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Learning Apache Kafka

Second Edition

Start from scratch and learn how to administer Apache Kafka effectively for messaging

Nishant Garg

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Learning Apache Kafka Second Edition Garg Nishant

**Mrutyunjaya Panda,Ajith
Abraham,Aboul Ella Hassanien**



Learning Apache Kafka Second Edition Garg Nishant:

Learning Apache Kafka Second Edition Nishant Garg, 2015-02-26 This book is for readers who want to know more about Apache Kafka at a hands on level the key audience is those with software development experience but no prior exposure to Apache Kafka or similar technologies It is also useful for enterprise application developers and big data enthusiasts who have worked with other publisher subscriber based systems and want to explore Apache Kafka as a futuristic solution

Cloud Native Applications with Ballerina Dhanushka Madushan, 2021-10-29 Learn how to build scalable cloud native applications with the new generation Ballerina language using expert tips and best practices Key Features Work with code samples based on the Ballerina Swan Lake Beta1 version Explore the in built networking protocol support in Ballerina to develop secure distributed apps Build a Ballerina app with an automated CI CD pipeline with observability to simplify maintenance and deployment Book Description The Ballerina programming language was created by WSO2 for the modern needs of developers where cloud native development techniques have become ubiquitous Ballerina simplifies how programmers develop and deploy cloud native distributed apps and microservices Cloud Native Applications with Ballerina will guide you through Ballerina essentials including variables types functions flow control security and more You ll explore networking as an in built feature in Ballerina which makes it a first class language for distributed computing With this app development book you ll learn about different networking protocols as well as different architectural patterns that you can use to implement services on the cloud As you advance you ll explore multiple design patterns used in microservice architecture and use serverless in Amazon Web Services AWS and Microsoft Azure platforms You will also get to grips with Docker Kubernetes and serverless platforms to simplify maintenance and the deployment process Later you ll focus on the Ballerina testing framework along with deployment tools and monitoring tools to build fully automated observable cloud applications By the end of this book you will have learned how to apply the Ballerina language for building scalable resilient secured and easy to maintain cloud native Ballerina projects and applications What you will learn Understand the concepts and models in cloud native architecture Get to grips with the high level concepts of building applications with the Ballerina language Use cloud native architectural design patterns to develop cloud native Ballerina applications Discover how to automate maintain and observe cloud native Ballerina applications Use a container to deploy and maintain a Ballerina application with Docker and Kubernetes Explore serverless architecture and use Microsoft Azure and the AWS platform to build serverless applications Who this book is for This Ballerina Swan Lake book is for cloud developers integration developers and microservices developers who are facing challenges with legacy tooling and are looking for the latest tools and technologies to solve them Beginner level programming knowledge is required before getting started with this Ballerina book

Apache Flume: Distributed Log Collection for Hadoop - Second Edition Steve Hoffman, 2015-02-25 If you are a Hadoop programmer who wants to learn about Flume to be able to move datasets into Hadoop in a timely and replicable

manner then this book is ideal for you No prior knowledge about Apache Flume is necessary but a basic knowledge of Hadoop and the Hadoop File System HDFS is assumed

Big Data Analytics Mrutyunjaya Panda,Ajith Abraham,Aboul Ella Hassanien,2018-12-12 Social networking has increased drastically in recent years resulting in an increased amount of data being created daily Furthermore diversity of issues and complexity of the social networks pose a challenge in social network mining Traditional algorithm software cannot deal with such complex and vast amounts of data necessitating the development of novel analytic approaches and tools This reference work deals with social network aspects of big data analytics It covers theory practices and challenges in social networking The book spans numerous disciplines like neural networking deep learning artificial intelligence visualization e learning in higher education e healthcare security and intrusion detection

Apache Kafka Nishant Garg,2013 Apache Kafka Nishant Garg,2013 Chapter 7 Kafka Integrations Kafka integration with Storm Introduction to Storm Integrating Storm Kafka integration with Hadoop Introduction to Hadoop Integrating Hadoop Hadoop producer Hadoop consumer Summary Chapter 8 Kafka Tools Kafka administration tools Kafka topic tools Kafka replication tools Integration with other tools Kafka performance testing Summary Index

Apache Kafka Quick Start Guide Raul Estrada,2018-12-27 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 y 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 asex 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 ows 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

Kafka Streams in Action, Second Edition Bill Bejeck, 2024-06-11 Everything you need to implement stream processing on Apache Kafka using Kafka Streams and the ksqldb event streaming database Kafka Streams in Action Second Edition guides you through setting up and maintaining your streaming processing with Kafka Inside you ll find comprehensive coverage of not only Kafka Streams but the entire toolbox you ll need for effective streaming from the components of the Kafka ecosystem to Producer and Consumer clients Connect and Schema Registry In Kafka Streams in Action Second Edition you ll learn how to Design streaming applications in Kafka Streams with the KStream and the Processor API Integrate external systems with Kafka Connect Enforce data compatibility with Schema Registry Build applications that respond immediately to events in either Kafka Streams or ksqldb Craft materialized views over streams with ksqldb This totally revised new edition of Kafka Streams in Action has been expanded to cover more of the Kafka platform used for building event based applications You ll also find full coverage of ksqldb an event streaming database that makes it a snap to create applications that respond immediately to events such as real time push and pull updates Foreword by Jun Rao About the technology Enterprise applications need to handle thousands even millions of data events every day With an intuitive API and flawless reliability the lightweight Kafka Streams library has earned a spot at the center of these systems Kafka Streams provides exactly the power and simplicity you need to manage real time event processing or microservices messaging About the book Kafka Streams in Action Second Edition teaches you how to create event streaming applications on the amazing Apache Kafka platform This thoroughly revised new edition now covers a wider range of streaming architectures and includes data integration with Kafka Connect As you go you ll explore real world examples that introduce components and brokers schema management and the other essentials Along the way you ll pick up practical techniques for blending Kafka with Spring low level control of processors and state stores storing event data with ksqldb and testing streaming applications What s inside Design efficient streaming applications Integrate external systems with Kafka Connect Enforce data compatibility with Schema Registry About the reader For Java developers No knowledge of Kafka or streaming applications required About the author Bill Bejeck is a Confluent engineer and a Kafka Streams contributor with over 15 years of software development experience Bill is also a committer on the Apache Kafka project Table of Contents PART 1 1 Welcome to the Kafka event streaming platform 2 Kafka brokers PART 2 3 Schema Registry 4 Kafka clients 5 Kafka Connect PART 3 6 Developing Kafka Streams 7 Streams and state 8 The KTable API 9 Windowing and timestamps 10 The Processor API 11 ksqldb 12 Spring kafka 13 Kafka Streams Interactive Queries 14 Testing

Apache Spark Fundamentals Nishant Garg, 2017 This video is a comprehensive tutorial to help you learn all the aspects of real time analytics with Apache Spark one of the trending big data processing frameworks

on the market today We will show you how to leverage the various components of the Spark framework to efficiently process analyze and visualize data You will learn how to use SparkSQL and DataFrames API for structured data processing You will also see how to build efficient machine learning models using the Spark MLlib module We ll show you how to analyze and process graphs and streams of data in real time using the GraphX and Spark Streaming modules Finally you ll discover how to create an effective Spark dashboard to visualize the data analysis and gain insights to make informed business decisions By the end of this video you will be well versed with all the aspects of real time analytics and implementing them in Spark

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