



Apache Spark And Apache Kafka At The Rescue Of Distributed

Deepak Puthal, Saraju Mohanty, Baek-Young Choi

Apache Spark And Apache Kafka At The Rescue Of Distributed:

Practical Real-time Data Processing and Analytics Shilpi Saxena,Saurabh Gupta,2017-09-28 A practical guide to help you tackle different real time data processing and analytics problems using the best tools for each scenario About This Book Learn about the various challenges in real time data processing and use the right tools to overcome them This book covers popular tools and frameworks such as Spark Flink and Apache Storm to solve all your distributed processing problems A practical guide filled with examples tips and tricks to help you perform efficient Big Data processing in real time Who This Book Is For If you are a Java developer who would like to be equipped with all the tools required to devise an end to end practical solution on real time data streaming then this book is for you Basic knowledge of real time processing would be helpful and knowing the fundamentals of Maven Shell and Eclipse would be great What You Will Learn Get an introduction to the established real time stack Understand the key integration of all the components Get a thorough understanding of the basic building blocks for real time solution designing Garnish the search and visualization aspects for your real time solution Get conceptually and practically acquainted with real time analytics Be well equipped to apply the knowledge and create your own solutions In Detail With the rise of Big Data there is an increasing need to process large amounts of data continuously with a shorter turnaround time Real time data processing involves continuous input processing and output of data with the condition that the time required for processing is as short as possible This book covers the majority of the existing and evolving open source technology stack for real time processing and analytics You will get to know about all the real time solution aspects from the source to the presentation to persistence Through this practical book you ll be equipped with a clear understanding of how to solve challenges on your own We ll cover topics such as how to set up components basic executions integrations advanced use cases alerts and monitoring You ll be exposed to the popular tools used in real time processing today such as Apache Spark Apache Flink and Storm Finally you will put your knowledge to practical use by implementing all of the techniques in the form of a practical real world use case By the end of this book you will have a solid understanding of all the aspects of real time data processing and analytics and will know how to deploy the solutions in production environments in the best possible manner Style and Approach In this practical guide to real time analytics each chapter begins with a basic high level concept of the topic followed by a practical hands on implementation of each concept where you can see the working and execution of it The book is written in a DIY style with plenty of practical use cases well explained code examples and relevant screenshots and diagrams

Internet of Things. Advances in Information and Communication Technology Deepak Puthal,Saraju Mohanty,Baek-Young Choi,2023-10-25 This book constitutes the refereed post conference proceedings of the 6th IFIP International Cross Domain Conference on Internet of Things IFIPIoT 2023 held in Denton TX USA in November 2023 The 36 full papers and 27 short papers presented were carefully reviewed and selected from 84 submissions The papers offer insights into the latest innovations challenges and opportunities in IoT

covering a wide array of topics including IoT architectures security and privacy data analytics edge computing and applications in various domains

High-Performance Modelling and Simulation for Big Data Applications Joanna Kołodziej, Horacio González-Vélez, 2019-03-25 This open access book was prepared as a Final Publication of the COST Action IC1406 High Performance Modelling and Simulation for Big Data Applications cHiPSet project Long considered important pillars of the scientific method Modelling and Simulation have evolved from traditional discrete numerical methods to complex data intensive continuous analytical optimisations Resolution scale and accuracy have become essential to predict and analyse natural and complex systems in science and engineering When their level of abstraction raises to have a better discernment of the domain at hand their representation gets increasingly demanding for computational and data resources On the other hand High Performance Computing typically entails the effective use of parallel and distributed processing units coupled with efficient storage communication and visualisation systems to underpin complex data intensive applications in distinct scientific and technical domains It is then arguably required to have a seamless interaction of High Performance Computing with Modelling and Simulation in order to store compute analyse and visualise large data sets in science and engineering Funded by the European Commission cHiPSet has provided a dynamic trans European forum for their members and distinguished guests to openly discuss novel perspectives and topics of interests for these two communities This cHiPSet compendium presents a set of selected case studies related to healthcare biological data computational advertising multimedia finance bioinformatics and telecommunications

Mastering the Data Paradox Nitin Seth, 2024-03-18 There are two remarkable phenomena that are unfolding almost simultaneously The first is the emergence of a data first world where data has become a central driving force shaping industries and fueling innovation The second is the dawn of the AI age propelled by the advent of Generative AI that has created the possibility to leverage the data of the world for the first time The convergence of these two with data as the common denominator holds immense promise and the opportunities are boundless This book provides us with opportunities to push our thinking to innovate to transform and to create a better future at all levels individual enterprise and the world

Real-Time Streaming with Apache Kafka, Spark, and Storm Brindha Priyadarshini Jeyaraman, 2021-08-20 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

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Big Data SMACK Raul Estrada, Isaac Ruiz, 2016-09-29 Learn how to integrate full stack open source big data architecture and to choose the correct technology Scala Spark Mesos Akka Cassandra and Kafka in every layer Big data architecture is becoming a requirement for many different enterprises So far however the focus has largely been on collecting aggregating and crunching large data sets in a timely manner In many cases now organizations need more than one paradigm to perform efficient analyses Big Data SMACK explains each of the full stack technologies and more importantly how to best integrate them It provides detailed coverage of the practical benefits of these technologies and incorporates real world examples in every situation This book focuses on the problems and scenarios solved by the architecture as well as the solutions provided by every technology It covers the six main concepts of big data architecture and how integrate replace and reinforce every layer The language Scala The engine Spark SQL MLib Streaming GraphX The container Mesos Docker The view Akka The storage Cassandra The message broker Kafka What You Will Learn Make big data architecture without using complex Greek letter architectures Build a cheap but effective cluster infrastructure Make queries reports and graphs that business demands Manage and exploit unstructured and No SQL data sources Use tools to monitor the performance of your architecture Integrate all technologies and decide which ones replace and which ones reinforce Who This Book Is For Developers data architects and data scientists looking to integrate the most successful big

data open stack architecture and to choose the correct technology in every layer

Stream Processing with Apache Spark Gerard Maas, Francois Garillot, 2019-06-05 Before you can build analytics tools to gain quick insights you first need to know how to process data in real time With this practical guide developers familiar with Apache Spark will learn how to put this in memory framework to use for streaming data You ll discover how Spark enables you to write streaming jobs in almost the same way you write batch jobs Authors Gerard Maas and Fran ois Garillot help you explore the theoretical underpinnings of Apache Spark This comprehensive guide features two sections that compare and contrast the streaming APIs Spark now supports the original Spark Streaming library and the newer Structured Streaming API Learn fundamental stream processing concepts and examine different streaming architectures Explore Structured Streaming through practical examples learn different aspects of stream processing in detail Create and operate streaming jobs and applications with Spark Streaming integrate Spark Streaming with other Spark APIs Learn advanced Spark Streaming techniques including approximation algorithms and machine learning algorithms Compare Apache Spark to other stream processing projects including Apache Storm Apache Flink and Apache Kafka Streams

Basics Of Apache Kafka Maryann Kisamore, 2021-08-16 Apache Kafka is an open source distributed event streaming platform used by thousands of companies for high performance data pipelines streaming analytics data integration and mission critical applications More precisely you will learn The basics of big data including the place of such concepts like Spark Zookeeper the Kafka framework and how they all relate An insider look into Kafka framework and Kafka use cases to help you understand real world applications inside out The inner workings of Apache Kafka including Zookeeper watches Zookeeper s role in cluster membership the responsibilities and election of the controller broker replication partition and the bootstrap server How to code producer configurations and consumer groups The ins and outs of Kafka data delivery including delivery semantics and service goals How to master Kafka administrative functions including dynamic configurations handling partitions consumer group tools and more And so much more

Beginning Apache Spark 2 Hien Luu, 2018 Develop applications for the big data landscape with Spark and Hadoop This book also explains the role of Spark in developing scalable machine learning and analytics applications with Cloud technologies Beginning Apache Spark 2 gives you an introduction to Apache Spark and shows you how to work with it Along the way you ll discover resilient distributed datasets RDDs use Spark SQL for structured data and learn stream processing and build real time applications with Spark Structured Streaming Furthermore you ll learn the fundamentals of Spark ML for machine learning and much more After you read this book you will have the fundamentals to become proficient in using Apache Spark and know when and how to apply it to your big data applications

Streaming Architecture Ted Dunning, Ellen Friedman, 2016-05-10 More and more data driven companies are looking to adopt stream processing and streaming analytics With this concise ebook you ll learn best practices for designing a reliable architecture that supports this emerging big data paradigm Authors Ted Dunning and Ellen Friedman Real World Hadoop help you explore some of the best

technologies to handle stream processing and analytics with a focus on the upstream queuing or message passing layer To illustrate the effectiveness of these technologies this book also includes specific use cases Ideal for developers and non technical people alike this book describes Key elements in good design for streaming analytics focusing on the essential characteristics of the messaging layer New messaging technologies including Apache Kafka and MapR Streams with links to sample code Technology choices for streaming analytics Apache Spark Streaming Apache Flink Apache Storm and Apache Apex How stream based architectures are helpful to support microservices Specific use cases such as fraud detection and geo distributed data streams Ted Dunning is Chief Applications Architect at MapR Technologies and active in the open source community He currently serves as VP for Incubator at the Apache Foundation as a champion and mentor for a large number of projects and as committer and PMC member of the Apache ZooKeeper and Drill projects Ted is on Twitter as ted_dunning Ellen Friedman a committer for the Apache Drill and Apache Mahout projects is a solutions consultant and well known speaker and author currently writing mainly about big data topics With a PhD in Biochemistry she has years of experience as a research scientist and has written about a variety of technical topics Ellen is on Twitter as Ellen_Friedman

Big Data Processing Using Spark in Cloud Mamta Mittal,Valentina E. Balas,Lalit Mohan Goyal,Raghvendra Kumar,2018-06-16 The book describes the emergence of big data technologies and the role of Spark in the entire big data stack It compares Spark and Hadoop and identifies the shortcomings of Hadoop that have been overcome by Spark The book mainly focuses on the in depth architecture of Spark and our understanding of Spark RDDs and how RDD complements big data s immutable nature and solves it with lazy evaluation cacheable and type inference It also addresses advanced topics in Spark starting with the basics of Scala and the core Spark framework and exploring Spark data frames machine learning using Mlib graph analytics using Graph X and real time processing with Apache Kafka AWS Kinesis and Azure Event Hub It then goes on to investigate Spark using PySpark and R Focusing on the current big data stack the book examines the interaction with current big data tools with Spark being the core processing layer for all types of data The book is intended for data engineers and scientists working on massive datasets and big data technologies in the cloud In addition to industry professionals it is helpful for aspiring data processing professionals and students working in big data processing and cloud computing environments Big Data Analytics Venkat Ankam,2016-09-28 A handy reference guide for data analysts and data scientists to help to obtain value from big data analytics using Spark on Hadoop clusters About This Book This book is based on the latest 2.0 version of Apache Spark and 2.7 version of Hadoop integrated with most commonly used tools Learn all Spark stack components including latest topics such as DataFrames DataSets GraphFrames Structured Streaming DataFrame based ML Pipelines and SparkR Integrations with frameworks such as HDFS YARN and tools such as Jupyter Zeppelin NiFi Mahout HBase Spark Connector GraphFrames H2O and Hivemall Who This Book Is For Though this book is primarily aimed at data analysts and data scientists it will also help architects programmers and practitioners Knowledge of

either Spark or Hadoop would be beneficial It is assumed that you have basic programming background in Scala Python SQL or R programming with basic Linux experience Working experience within big data environments is not mandatory What You Will Learn Find out and implement the tools and techniques of big data analytics using Spark on Hadoop clusters with wide variety of tools used with Spark and Hadoop Understand all the Hadoop and Spark ecosystem components Get to know all the Spark components Spark Core Spark SQL DataFrames DataSets Conventional and Structured Streaming MLLib ML Pipelines and Graphx See batch and real time data analytics using Spark Core Spark SQL and Conventional and Structured Streaming Get to grips with data science and machine learning using MLLib ML Pipelines H2O Hivemall Graphx SparkR and Hivemall In Detail Big Data Analytics book aims at providing the fundamentals of Apache Spark and Hadoop All Spark components Spark Core Spark SQL DataFrames Data sets Conventional Streaming Structured Streaming Mllib Graphx and Hadoop core components HDFS MapReduce and Yarn are explored in greater depth with implementation examples on Spark Hadoop clusters It is moving away from MapReduce to Spark So advantages of Spark over MapReduce are explained at great depth to reap benefits of in memory speeds DataFrames API Data Sources API and new Data set API are explained for building Big Data analytical applications Real time data analytics using Spark Streaming with Apache Kafka and HBase is covered to help building streaming applications New Structured streaming concept is explained with an IOT Internet of Things use case Machine learning techniques are covered using MLLib ML Pipelines and SparkR and Graph Analytics are covered with GraphX and GraphFrames components of Spark Readers will also get an opportunity to get started with web based notebooks such as Jupyter Apache Zeppelin and data flow tool Apache NiFi to analyze and visualize data Style and approach This step by step pragmatic guide will make life easy no matter what your level of experience You will deep dive into Apache Spark on Hadoop clusters through ample exciting real life examples Practical tutorial explains data science in simple terms to help programmers and data analysts get started with Data Science [Kafka for Distributed Systems](#) Richard Johnson,2025-05-31 Kafka for Distributed Systems Kafka for Distributed Systems is a comprehensive and authoritative guide for architects engineers and technical leaders seeking to leverage Apache Kafka s full potential in modern distributed environments Through a methodical exploration of foundational concepts the book elucidates the key requirements and inherent challenges of distributed systems positioning Kafka as an architectural cornerstone for messaging event streaming and robust system integration With clear explanations and context readers learn how Kafka s unique log abstraction partitioning and consumer group models enable scalable resilient and high performance event driven architectures Structured to provide both breadth and depth each chapter delves into essential aspects of deploying maintaining and optimizing Kafka in production settings Readers gain actionable insights into Kafka s internal architecture including brokers topics leaders and replication as well as hands on guidance for implementing reliable producers and consumers stateful stream processing applications and transactional messaging with exactly once guarantees Advanced

topics such as security and compliance operational automation multi cluster topologies and disaster recovery are addressed with practical strategies and best practices for high availability cost efficiency and regulatory governance Looking ahead the book surveys cutting edge patterns and emerging trends shaping the future of Kafka in distributed systems from hybrid cloud and edge computing to streaming analytics AI integration and serverless platforms Whether planning a greenfield deployment or scaling a critical enterprise workload Kafka for Distributed Systems equips professionals with the technical mastery to design secure and evolve resilient data pipelines and responsive architectures that meet the demands of today's digital enterprise

Stream Processing with Apache Spark Gerard Maas, Francois Garillot, 2019 To build analytics tools that provide faster insights knowing how to process data in real time is a must and moving from batch processing to stream processing is absolutely required Fortunately the Spark in memory framework platform for processing data has added an extension devoted to fault tolerant stream processing Spark Streaming If you're familiar with Apache Spark and want to learn how to implement it for streaming jobs this practical book is a must Understand how Spark Streaming fits in the big picture Learn core concepts such as Spark RDDs Spark Streaming clusters and the fundamentals of a DStream Discover how to create a robust deployment Dive into streaming algorithmics Learn how to tune measure and monitor Spark Streaming With Early Release ebooks you get books in their earliest form the author's raw and unedited content as he or she writes so you can take advantage of these technologies long before the official release of these titles

Apache Kafka 1.0 Cookbook Raúl Estrada, 2017-12-21 Simplify real time data processing by leveraging the power of Apache Kafka 1.0 Key Features Use Kafka 1.0 features such as Confluent platforms and Kafka streams to build efficient streaming data applications to handle and process your data Integrate Kafka with other Big Data tools such as Apache Hadoop Apache Spark and more Hands on recipes to help you design operate maintain and secure your Apache Kafka cluster with ease Book Description Apache Kafka provides a unified high throughput low latency platform to handle real time data feeds This book will show you how to use Kafka efficiently and contains practical solutions to the common problems that developers and administrators usually face while working with it This practical guide contains easy to follow recipes to help you set up configure and use Apache Kafka in the best possible manner You will use Apache Kafka Consumers and Producers to build effective real time streaming applications The book covers the recently released Kafka version 1.0 the Confluent Platform and Kafka Streams The programming aspect covered in the book will teach you how to perform important tasks such as message validation enrichment and composition Recipes focusing on optimizing the performance of your Kafka cluster and integrate Kafka with a variety of third party tools such as Apache Hadoop Apache Spark and Elasticsearch will help ease your day to day collaboration with Kafka greatly Finally we cover tasks related to monitoring and securing your Apache Kafka cluster using tools such as Ganglia and Graphite If you're looking to become the go to person in your organization when it comes to working with Apache Kafka this book is the only resource you need to have What you will learn Install and configure Apache

Kafka 1.0 to get optimal performance Create and configure Kafka Producers and Consumers Operate your Kafka clusters efficiently by implementing the mirroring technique Work with the new Confluent platform and Kafka streams and achieve high availability with Kafka Monitor Kafka using tools such as Graphite and Ganglia Integrate Kafka with third party tools such as Elasticsearch Logstash Apache Hadoop Apache Spark and more Who this book is for This book is for developers and Kafka administrators who are looking for quick practical solutions to problems encountered while operating managing or monitoring Apache Kafka If you are a developer some knowledge of Scala or Java will help while for administrators some working knowledge of Kafka will be useful

Apache Kafka Quick Start Guide Raúl 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 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 text 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

Building Data Streaming Applications with Apache Kafka Manish Kumar, Chanchal Singh, 2017-08-18 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

Stream Processing with Apache Spark Gerard Maas, Francois Garillo, 2020

[Apache Spark 2.X Cookbook](#) Rishi Yadav, 2017-05-31 Over 70 recipes to help you use Apache Spark as your single big data computing platform and master its libraries About This Book This book contains recipes on how to use Apache Spark as a unified compute engine Cover how to connect various source systems to Apache Spark Covers various parts of machine learning including supervised unsupervised learning recommendation engines Who This Book Is For This book is for data engineers data scientists and those who want to implement Spark for real time data processing Anyone who is using Spark or is planning to will benefit from this book The book assumes you have a basic knowledge of Scala as a programming language What You Will Learn Install and configure Apache Spark with various cluster managers on AWS Set up a development environment for Apache Spark including Databricks Cloud notebook Find out how to operate on data in Spark with schemas Get to grips with real time streaming analytics using Spark Streaming Structured Streaming Master supervised learning and unsupervised learning using MLlib Build a recommendation engine using MLlib Graph processing using GraphX and GraphFrames libraries Develop a set of common applications or project types and solutions that solve complex big data problems In Detail While Apache Spark 1.x gained a lot of traction and adoption in the early years

Spark 2 x delivers notable improvements in the areas of API schema awareness Performance Structured Streaming and simplifying building blocks to build better faster smarter and more accessible big data applications This book uncovers all these features in the form of structured recipes to analyze and mature large and complex sets of data Starting with installing and configuring Apache Spark with various cluster managers you will learn to set up development environments Further on you will be introduced to working with RDDs DataFrames and Datasets to operate on schema aware data and real time streaming with various sources such as Twitter Stream and Apache Kafka You will also work through recipes on machine learning including supervised learning unsupervised learning recommendation engines in Spark Last but not least the final few chapters delve deeper into the concepts of graph processing using GraphX securing your implementations cluster optimization and troubleshooting Style and approach This book is packed with intuitive recipes supported with line by line explanations to help you understand Spark 2 x s real time processing capabilities and deploy scalable big data solutions This is a valuable resource for data scientists and those working on large scale data projects

Kafka: The Definitive Guide
Gwen Shapira, Todd Palino, Rajini Sivaram, Krit Petty, 2021-11-05

Every enterprise application creates data whether it consists of log messages metrics user activity or outgoing messages Moving all this data is just as important as the data itself With this updated edition application architects developers and production engineers new to the Kafka streaming platform will learn how to handle data in motion Additional chapters cover Kafka s AdminClient API transactions new security features and tooling changes Engineers from Confluent and LinkedIn responsible for developing Kafka explain how to deploy production Kafka clusters write reliable event driven microservices and build scalable stream processing applications with this platform Through detailed examples you ll learn Kafka s design principles reliability guarantees key APIs and architecture details including the replication protocol the controller and the storage layer You ll examine Best practices for deploying and configuring Kafka Kafka producers and consumers for writing and reading messages Patterns and use case requirements to ensure reliable data delivery Best practices for building data pipelines and applications with Kafka How to perform monitoring tuning and maintenance tasks with Kafka in production The most critical metrics among Kafka s operational measurements Kafka s delivery capabilities for stream processing systems

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Apache Spark And Apache Kafka At The Rescue Of Distributed Introduction

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