all the most current versions and how to install them, while still including their earlier versions, the book includes information and improvements to HTML, PHP, MySQL, JavaScript, Linux, Apache, CSS, and more. New chapters cover AJAX, web security, JQuery, and browsers as web tools. Enhanced material places a special focus on CSS3 while end-of-chapter problems and a solutions manual contribute to a stronger learning foundation.

Pro Apache Struts with Ajax Sep 11 2021 In this book, the authors take an application-centric approach: the development of an application drives the Struts along with Ajax coverage, rather than the other way around. Chapter titles include: What We Do Wrong: Web Antipatterns Explained; Managing Business Logic with Struts; Architecting the Data Access Tier with ObjectRelationalBridge; Building Flexible Front-Ends with the Tiles

Framework; Dynamic Forms using Ajax and the Struts Validator Framework; Speeding Struts Development with XDoclet, and Logging and Debugging. Appendices discuss JavaEdge setup, Struts development tools, and Apache Struts Ti/WebWork. The end result: you will learn to use Struts very effectively!

Hadoop Application Architectures May 27 2020 Get expert guidance on architecting end-to-end data management solutions with Apache Hadoop. While many sources explain how to use various components in the Hadoop ecosystem, this practical book takes you through architectural considerations necessary to tie those components together into a complete tailored application, based on your particular use case. To reinforce those lessons, the book's second section provides detailed examples of architectures used in some of the most commonly found Hadoop applications. Whether you're designing a new Hadoop application, or planning to integrate Hadoop into your existing data infrastructure, Hadoop Application Architectures will skillfully guide you through the process. This book covers: Factors to consider when using Hadoop to store and model data Best practices for moving data in and out of the system Data processing frameworks, including MapReduce, Spark, and Hive Common Hadoop processing patterns, such as removing duplicate records and using windowing analytics Giraph, GraphX, and other tools for large graph processing on Hadoop Using workflow orchestration and scheduling tools such as Apache Oozie Near-real-time stream processing with Apache Storm, Apache Spark Streaming, and Apache Flume Architecture examples for clickstream analysis, fraud detection, and data warehousing

Learning Storm Nov 25 2022 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.

Developing Spark Applications with Python Dec 15 2021 If you are going to work with Big Data or Machine Learning, you need to learn Apache Spark. If you need to learn Spark, you should get this book. About the Book: Ever since the dawn of civilization, humans have had a need for organizing data. Accounting has existed for thousands of years. It was initially used to account for crops and herds, but later on was adopted for many other uses. Simple analog methods were used at first, which at some point evolved into mechanical devices. Fast-forward a few years, and we get to the digital era, where things like databases and spreadsheets started to be used to manage ever-growing amounts of data. How much data? A lot. More than what a human could manage in their mind or using analog methods, and it's still growing. Paraphrasing a smart man, developing applications that worked with data went something like this: You took a group of developers, put them into a room, fed them a lot of pizza, and wrote a big check for the largest database that you could buy, and another one for the largest metal box on the market. Eventually, you got an application capable of handling large amounts of data for your enterprise. But as expected, things change--they always do, don't they? We reached an era of information explosion, in large part thanks to the internet. Data started to be created at an unprecedented rate; so much so that some of these data sets cannot be managed and processed using traditional methods. In fact, we can say that the internet is partly responsible for taking us into the Big Data era. Hadoop was created at Yahoo to help crawl the internet, something that could not be done with traditional methods. The Yahoo engineers that created Hadoop were inspired by two papers released by Google that explained how they solved the problem of working with large amounts of data in parallel. But Big Data was more than just Hadoop. Soon enough, Hadoop, which initially was meant to refer to the framework used for distributed processing of large amounts of data (MapReduce), started to become more of an umbrella term to describe an ecosystem of tools and platforms capable of massive parallel processing of data. This included Pig, Hive, Impala, and many more. But sometime around 2009, a research project in UC Berkeley AMPLab was started by Matei Zaharia. At first, according to legend, the original project was building a cluster management framework, known as mesos. Once mesos was born, they wanted to see how easy it was to build a framework from scratch in mesos, and that's how Spark was born. Spark can help you process large amounts of data, both in the Data Engineering world, as well as in the Machine Learning one. Welcome to the Spark era! Table of Contents 1 The Spark Era 2 Understanding Apache Spark 3 Getting Technical with Spark 4 Spark's RDDs 5 Going Deeper into Spark Core 6 Data Frames and Spark SQL 7 Spark SQL 8 Understanding Typed API: DataSet 9 Spark Streaming 10 Exploring NOAA's Datasets 11 Final words 12 About the Authors

Pro Apache NetBeans Jan 28 2023 Take a detailed look at the NetBeans IDE and new features in the NetBeans Platform. Learn about support for JShell, the Jigsaw Module System, and Local Variable Type Inference, focusing on what this new version of NetBeans brings to developers who are working in Java and other supported languages. The book is a practical, hands-on guide providing a number of step-by-step recipes that help you take advantage of the power in the latest Java (and other) software platforms, and gives a good grounding on using NetBeans IDE for your projects. This book has been written by Apache community members who both use the IDE and actively contribute and develop Apache NetBeans as an open source project. Pro Apache NetBeans consists

of three parts. The first part describes how to use the IDE as well as the new features that it brings to support the latest Java versions. The second part describes how you can extend NetBeans by creating plugins and writing your own applications using the Rich Client Platform. The third part describes how you can contribute to develop NetBeans IDE further, becoming part of the open source team that is driving future developments in the toolset. What You Will Learn Work faster and more effectively by applying expert tips and tricks Apply NetBeans' most cutting-edge features to your Java development Debug your applications using intuitive features built into the IDE Identify performance issues in your application by using the NetBeans profiler Develop using the latest API of the NetBeans Rich Client Platform Extend Apache NetBeans by creating plugins built on the Rich Client Platform Build NetBeans from source and understand the internals of NetBeans itself Contribute to the large community that supports and develops NetBeans Who This Book Is For Developers who want to know the latest features in NetBeans, as well as how the transition to Apache has affected the future of the NetBeans IDE. The book is also of interest to those desiring to become contributors to the NetBeans project and to influence its future development. Java developers who need to create a new desktop application from scratch also will benefit from this book.

The Apache Modules Book Mar 30 2023 "Do you learn best by example and experimentation? This book is ideal. Have your favorite editor and compiler ready—you'll encounter example code you'll want to try right away. You've picked the right book—this is sure to become the de facto standard guide to writing Apache modules." —Rich Bowen, coauthor, Apache Administrators Handbook, Apache Cookbook, and The Definitive Guide to Apache mod_rewrite "A first-rate guide to getting the most out of Apache as a modular application platform—sure to become a must-read for any Apache programmer, from beginner to experienced professional. It builds up carefully and meticulously from the absolute basics, while including chapters on everything from the popular Apache DBD Framework to best practices, security, and debugging." —Noirin Plunkett, documentation committer to the Apache httpd project, and member of the ASF conference committee The Only Comprehensive Guide to Developing Apache 2.x Modules and Applications Apache is more than the world's most popular Web server—it's also an extraordinarily powerful and extensible development platform. Now, ApacheTutor.org's Nick Kew has written The Apache Modules Book, the first start-to-finish, example-rich guide for every developer who wants to make the most of Apache. Kew begins with detailed, accessible introductions to Apache's architecture and API, then illuminates all the techniques you'll need, from request processing through code security. He brings together the best of both worlds: powerful C-based techniques for accomplishing tasks Perl or PHP can't handle, implemented with tools that deliver all the productivity you'd expect from higher-level languages. Utilizing realistic code samples, Kew introduces techniques documented in no other book—and, often, nowhere else at all. Coverage includes Using Apache Portable Runtime (APR) to streamline C development and avoid its pitfalls Leveraging Apache DBD to build applications far more scalable than classic LAMP software Working with the latest Apache 2.x features: filter modules, XML support, and smart proxies Mastering best practices, from thread safety to multi-platform development Utilizing the Apache Authentication Framework Tracing and debugging problems in both Apache and your custom modules Foreword Preface Acknowledgments About the Author Chapter 1 Applications Development with Apache Chapter 2 The Apache Platform and Architecture Chapter 3 The Apache Portable Runtime Chapter 4 Programming Techniques and Caveats Chapter 5 Writing a Content Generator Chapter 6 Request Processing Cycle and Metadata Handlers Chapter 7 AAA: Access, Authentication, and Authorization Chapter 8 Filter Modules Chapter 9 Configuration for Modules Chapter 10 Extending the API Chapter 11 The Apache Database Framework Chapter 12 Module Debugging Appendix A Apache License Appendix B Contributor License Agreements Appendix C Hypertext Transfer Protocol: HTTP/1.1 Index About the Web Site ApacheTutor.org contains code examples from the book, all designed for easy use and integration into existing applications.

Hands-On Deep Learning with Apache Spark Dec 27 2022 Speed up the design and implementation of deep learning solutions using Apache Spark Key Features Explore the world of distributed deep learning with Apache Spark Train neural networks with deep learning libraries such as BigDL and TensorFlow Develop Spark deep learning applications to intelligently handle large and complex datasets Book Description Deep learning is a subset of machine learning where datasets with several layers of complexity can be processed. Hands-On Deep Learning with Apache Spark addresses the sheer complexity of technical and analytical parts and the speed at which deep learning solutions can be implemented on Apache Spark. The book starts with the fundamentals of Apache Spark and deep learning. You will set up Spark for deep learning, learn principles of distributed modeling, and understand different types of neural nets. You will then implement deep learning models, such as convolutional neural networks (CNNs), recurrent neural networks (RNNs), and long short-term memory (LSTM) on Spark. As you progress through the book, you will gain hands-on experience of what it takes to understand the complex datasets you are dealing with. During the course of this book, you will use popular deep learning frameworks, such as TensorFlow, Deeplearning4j, and Keras to train your distributed models. By the end of this book, you'll have gained experience

with the implementation of your models on a variety of use cases. What you will learn

Understand the basics of deep learning
Set up Apache Spark for deep learning
Understand the principles of distribution modeling and different types of neural networks
Obtain an understanding of deep learning algorithms
Discover textual analysis and deep learning with Spark
Use popular deep learning frameworks, such as Deeplearning4j, TensorFlow, and Keras
Explore popular deep learning algorithms

Who this book is for If you are a Scala developer, data scientist, or data analyst who wants to learn how to use Spark for implementing efficient deep learning models, *Hands-On Deep Learning with Apache Spark* is for you. Knowledge of the core machine learning concepts and some exposure to Spark will be helpful.

Heron Streaming Nov 13 2021 This book provides both a basic understanding of stream processing in general, and practical guidance for development and research with Apache Heron in particular. It delivers to developers of streaming applications basic and systematic knowledge about Heron, which is today only scattered across project documents, technique blogs and code snippets on the Web. The book is organized in four parts: Part I describes basic knowledge about stream processing, Apache Storm, and Apache Heron (Incubating), and also introduces the Heron source repository. Part II then goes into details and describes two data models to write Heron topologies and often used topology features, including stateful processing. This part is especially targeted at software developers who write topologies using Heron APIs. Next, part III describes Heron tools, including the command-line interface and the user interface, needed to manage a single topology or multiple topologies in a data center. This part is particularly aimed at operators who deploy and manage running jobs. Eventually, part IV describes the Heron source code and how to customize or extend Heron. This part is especially suggested for software engineers who would like to contribute code to the Heron repository and who are curious about Heron insights. Overall, this book aims at professionals who want to process streaming data based on Apache Heron. A basic knowledge of Java and Bash commands for Linux is assumed.

Logging in Java with the JDK 1.4 Logging API and Apache Log4j Nov 01 2020 Logging in Java with the JDK 1.4 Logging API and Apache log4j is the first book to discuss the two foremost logging APIs: JDK 1.4.0 logging API and Apache log4j 1.2.6 logging API for application developers. The internals of each API are examined, contrasted, and compared in exhaustive depth. Programmers will find a wealth of information simply not available elsewhere not even on the Internet. Each concept explained is accompanied by code example written in Java language. The book also provides guidelines for extending the existing logging frameworks to cater to application-specific needs. This is an essential handbook for logging-related information and techniques needed for developing applications in the Java language.

Tapestry 5 Aug 30 2020 This book is a practical step-by-step tutorial for those who want to build contemporary, real-life web applications with Tapestry 5, the Apache open-source framework for creating dynamic, robust, highly scalable web applications in Java. It shows the path of least resistance, so that the reader can learn all the essential skills quickly and easily. To give the reader an initial practical experience, a simple but useful web application is built throughout the chapters.

JavaScript Mobile Application Development Jul 10 2021 If you are a native mobile developer, with some familiarity with the common web technologies of JavaScript, CSS, and HTML, or if you are a web developer, then this learning guide will add great value and impact to your work. Learning how to develop mobile applications using Apache Cordova is of particular importance if you are looking to develop applications on a variety of different platforms efficiently.

Developing Web Applications with Apache, MySQL, memcached, and Perl Apr 30 2023 The only book to address using cache to enhance and speed up Web application development Developers use Apache, MySQL, memcached, and Perl to build dynamic Web sites that store information within the MySQL database; this is the only book to address using these technologies together to alleviate the database load in Web development Covers each of the four systems and shows how to install, set up, and administer them; then shows the reader how to put the parts together to start building applications Explains the benefits of a base perl library for code re-use, and provides sample applications that demonstrate in a practical way the information covered in the previous chapters Examines monitoring, performance, and security, with a problem-solving chapter that walks the reader through solving real-world issues

Apache Geronimo 2.1 Jan 22 2020 This book is a comprehensive reference of the Apache Geronimo Application Server with easy-to-understand examples and sample applications. Different configuration items are available as self contained chapters that can be looked up independently of the other chapters so that readers can go straight to whatever part of Geronimo they want to configure. The book is packed with tips and tricks, based on the author's experience with Apache Geronimo in real-life projects. This book is intended for Java EE developers and server administrators who would like to use Geronimo for developing and deploying fully fledged Java EE 5 applications

and freely distribute Geronimo with their solutions. Readers should be familiar with Java EE 5 concepts.

Apache Kafka Quick Start Guide Dec 23 2019 Process large volumes of data in real-time while building high performance and robust data stream processing pipeline using the latest Apache Kafka 2.0 Key Features Solve practical large data and processing challenges with Kafka Tackle data processing challenges like late events, windowing, and watermarking Understand real-time streaming applications processing using Schema registry, Kafka connect, Kafka streams, and KSQL Book Description Apache Kafka is a great open source platform for handling your real-time data pipeline to ensure high-speed filtering and pattern matching on the fly. In this book, you will learn how to use Apache Kafka for efficient processing of distributed applications and will get familiar with solving everyday problems in fast data and processing pipelines. This book focuses on programming rather than the configuration management of Kafka clusters or DevOps. It starts off with the installation and setting up the development environment, before quickly moving on to performing fundamental messaging operations such as validation and enrichment. Here you will learn about message composition with pure Kafka API and Kafka Streams. You will look into the transformation of messages in different formats, such as avro, binary, XML, JSON, and AVRO. Next, you will learn how to expose the schemas contained in Kafka with the Schema Registry. You will then learn how to work with all relevant connectors with Kafka Connect. While working with Kafka Streams, you will perform various interesting operations on streams, such as windowing, joins, and aggregations. Finally, through KSQL, you will learn how to retrieve, insert, modify, and delete data streams, and how to manipulate watermarks and windows. What you will learn How to validate data with Kafka Add information to existing data flows Generate new information through message composition Perform data validation and versioning with the Schema Registry How to perform message Serialization and Deserialization How to perform message Serialization and Deserialization Process data streams with Kafka Streams Understand the duality between tables and streams with KSQL Who this book is for This book is for developers who want to quickly master the practical concepts behind Apache Kafka. The audience need not have come across Apache Kafka previously; however, a familiarity of Java or any JVM language will be helpful in understanding the code in this book.

Learning Apache Thrift Feb 23 2020 Make applications cross-communicate using Apache Thrift! About This Book Leverage Apache Thrift to enable applications written in different programming languages (Java, C++, Python, PHP, Ruby, and so on) to cross-communicate. Learn to make your services ready for real-world applications by using stepwise examples and modifying code from Industry giants. Be a crackerjack at solving Apache Thrift-related issues. Who This Book Is For If you have some experience of developing applications in one or more languages supported by Apache Thrift (C++, Java, PHP, Python, Ruby, and others) and want to broaden your knowledge and skills in building cross-platform, scalable applications, then this book is for you. What You Will Learn Understand the need for cross-language services and the basics of Apache Thrift. Learn how Apache Thrift works and what problems it solves. Determine when to use Apache Thrift instead of other methods (REST API), and when not to use it. Create and run an example application using Apache Thrift. Use Apache Thrift in your applications written in different languages supported by Apache Thrift (PHP, Python, Ruby, Java, and C++). Handle exceptions and deal with errors. Modify code in different languages. Use Apache Thrift in the production environments of big applications. In Detail With modern software systems being increasingly complex, providing a scalable communication architecture for applications in different languages is tedious. The Apache Thrift framework is the solution to this problem! It helps build efficient and easy-to-maintain services and offers a plethora of options matching your application type by supporting several popular programming languages, including C++, Java, Python, PHP, Ruby, Erlang, Perl, Haskell, C#, Cocoa, JavaScript, Node.js, Smalltalk, OCaml, and Delphi. This book will help you set aside the basics of service-oriented systems through your first Apache Thrift-powered app. Then, progressing to more complex examples, it will provide you with tips for running large-scale applications in production environments. You will learn how to assess when Apache Thrift is the best tool to be used. To start with, you will run a simple example application, learning the framework's structure along the way; you will quickly advance to more complex systems that will help you solve various real-life problems. Moreover, you will be able to add a communication layer to every application written in one of the popular programming languages, with support for various data types and error handling. Further, you will learn how pre-eminent companies use Apache Thrift in their popular applications. This book is a great starting point if you want to use one of the best tools available to develop cross-language applications in service-oriented architectures. Style and approach A stepwise guide to learning Apache Thrift, with ready-to-run examples explained comprehensively. Advanced topics supply the inspiration for further work.

Learning Apache Apex Mar 06 2021 Designing and writing a real-time streaming publication with Apache Apex About This Book Get a clear, practical approach to real-time data processing Program Apache Apex streaming applications This book shows you Apex integration with the open source Big Data ecosystem Who This Book Is

For This book assumes knowledge of application development with Java and familiarity with distributed systems. Familiarity with other real-time streaming frameworks is not required, but some practical experience with other big data processing utilities might be helpful. What You Will Learn Put together a functioning Apex application from scratch Scale an Apex application and configure it for optimal performance Understand how to deal with failures via the fault tolerance features of the platform Use Apex via other frameworks such as Beam Understand the DevOps implications of deploying Apex In Detail Apache Apex is a next-generation stream processing framework designed to operate on data at large scale, with minimum latency, maximum reliability, and strict correctness guarantees. Half of the book consists of Apex applications, showing you key aspects of data processing pipelines such as connectors for sources and sinks, and common data transformations. The other half of the book is evenly split into explaining the Apex framework, and tuning, testing, and scaling Apex applications. Much of our economic world depends on growing streams of data, such as social media feeds, financial records, data from mobile devices, sensors and machines (the Internet of Things - IoT). The projects in the book show how to process such streams to gain valuable, timely, and actionable insights. Traditional use cases, such as ETL, that currently consume a significant chunk of data engineering resources are also covered. The final chapter shows you future possibilities emerging in the streaming space, and how Apache Apex can contribute to it. Style and approach This book is divided into two major parts: first it explains what Apex is, what its relevant parts are, and how to write well-built Apex applications. The second part is entirely application-driven, walking you through Apex applications of increasing complexity.

Accumulo Jun 08 2021 Get up to speed on Apache Accumulo, the flexible, high-performance key/value store created by the National Security Agency (NSA) and based on Google's BigTable data storage system. Written by former NSA team members, this comprehensive tutorial and reference covers Accumulo architecture, application development, table design, and cell-level security. With clear information on system administration, performance tuning, and best practices, this book is ideal for developers seeking to write Accumulo applications, administrators charged with installing and maintaining Accumulo, and other professionals interested in what Accumulo has to offer. You will find everything you need to use this system fully. Get a high-level introduction to Accumulo's architecture and data model Take a rapid tour through single- and multiple-node installations, data ingest, and query Learn how to write Accumulo applications for several use cases, based on examples Dive into Accumulo internals, including information not available in the documentation Get detailed information for installing, administering, tuning, and measuring performance Learn best practices based on successful implementations in the field Find answers to common questions that every new Accumulo user asks

Web Application Design and Implementation Feb 14 2022 Helps learn how to combine different technologies to create sophisticated, database-driven Web sites. This book allows readers to gain the programming knowledge needed to build a database-driven Web site using a step-by-step approach. It explains each stage of Web site development - from installation to production of the site.

Apache Cordova API Cookbook Feb 02 2021 Using Apache Cordova, mobile developers can write cross-platform mobile apps using standard HTML5, JavaScript, and CSS, and then deploy those apps to every leading mobile platform with little or no re-coding. Apache Cordova API Cookbook provides experienced mobile developers with details about how each Cordova API works and how to use the APIs in their own applications. Coverage is included for all Cordova/PhoneGap 3 APIs. Instead of just showing short snippets of code to explain a particular API, this guide is chock full of complete examples. You'll find more than thirty complete Cordova applications that work on Android, iOS, Windows, and more. The sample applications demonstrate exactly what each API does and how it works, while the chapter content describes the limitations on the leading target platforms (and even offers possible workarounds). Through realistic "cookbook" example code, mobile developer John Wargo helps you master the Cordova APIs and understand how to use them in your Cordova applications. Topics include Accelerometers, compass, and geolocation Image, video, and audio—capture, playback, and management Determining connection and device information Interacting with the Contacts application Responding to application events Accessing the device file system Globalizing apps Using the InAppBrowser Notifications Custom splash screens Special care has been taken to make the code easily readable and digestible by the reader. This guide provides the most accessible coverage, anywhere, of Apache Cordova APIs.

Apache MyFaces 1.2 Web Application Development Jan 16 2022

Apache Solr Jun 20 2022 Build an enterprise search engine using Apache Solr: index and search documents; ingest data from varied sources; apply various text processing techniques; utilize different search capabilities; and customize Solr to retrieve the desired results. Apache Solr: A Practical Approach to Enterprise Search explains each essential concept--backed by practical and industry examples--to help you attain expert-level knowledge. The book, which assumes a basic knowledge of Java, starts with an introduction to Solr, followed by steps to setting it

up, indexing your first set of documents, and searching them. It then introduces you to information retrieval and its implementation in Apache Solr; this will help you understand your search problem, decide the approach to build an effective solution, and use various metrics to evaluate the results. The book next covers the schema design and techniques to build a text analysis chain for cleansing, normalizing and enriching your documents and addressing different types of search queries. It describes various popular matching techniques which are generally applied to improve the precision and recall of searches. You will learn the end-to-end process of data ingestion from varied sources, metadata extraction, pre-processing and transformation of content, various search components, query parsers and other advanced search capabilities. After covering out-of-the-box features, Solr expert Dikshant Shahi dives into ways you can customize Solr for your business and its specific requirements, along with ways to plug in your own components. Most important, you will learn about implementations for Solr scoring, factors affecting the document score, and tuning the score for the application at hand. The book explains why textual scoring is not sufficient for practical ranking of documents and ways to integrate real-world factors for contributing to the document ranking. You'll see how to influence user experience by providing suggestions and recommendations. You'll also see integration of Solr with important related technologies such as OpenNLP and Tika. Additionally, you will learn about scaling Solr using SolrCloud. This book concludes with coverage of semantic search capabilities, which is crucial for taking the search experience to the next level. By the end of Apache Solr, you will be proficient in designing and developing your search engine.

[Pro Apache Log4j](#) May 08 2021 * Illustrates each concept with code samples in Java language; provides guidelines for different application-specific needs. * Describes the techniques to distribute the logging activity—critical to implement in an enterprise-wide logging framework. * The only Java Logging book on the market, and includes Best Practices guidelines.

[Apache Solr Enterprise Search Server - Third Edition](#) Apr 18 2022 This book is for developers who want to learn how to get the most out of Solr in their applications, whether you are new to the field, have used Solr but don't know everything, or simply want a good reference. It would be helpful to have some familiarity with basic programming concepts, but no prior experience is required.

[Apache Cordova 3 Programming](#) Oct 13 2021 Covers PhoneGap 3.X Written for experienced mobile developers, Apache Cordova 3 Programming is a complete introduction to Apache Cordova 3 and Adobe PhoneGap 3. It describes what makes Cordova important and shows how to install and use the tools, the new Cordova CLI, the native SDKs, and more. If you're brand new to Cordova, this book will be just what you need to get started. If you're familiar with an older version of Cordova, this book will show you in detail how to use all of the new stuff that's in Cordova 3 plus stuff that has been around for a while (like the Cordova core APIs). After walking you through the process of downloading and setting up the framework, mobile expert John M. Wargo shows you how to install and use the command line tools to manage the Cordova application lifecycle and how to set up and use development environments for several of the more popular Cordova supported mobile device platforms. Of special interest to new developers are the chapters on the anatomy of a Cordova application, as well as the mechanics of Cordova development. Wargo also covers the development process and the tools you can use to test and debug your Cordova applications, and provides a complete chapter that introduces the Cordova APIs, in addition to a chapter that shows you how to create your own plugins. Filled with lots of examples and code, the book includes complete coverage of Android, iOS, BlackBerry 1,0 and Windows Phone development for Cordova. Topics covered include How to install and use the Cordova CLI and associated tools How to configure the Android developer tools (ADT) to run, test, and debug your Cordova applications for Android How to use Xcode—Apple's development tool for iOS development—to run, test, and debug Cordova applications for iOS devices How to use the Safari browser to debug Cordova applications on iOS devices How to use the Microsoft development tools to run, test, and debug Cordova applications for Windows Phone 8 How to set up and use the PhoneGap Build service to package Cordova applications and share those applications with others How to create Cordova plugins for both Android and iOS The author maintains a web site for the book at cordovaprogramming.com where updates, errata, and the source code for the book are available.

[Apache Spark Quick Start Guide](#) Oct 25 2022 A practical guide for solving complex data processing challenges by applying the best optimizations techniques in Apache Spark. Key Features Learn about the core concepts and the latest developments in Apache Spark Master writing efficient big data applications with Spark's built-in modules for SQL, Streaming, Machine Learning and Graph analysis Get introduced to a variety of optimizations based on the actual experience Book Description Apache Spark is a flexible framework that allows processing of batch and real-time data. Its unified engine has made it quite popular for big data use cases. This book will help you to get started with Apache Spark 2.0 and write big data applications for a variety of use cases. It will also introduce you to Apache Spark – one of the most popular Big Data processing frameworks. Although this book is intended to help

you get started with Apache Spark, but it also focuses on explaining the core concepts. This practical guide provides a quick start to the Spark 2.0 architecture and its components. It teaches you how to set up Spark on your local machine. As we move ahead, you will be introduced to resilient distributed datasets (RDDs) and DataFrame APIs, and their corresponding transformations and actions. Then, we move on to the life cycle of a Spark application and learn about the techniques used to debug slow-running applications. You will also go through Spark's built-in modules for SQL, streaming, machine learning, and graph analysis. Finally, the book will lay out the best practices and optimization techniques that are key for writing efficient Spark applications. By the end of this book, you will have a sound fundamental understanding of the Apache Spark framework and you will be able to write and optimize Spark applications. What you will learn

Learn core concepts such as RDDs, DataFrames, transformations, and more
Set up a Spark development environment
Choose the right APIs for your applications
Understand Spark's architecture and the execution flow of a Spark application
Explore built-in modules for SQL, streaming, ML, and graph analysis
Optimize your Spark job for better performance
Who this book is for
If you are a big data enthusiast and love processing huge amount of data, this book is for you. If you are data engineer and looking for the best optimization techniques for your Spark applications, then you will find this book helpful. This book also helps data scientists who want to implement their machine learning algorithms in Spark. You need to have a basic understanding of any one of the programming languages such as Scala, Python or Java.

Mastering Tomcat Development Oct 01 2020 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

Real-Time Streaming with Apache Kafka, Spark, and Storm Mar 18 2022 Build a platform using Apache Kafka, Spark, and Storm to generate real-time data insights and view them through Dashboards. KEY FEATURES [?] Extensive practical demonstration of Apache Kafka concepts, including producer and consumer examples. [?] Includes graphical examples and explanations of implementing Kafka Producer and Kafka Consumer commands and methods. [?] Covers integration and implementation of Spark-Kafka and Kafka-Storm architectures. DESCRIPTION Real-Time Streaming with Apache Kafka, Spark, and Storm is a book that provides an overview of the real-time streaming concepts and architectures of Apache Kafka, Storm, and Spark. The readers will learn how to build systems that can process data streams in real time using these technologies. They will be able to process a large amount of real-time data and perform analytics or generate insights as a result of this. The architecture of Kafka and its various components are described in detail. A Kafka Cluster installation and configuration will be demonstrated. The Kafka publisher-subscriber system will be implemented in the Eclipse IDE using the Command Line and Java. The book discusses the architecture of Apache Storm, the concepts of Spout and Bolt, as well as their applications in a Transaction Alert System. It also describes Spark's core concepts, applications, and the use of Spark to implement a microservice. To learn about the process of integrating Kafka and Storm, two approaches to Spark and Kafka integration will be discussed. This book will assist a software engineer to transition to a Big Data engineer and Big Data architect by providing knowledge of big data processing and the architectures of Kafka, Storm, and Spark Streaming. WHAT YOU WILL LEARN [?] Creation of Kafka producers, consumers, and brokers using command line. [?] End-to-end implementation of Kafka messaging system with Java in Eclipse. [?] Perform installation and creation of a Storm Cluster and execute Storm Management commands. [?] Implement Spouts, Bolts and a Topology in Storm for Transaction alert application system. [?] Perform the implementation of a microservice using Spark in Scala IDE. [?] Learn about the various approaches of integrating Kafka and Spark. [?] Perform integration of Kafka and Storm using Java in the Eclipse IDE. WHO THIS BOOK IS FOR This book is intended for Software Developers, Data Scientists, and Big Data Architects who want to build software systems to process data streams in real time. To understand the concepts in this book, knowledge of any programming language such as Java, Python, etc. is needed. TABLE OF CONTENTS 1. Chapter Two: Installing Kafka 2.

Chapter Three: Kafka Messaging 3. Chapter Four: Kafka Producers 4. Chapter Five: Kafka Consumers 5. Chapter Six: Introduction to Storm 6. Chapter Seven: Installation and Configuration 7. Chapter Eight: Spouts and Bolts 8. Chapter Nine: Introduction to Spark 9. Chapter Ten: Spark Streaming 10. Chapter Eleven: Kafka Integration with Storm 11. Chapter Twelve: Kafka Integration with Spark

Apache Cordova 4 Programming Jan 04 2021 Using Apache Cordova 4, you can leverage native technologies and web standards to quickly build cross-platform apps for most mobile devices. You can deliver a high-end user experience where it matters, while radically simplifying code maintenance and reuse. *Apache Cordova 4 Programming* is the most concise, accessible introduction to this remarkable technology. In this essential guide, expert mobile developer John Wargo quickly gets you up to speed with all the essentials, from installation, configuration, and tools, to building plugins and using Cordova's powerful APIs. Wargo helps you make the most of Cordova 4's major enhancements, while offering practical guidance for all versions, including Adobe PhoneGap. Full chapters are dedicated to five major mobile platforms: Android, iOS, Windows Phone, Firefox OS, and Ubuntu. Using rich, relevant examples, Wargo guides you through both the anatomy of a Cordova app and its entire lifecycle, including cross-platform testing and debugging. Throughout, he illuminates Cordova development best practices, streamlining your development process and helping you write high-quality apps right from the start. Topics include Installing and configuring Cordova's development environment Working with the Cordova command line interfaces Creating Cordova plugins, using Plugman and the PhoneGap CLI Cordova's support for Firefox OS and Ubuntu devices Automation (Grunt and Gulp) and Cordova CLI hooks Microsoft's hybrid toolkit for Visual Studio Third-party tools, such as AppGyver, GapDebug, THyM, and more Beautifying Cordova apps with third-party HTML frameworks, such as Bootstrap, OpenUI5, Ionic, and Onsen UI Running, testing, and debugging Cordova apps on each major mobile platform Access the full code examples at cordova4programming.com, where you'll also find updates reflecting Cordova's continuing evolution. This book is an ideal companion to Wargo's authoritative collection of Apache Cordova code recipes for each Cordova API, *Apache Cordova API Cookbook* (Addison-Wesley, 2015).

Cocoon Sep 23 2022 CD-ROM contains: Cocoon software -- Web resources -- Source code.

Modernize Applications with Apache Kafka Aug 23 2022 Application modernization has become increasingly important as older systems struggle to keep up with today's requirements. When you migrate legacy monolithic applications to microservices, easier maintenance and optimized resource utilization generally follow. But new challenges arise around communication within services and between applications. You can overcome many of these issues with the help of modern messaging technologies such as Apache Kafka. In this report, Jennifer Vargas and Richard Stroop from Red Hat explain how IT leaders and enterprise architects can use Kafka for microservices communication and then off-load operational needs through the use of Kubernetes and managed services. You'll also explore application modernization techniques that don't require you to break down your monolithic application.

Practical Apache Lucene 8 Apr 06 2021 Gain a thorough knowledge of Lucene's capabilities and use it to develop your own search applications. This book explores the Java-based, high-performance text search engine library used to build search capabilities in your applications. Starting with the basics of Lucene and searching, you will learn about the types of queries used in it and also take a look at scoring models. Applying this basic knowledge, you will develop a hello world app using basic Lucene queries and explore functions like scoring and document level boosting. Along the way you will also uncover the concepts of partial searching and matching in Lucene and then learn how to integrate geographical information (geospatial data) in Lucene using spatial queries and n-dimensional indexing. This will prepare you to build a location-aware search engine with a representative data set that allows location constraints to be specified during a search. You'll also develop a text classifier using Lucene and Apache Mahout, a popular machine learning framework. After a detailed review of performance bench-marking and common issues associated with it, you'll learn some of the best practices of tuning the performance of your application. By the end of the book you'll be able to build your first Lucene patch, where you will not only write your patch, but also test it and ensure it adheres to community coding standards. What You'll Learn Master the basics of Apache Lucene Utilize different query types in Apache Lucene Explore scoring and document level boosting Integrate geospatial data into your application Who This Book Is For Developers wanting to learn the finer details of Apache Lucene by developing a series of projects with it.

Stream Processing with Apache Flink Jul 30 2020 Get started with Apache Flink, the open source framework that powers some of the world's largest stream processing applications. With this practical book, you'll explore the fundamental concepts of parallel stream processing and discover how this technology differs from traditional batch data processing. Longtime Apache Flink committers Fabian Hueske and Vasia Kalavri show you how to implement scalable streaming applications with Flink's `DataStream` API and continuously run and maintain these applications

in operational environments. Stream processing is ideal for many use cases, including low-latency ETL, streaming analytics, and real-time dashboards as well as fraud detection, anomaly detection, and alerting. You can process continuous data of any kind, including user interactions, financial transactions, and IoT data, as soon as you generate them. Learn concepts and challenges of distributed stateful stream processing Explore Flink's system architecture, including its event-time processing mode and fault-tolerance model Understand the fundamentals and building blocks of the DataStream API, including its time-based and stateful operators Read data from and write data to external systems with exactly-once consistency Deploy and configure Flink clusters Operate continuously running streaming applications

Pro Apache JMeter Jul 22 2022 Quickly ramp up your practical knowledge of Apache JMeter for software performance testing and focus on actual business problems. This step-by-step guide covers what you will need to know to write and execute test scripts, and verify the results. *Pro Apache JMeter* covers almost every aspect of Apache JMeter in detail and includes helpful screenshots and a case study. A performance primer chapter provides a high-level summary of terms used in performance testing on a day-to-day basis that also is useful for non-technical readers. A sample web application Digital Toys has been developed and test scripts are provided for you to try while progressing through the chapters. What You'll Learn Create and execute an Apache JMeter test plan Interpret the results of your test plan Understand distributed testing using Apache JMeter Use Apache JMeter advanced features such as JDBC, REST, FTP, AJAX, SOAP, and mobile performance testing Read a sample case study covering end-to-end planning and execution of a performance testing project Generate and analyze a performance dashboard Who This Book Is For Software performance testing professionals, quality assurance professionals, architects, engineers, project managers, product managers

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- [The Apache Modules Book](#)
- [Building Data Streaming Applications With Apache Kafka](#)
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- [Apache Spark Quick Start Guide](#)
- [Cocoon](#)
- [Modernize Applications With Apache Kafka](#)
- [Pro Apache JMeter](#)
- [Apache Solr](#)
- [Apache Struts 2 Web Application Development](#)
- [Apache Solr Enterprise Search Server Third Edition](#)
- [Real Time Streaming With Apache Kafka Spark And Storm](#)
- [Web Application Design And Implementation](#)
- [Apache MyFaces 12 Web Application Development](#)
- [Developing Spark Applications With Python](#)
- [Heron Streaming](#)
- [Apache Cordova 3 Programming](#)
- [Pro Apache Struts With Ajax](#)
- [Apache Maven 2 Effective Implementation](#)
- [JavaScript Mobile Application Development](#)
- [Accumulo](#)
- [Pro Apache Log4j](#)
- [Practical Apache Lucene 8](#)
- [Learning Apache Apex](#)
- [Apache Cordova API Cookbook](#)
- [Apache Cordova 4 Programming](#)

- [Web Application Design And Implementation](#)
- [Logging In Java With The JDK 14 Logging API And Apache Log4j](#)
- [Mastering Tomcat Development](#)
- [Tapestry 5](#)
- [Stream Processing With Apache Flink](#)
- [Apache Cordova In Action](#)
- [Hadoop Application Architectures](#)
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- [Learning Apache Karaf](#)
- [Learning Apache Thrift](#)
- [Apache Geronimo 21](#)
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