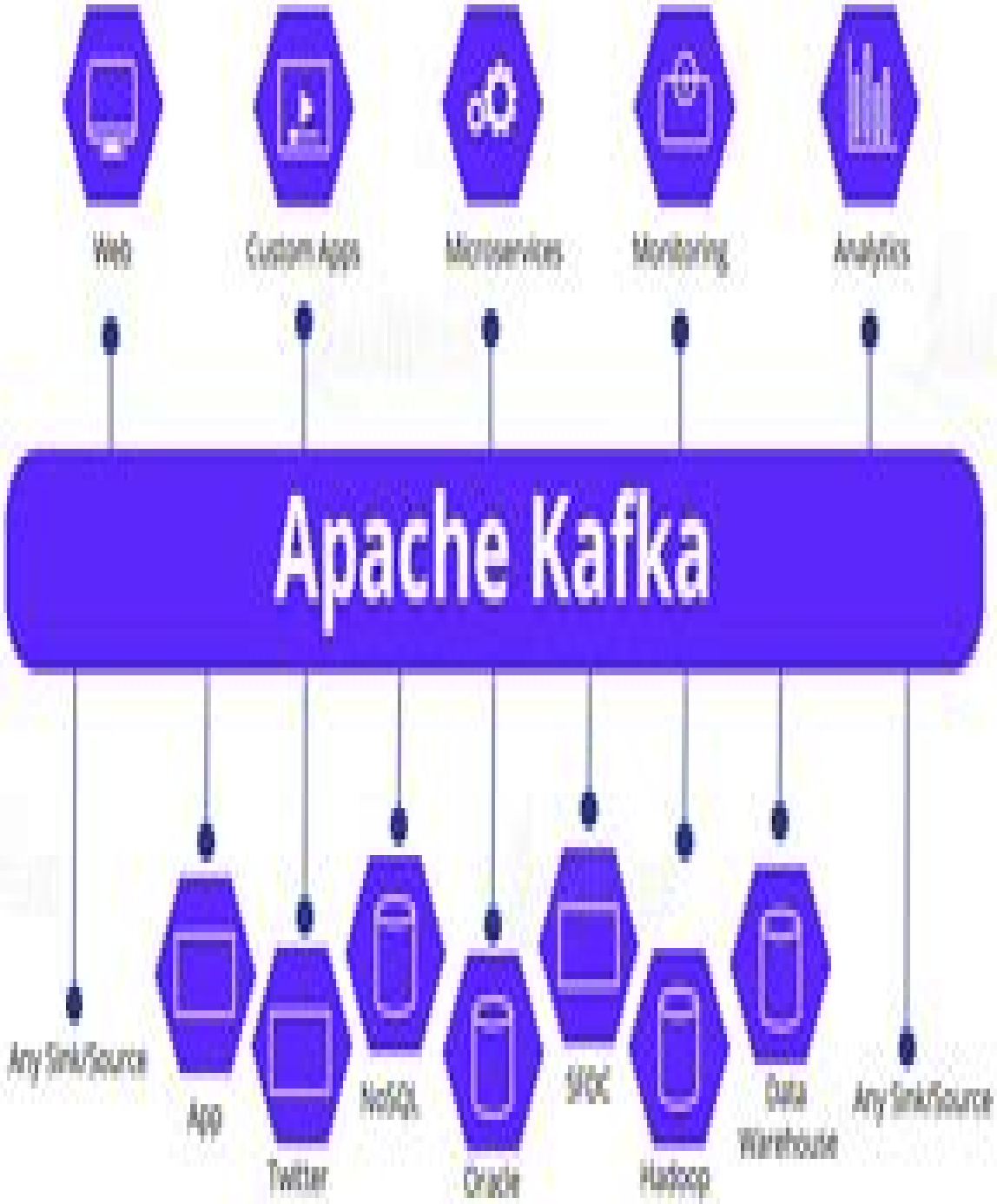
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Apache Kafka Apache Mesos

Kathleen Armour

Apache Kafka Apache Mesos:

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 **Apache Mesos Essentials** Dharmesh Kakadia,2015-06-29 This book is intended for developers and operators who want to build and run scalable and fault tolerant applications leveraging Apache Mesos A basic knowledge of programming with some fundamentals of Linux is a prerequisite

Fast Data Processing Systems with SMACK Stack Raul Estrada,2016-12-22 Combine the incredible powers of Spark Mesos Akka Cassandra and Kafka to build data processing platforms that can take on even the hardest of your data troubles About This Book This highly practical guide shows you how to use the best of the big data technologies to solve your response critical problems Learn the art of making cheap yet effective big data architecture without using complex Greek letter architectures Use this easy to follow guide to build fast data processing systems for your organization Who This Book Is For If you are a developer data architect or a data scientist looking for information on how to integrate the Big Data stack architecture and how to choose the correct technology in every layer this book is what you are looking for What You Will Learn Design and implement a fast data Pipeline architecture Think and solve programming challenges in a functional way with Scala Learn to use Akka the actors model implementation for the JVM Make on memory processing and data analysis with Spark to solve modern business demands Build a powerful and effective cluster infrastructure with Mesos and Docker Manage and consume unstructured and No SQL data sources with Cassandra Consume and produce messages in a massive way with Kafka In Detail SMACK is an open source full stack for big data architecture It is a combination of Spark Mesos

Akka Cassandra and Kafka This stack is the newest technique developers have begun to use to tackle critical real time analytics for big data This highly practical guide will teach you how to integrate these technologies to create a highly efficient data analysis system for fast data processing We ll start off with an introduction to SMACK and show you when to use it First you ll get to grips with functional thinking and problem solving using Scala Next you ll come to understand the Akka architecture Then you ll get to know how to improve the data structure architecture and optimize resources using Apache Spark Moving forward you ll learn how to perform linear scalability in databases with Apache Cassandra You ll grasp the high throughput distributed messaging systems using Apache Kafka We ll show you how to build a cheap but effective cluster infrastructure with Apache Mesos Finally you will deep dive into the different aspect of SMACK using a few case studies By the end of the book you will be able to integrate all the components of the SMACK stack and use them together to achieve highly effective and fast data processing Style and approach With the help of various industry examples you will learn about the full stack of big data architecture taking the important aspects in every technology You will learn how to integrate the technologies to build effective systems rather than getting incomplete information on single technologies You will learn how various open source technologies can be used to build cheap and fast data processing systems with the help of various industry examples *Handbook of Research on Big Data Storage and Visualization Techniques* Segall, Richard S.,Cook, Jeffrey S.,2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programing systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject **Learning Spark** Holden Karau,Andy Konwinski,Patrick Wendell,Matei Zaharia,2015-01-28 Data in all domains is getting bigger How can you work with it efficiently Recently updated for Spark 1 3 this book introduces Apache Spark the open source cluster computing system that makes data analytics fast to write and fast to run With Spark you can tackle big datasets quickly through simple APIs in Python Java and Scala This edition includes new information on Spark SQL Spark Streaming setup and Maven coordinates Written by the developers of Spark this book will have data scientists and engineers up and running in no time You ll learn how to express parallel jobs with just a few lines of code and cover applications from simple batch jobs to stream processing and machine learning Quickly dive into Spark capabilities such as distributed datasets in memory caching and the interactive shell Leverage Spark s powerful built in

libraries including Spark SQL Spark Streaming and MLlib Use one programming paradigm instead of mixing and matching tools like Hive Hadoop Mahout and Storm Learn how to deploy interactive batch and streaming applications Connect to data sources including HDFS Hive JSON and S3 Master advanced topics like data partitioning and shared variables

Mastering Spark with R Javier Luraschi,Kevin Kuo,Edgar Ruiz,2019-10-07 If you re like most R users you have deep knowledge and love for statistics But as your organization continues to collect huge amounts of data adding tools such as Apache Spark makes a lot of sense With this practical book data scientists and professionals working with large scale data applications will learn how to use Spark from R to tackle big data and big compute problems Authors Javier Luraschi Kevin Kuo and Edgar Ruiz show you how to use R with Spark to solve different data analysis problems This book covers relevant data science topics cluster computing and issues that should interest even the most advanced users Analyze explore transform and visualize data in Apache Spark with R Create statistical models to extract information and predict outcomes automate the process in production ready workflows Perform analysis and modeling across many machines using distributed computing techniques Use large scale data from multiple sources and different formats with ease from within Spark Learn about alternative modeling frameworks for graph processing geospatial analysis and genomics at scale Dive into advanced topics including custom transformations real time data processing and creating custom Spark extensions

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 **Python for Programmers** Paul Deitel,Harvey Deitel,2019-03-15 The professional programmer s Deitel guide to Python with introductory artificial intelligence case studies

Written for programmers with a background in another high level language Python for Programmers uses hands on instruction to teach today s most compelling leading edge computing technologies and programming in Python one of the world s most popular and fastest growing languages Please read the Table of Contents diagram inside the front cover and the Preface for more details In the context of 500 real world examples ranging from individual snippets to 40 large scripts and full implementation case studies you ll use the interactive IPython interpreter with code in Jupyter Notebooks to quickly master the latest Python coding idioms After covering Python Chapters 1 5 and a few key parts of Chapters 6 7 you ll be able to handle significant portions of the hands on introductory AI case studies in Chapters 11 16 which are loaded with cool powerful contemporary examples These include natural language processing data mining Twitter for sentiment analysis cognitive computing with IBM WatsonTM supervised machine learning with classification and regression unsupervised machine learning with clustering computer vision through deep learning and convolutional neural networks deep learning with recurrent neural networks big data with Hadoop SparkTM and NoSQL databases the Internet of Things and more You ll also work directly or indirectly with cloud based services including Twitter Google TranslateTM IBM Watson Microsoft Azure OpenMapQuest PubNub and more Features 500 hands on real world live code examples from snippets to case studies IPython code in Jupyter Notebooks Library focused Uses Python Standard Library and data science libraries to accomplish significant tasks with minimal code Rich Python coverage Control statements functions strings files JSON serialization CSV exceptions Procedural functional style and object oriented programming Collections Lists tuples dictionaries sets NumPy arrays pandas Series DataFrames Static dynamic and interactive visualizations Data experiences with real world datasets and data sources Intro to Data Science sections AI basic stats simulation animation random variables data wrangling regression AI big data and cloud data science case studies NLP data mining Twitter IBM WatsonTM machine learning deep learning computer vision Hadoop SparkTM NoSQL IoT Open source libraries NumPy pandas Matplotlib Seaborn Folium SciPy NLTK TextBlob spaCy Textatistic Tweepy scikit learn Keras and more Accompanying code examples are available here http ptgmedia pearsoncmg com imprint_downloads informit bookreg 9780135224335 9780135224335_examples zip Register your product for convenient access to downloads updates and or corrections as they become available See inside book for more information **Mastering Mesos** Dipa Dubhashi,Akhil Das,2016-05-26 The ultimate guide to managing building and deploying large scale clusters with Apache Mesos About This Book Master the architecture of Mesos and intelligently distribute your task across clusters of machines Explore a wide range of tools and platforms that Mesos works with This real world comprehensive and robust tutorial will help you become an expert Who This Book Is For The book aims to serve DevOps engineers and system administrators who are familiar with the basics of managing a Linux system and its tools What You Will Learn Understand the Mesos architecture Manually spin up a Mesos cluster on a distributed infrastructure Deploy a multi node Mesos cluster using your favorite DevOps See the nuts and bolts of scheduling service discovery failure handling

security monitoring and debugging in an enterprise grade production cluster deployment Use Mesos to deploy big data frameworks containerized applications or even custom build your own applications effortlessly In Detail Apache Mesos is open source cluster management software that provides efficient resource isolations and resource sharing distributed applications or frameworks This book will take you on a journey to enhance your knowledge from amateur to master level showing you how to improve the efficiency management and development of Mesos clusters The architecture is quite complex and this book will explore the difficulties and complexities of working with Mesos We begin by introducing Mesos explaining its architecture and functionality Next we provide a comprehensive overview of Mesos features and advanced topics such as high availability fault tolerance scaling and efficiency Furthermore you will learn to set up multi node Mesos clusters on private and public clouds We will also introduce several Mesos based scheduling and management frameworks or applications to enable the easy deployment discovery load balancing and failure handling of long running services Next you will find out how a Mesos cluster can be easily set up and monitored using the standard deployment and configuration management tools This advanced guide will show you how to deploy important big data processing frameworks such as Hadoop Spark and Storm on Mesos and big data storage frameworks such as Cassandra Elasticsearch and Kafka Style and approach This advanced guide provides a detailed step by step account of deploying a Mesos cluster It will demystify the concepts behind Mesos Fast Data Processing Systems with SMACK Stack Raúl Estrada Aparicio,2017 SMACK is an open source full stack for big data architecture It is a combination of Spark Mesos Akka Cassandra and Kafka This stack is the newest technique developers have begun to use to tackle critical real time analytics for big data This highly practical tutorial will teach you how to integrate these technologies to create a highly efficient data analysis system for fast data processing We ll start off with an introduction to SMACK and show you when to use it First you ll get to grips with functional thinking and problem solving using Scala Next you ll come to understand the Akka architecture Then you ll get to know how to improve the data structure architecture and optimize resources using Apache Spark Moving forward you ll learn how to perform linear scalability in databases with Apache Cassandra You ll grasp the high throughput distributed messaging systems using Apache Kafka We ll show you how to build a cheap but effective cluster infrastructure with Apache Mesos Finally you will deep dive into the different aspects of SMACK using 2 practical case studies By the end of the video you will be able to integrate all the components of the SMACK stack and use them together to achieve highly effective and fast data processing Resource description page **Complete Guide to Open Source Big Data Stack** Michael Frampton,2018-01-18 See a Mesos based big data stack created and the components used You will use currently available Apache full and incubating systems The components are introduced by example and you learn how they work together In the Complete Guide to Open Source Big Data Stack the author begins by creating a private cloud and then installs and examines Apache Brooklyn After that he uses each chapter to introduce one piece of the big data stack sharing how to source the

software and how to install it You learn by simple example step by step and chapter by chapter as a real big data stack is created The book concentrates on Apache based systems and shares detailed examples of cloud storage release management resource management processing queuing frameworks data visualization and more What You ll Learn Install a private cloud onto the local cluster using Apache cloud stack Source install and configure Apache Brooklyn Mesos Kafka and Zeppelin See how Brooklyn can be used to install Mule ESB on a cluster and Cassandra in the cloud Install and use DCOS for big data processing Use Apache Spark for big data stack data processing Who This Book Is For Developers architects IT project managers database administrators and others charged with developing or supporting a big data system It is also for anyone interested in Hadoop or big data and those experiencing problems with data size **Apache Mesos The Ultimate Step-By-Step Guide** Gerardus Blokdyk,2018 Apache Mesos The Ultimate Step By Step Guide *Kafka in Action* Dylan Scott,Viktor Gamov,Dave Klein,2022-03-22 Master the wicked fast Apache Kafka streaming platform through hands on examples and real world projects In Kafka in Action you will learn Understanding Apache Kafka concepts Setting up and executing basic ETL tasks using Kafka Connect Using Kafka as part of a large data project team Performing administrative tasks Producing and consuming event streams Working with Kafka from Java applications Implementing Kafka as a message queue Kafka in Action is a fast paced introduction to every aspect of working with Apache Kafka Starting with an overview of Kafka s core concepts you ll immediately learn how to set up and execute basic data movement tasks and how to produce and consume streams of events Advancing quickly you ll soon be ready to use Kafka in your day to day workflow and start digging into even more advanced Kafka topics About the technology Think of Apache Kafka as a high performance software bus that facilitates event streaming logging analytics and other data pipeline tasks With Kafka you can easily build features like operational data monitoring and large scale event processing into both large and small scale applications About the book Kafka in Action introduces the core features of Kafka along with relevant examples of how to use it in real applications In it you ll explore the most common use cases such as logging and managing streaming data When you re done you ll be ready to handle both basic developer and admin based tasks in a Kafka focused team What s inside Kafka as an event streaming platform Kafka producers and consumers from Java applications Kafka as part of a large data project About the reader For intermediate Java developers or data engineers No prior knowledge of Kafka required About the author Dylan Scott is a software developer in the insurance industry Viktor Gamov is a Kafka focused developer advocate At Confluent Dave Klein helps developers teams and enterprises harness the power of event streaming with Apache Kafka Table of Contents PART 1 GETTING STARTED 1 Introduction to Kafka 2 Getting to know Kafka PART 2 APPLYING KAFK 3 Designing a Kafka project 4 Producers Sourcing data 5 Consumers Unlocking data 6 Brokers 7 Topics and partitions 8 Kafka storage 9 Management Tools and logging PART 3 GOING FURTHER 10 Protecting Kafka 11 Schema registry 12 Stream processing with Kafka Streams and ksqlDB *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 FeaturesSolve practical large data and processing challenges with KafkaTackle data processing challenges like late events windowing and watermarkingUnderstand real time streaming applications processing using Schema registry Kafka connect Kafka streams and KSQLBook 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 asext 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 learnHow to validate data with KafkaAdd information to existing data flowsGenerate new information through message compositionPerform data validation and versioning with the Schema RegistryHow to perform message Serialization and DeserializationHow to perform message Serialization and DeserializationProcess data streams with Kafka StreamsUnderstand the duality between tables and streams with KSQLWho 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

Apache Kafka Ernesto Lee,2021-04-12 Are you looking to build resilient big data services and applications without compromising on the reliability stability and the performance of your high performance low latency system and have heard that Apache Kafka might be your best bet but have no idea how to use it And are you looking for a comprehensive guide that will show you everything you need to know about Apache Kafka so you can understand just how it is designed for real time high speed data processing as well as how to put it to use If you ve answered YES Let This Book Introduce You To The World Of Using Apache Kafka To Build World Class Low Latency High Throughput Systems That Have The Ability To Handle High Volume Real Time Data Feeds Just Like Some Of The World s Biggest Tech Systems Like Twitter Uber Netflix LinkedIn And More Every successful business nowadays revolves around big data and that s why there is quite a number of platforms technologies and frameworks that have cropped up to support this over the years One such solution which is proving to be effective and the best is Apache Kafka an open source software platform specifically designed for high speed real time data

processing as seen in its ability to support driver and passenger matching on Uber for example and its ability to support many real time services on LinkedIn The fact that you are reading this means you ve probably grown curious about Apache Kafka having heard a lot about it and you are wondering what kinds of systems it can be implemented in and how to implement it Perhaps you are wondering What exactly does Apache Kafka do that makes so exceptional that major applications like Cisco Walmart JPMC Bank of America Uber and LinkedIn would use it Who are the closest competitors and what makes Apache Kafka different How does Apache Kafka work How can you use Apache Kafka in building resilient durable and stable applications and services for your business If you have these and other related questions about Apache Kafka this corporate IT training courseware is for you so keep reading as it will teach you everything you need to understand the inner workings of Apache Kafka like the back of our hand 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 moreEven if this is your first encounter with Apache Kafka as a business this corporate IT training courseware will leave you feeling confident about your ability to start using it to develop and administer fast and reliable IT systems What s more you can download all supporting files from Ernesto Net along with a docker container that has already been staged to help you complete the activities in the book Scroll up and click Buy Now With 1 Click or Buy Now to get started PySpark Recipes Raju Kumar Mishra,2017-12-09 Quickly find solutions to common programming problems encountered while processing big data Content is presented in the popular problem solution format Look up the programming problem that you want to solve Read the solution Apply the solution directly in your own code Problem solved PySpark Recipes covers Hadoop and its shortcomings The architecture of Spark PySpark and RDD are presented You will learn to apply RDD to solve day to day big data problems Python and NumPy are included and make it easy for new learners of PySpark to understand and adopt the model What You Will Learn Understand the advanced features of PySpark2 and SparkSQL Optimize your code Program SparkSQL with Python Use Spark Streaming and Spark MLlib with Python Perform graph analysis with GraphFrames Who This Book Is For Data analysts Python programmers big data enthusiasts **Apache Kafka in Action** Anatoly Zelenin,Alexander Kropp,2025-06-03 Apache Kafka start to finish Apache Kafka in Action From basics to production guides you through the concepts and skills you ll need to deploy and administer Kafka for data pipelines event driven applications and other systems that process data streams from multiple sources Authors Anatoly Zelenin and Alexander Kropp have spent years using Kafka

in real world production environments In this guide they reveal their hard won expert insights to help you avoid common Kafka pitfalls and challenges Inside Apache Kafka in Action you ll discover Apache Kafka from the ground up Achieving reliability and performance Troubleshooting Kafka systems Operations governance and monitoring Kafka use cases patterns and anti patterns Clear concise and practical Apache Kafka in Action is written for IT operators software engineers and IT architects working with Kafka every day Chapter by chapter it guides you through the skills you need to deliver and maintain reliable and fault tolerant data driven applications Foreword by Adam Bellemare About the technology Apache Kafka is the gold standard streaming data platform for real time analytics event sourcing and stream processing Acting as a central hub for distributed data it enables seamless flow between producers and consumers via a publish subscribe model Kafka easily handles millions of events per second and its rock solid design ensures high fault tolerance and smooth scalability About the book Apache Kafka in Action is a practical guide for IT professionals who are integrating Kafka into data intensive applications and infrastructures The book covers everything from Kafka fundamentals to advanced operations with interesting visuals and real world examples Readers will learn to set up Kafka clusters produce and consume messages handle real time streaming and integrate Kafka into enterprise systems This easy to follow book emphasizes building reliable Kafka applications and taking advantage of its distributed architecture for scalability and resilience What s inside Master Kafka s distributed streaming capabilities Implement real time data solutions Integrate Kafka into enterprise environments Build and manage Kafka applications Achieve fault tolerance and scalability About the reader For IT operators software architects and developers No experience with Kafka required About the author Anatoly Zelenin is a Kafka expert known for workshops across Europe especially in banking and manufacturing Alexander Kropp specializes in Kafka and Kubernetes contributing to cloud platform design and monitoring Table of Contents Part 1 1 Introduction to Apache Kafka 2 First steps with Kafka Part 2 3 Exploring Kafka topics and messages 4 Kafka as a distributed log 5 Reliability 6 Performance Part 3 7 Cluster management 8 Producing and persisting messages 9 Consuming messages 10 Cleaning up messages Part 4 11 Integrating external systems with Kafka Connect 12 Stream processing 13 Governance 14 Kafka reference architecture 15 Kafka monitoring and alerting16 Disaster management 17 Comparison with other technologies 18 Kafka s role in modern enterprise architectures Appendixes A Setting up a Kafka test environment B Monitoring setup **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 **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 pracitcalpractical 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 Kafka: The Definitive Guide Neha Narkhede,Gwen Shapira,Todd Palino,2017-08-31 Every enterprise application creates data whether it s log messages metrics user activity outgoing messages or something else And how to move all of this data becomes nearly as important as the data itself If you re an application architect developer or production engineer new to Apache Kafka this practical guide shows you how to use

this open source streaming platform to handle real time data feeds Engineers from Confluent and LinkedIn who are 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 Understand publish subscribe messaging and how it fits in the big data ecosystem Explore Kafka producers and consumers for writing and reading messages Understand Kafka patterns and use case requirements to ensure reliable data delivery Get best practices for building data pipelines and applications with Kafka Manage Kafka in production and learn to perform monitoring tuning and maintenance tasks Learn the most critical metrics among Kafka s operational measurements Explore how Kafka s stream delivery capabilities make it a perfect source for stream processing systems

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