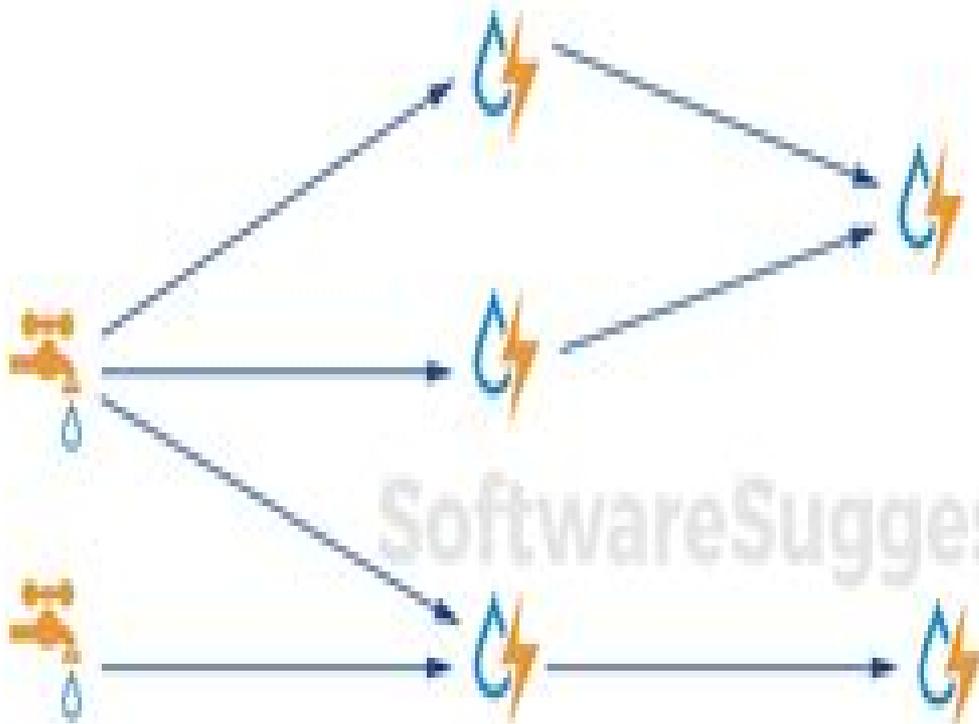


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Modern Big Data Processing with Hadoop V Naresh Kumar, Prashant Shindgikar, 2018-03-30 A comprehensive guide to design build and execute effective Big Data strategies using Hadoop Key Features Get an in depth view of the Apache Hadoop ecosystem and an overview of the architectural patterns pertaining to the popular Big Data platform Conquer different data processing and analytics challenges using a multitude of tools such as Apache Spark Elasticsearch Tableau and more A comprehensive step by step guide that will teach you everything you need to know to be an expert Hadoop Architect Book Description The complex structure of data these days requires sophisticated solutions for data transformation to make the information more accessible to the users This book empowers you to build such solutions with relative ease with the help of Apache Hadoop along with a host of other Big Data tools This book will give you a complete understanding of the data lifecycle management with Hadoop followed by modeling of structured and unstructured data in Hadoop It will also show you how to design real time streaming pipelines by leveraging tools such as Apache Spark and build

efficient enterprise search solutions using Elasticsearch You will learn to build enterprise grade analytics solutions on Hadoop and how to visualize your data using tools such as Apache Superset This book also covers techniques for deploying your Big Data solutions on the cloud Apache Ambari as well as expert techniques for managing and administering your Hadoop cluster By the end of this book you will have all the knowledge you need to build expert Big Data systems What you will learn Build an efficient enterprise Big Data strategy centered around Apache Hadoop Gain a thorough understanding of using Hadoop with various Big Data frameworks such as Apache Spark Elasticsearch and more Set up and deploy your Big Data environment on premises or on the cloud with Apache Ambari Design effective streaming data pipelines and build your own enterprise search solutions Utilize the historical data to build your analytics solutions and visualize them using popular tools such as Apache Superset Plan set up and administer your Hadoop cluster efficiently Who this book is for This book is for Big Data professionals who want to fast track their career in the Hadoop industry and become an expert Big Data architect Project managers and mainframe professionals looking forward to build a career in Big Data Hadoop will also find this book to be useful Some understanding of Hadoop is required to get the best out of this book

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Big Data Made Easy Michael Frampton, 2014-12-31 Many corporations are finding that the size of their data sets are outgrowing the capability of their systems to store and process them The data is becoming too big to manage and use with traditional tools The solution implementing a big data system As Big Data Made Easy A Working Guide to the Complete Hadoop Toolset shows Apache Hadoop offers a scalable fault tolerant system for storing and processing data in parallel It has a very rich toolset that allows for storage Hadoop configuration YARN and ZooKeeper collection Nutch and Solr processing Storm Pig and Map Reduce scheduling Oozie moving Sqoop and Avro monitoring Chukwa Ambari and Hue testing Big Top and analysis Hive The problem is that the Internet offers IT pros wading into big data many versions of the truth and some outright falsehoods born of ignorance What is needed is a book just like this one a wide ranging but easily understood set of instructions to explain where to get Hadoop tools what they can do how to install them how to configure them how to integrate them and how to use them successfully And you need an expert who has worked in this area for a decade someone just like author and big data expert Mike Frampton Big Data Made Easy approaches the problem of managing massive data sets from a systems perspective and it explains the roles for each project like architect and tester for example and shows how the Hadoop toolset can be used at each system stage It explains in an easily understood manner and through numerous examples how to use each tool The book also explains the sliding scale of tools available depending upon data size and when and how to use them Big Data Made Easy shows developers and architects as well as testers and project managers how to Store big data Configure big data Process big data Schedule processes Move data among SQL and NoSQL systems Monitor data Perform big data analytics Report on big data processes and projects Test big data systems Big Data Made Easy also explains the best part which is that this toolset is free Anyone can download it and with the help of this book start to use it within a day With the skills this book will teach you under your belt you will add value to your company or client immediately not to mention your career

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Practical Automated Machine Learning Using H2O.ai Salil Ajgaonkar,2022-09-26 Accelerate the adoption of machine learning by automating away the complex parts of the ML pipeline using H2O ai Key FeaturesLearn how to train the best models with a single click using H2O AutoMLGet a simple explanation of model performance using H2O ExplainabilityEasily deploy your trained models to production using H2O MOJO and POJOBook Description With the huge amount of data being generated over the internet and the benefits that Machine Learning ML predictions bring to businesses ML implementation has become a low hanging fruit that everyone is striving for The complex mathematics behind it however can be discouraging for a lot of users This is where H2O comes in it automates various repetitive steps and this encapsulation helps developers focus on results rather than handling complexities You ll begin by understanding how H2O s AutoML simplifies the implementation of ML by providing a simple easy to use interface to train and use ML models Next you ll see how AutoML automates the entire process of training multiple models optimizing their hyperparameters as well as explaining their performance As you advance you ll find out how to leverage a Plain Old Java Object POJO and Model Object Optimized MOJO to deploy your models to production Throughout this book you ll take a hands on approach to implementation using H2O that ll enable you to set up your ML systems in no time By the end of this H2O book you ll be able to train and use your ML models using H2O AutoML right from experimentation all the way to

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Mastering Hadoop Sandeep Karanth, 2014-12-29 Do you want to broaden your Hadoop skill set and take your knowledge to the next level Do you wish to enhance your knowledge of Hadoop to solve challenging data processing problems Are your Hadoop jobs Pig scripts or Hive queries not working as fast as you intend Are you looking to understand the benefits of upgrading Hadoop If the answer is yes to any of these this book is for you It assumes novice level familiarity with Hadoop

[Learning Apache Storm for Big Data Processing](#) Prashant Nair, 2018 Apache Storm is a distributed real time processing engine Created by Nathan Marz for Backtype and later open sourced under Apache License 2.0 it's a scalable and a fault tolerant engine used to process a massive number of unbounded streams In this course you will see how simple yet efficient Apache Storm is when it comes to real time processing In the course you will learn about data processing types followed by Apache Storm and its features You'll learn the core concepts of Apache Storm such as spouts bolts topology and stream grouping and set up Apache Storm in single node and multi node configurations Also you'll explore how fault tolerant Apache Storm is Taking this course will kick start your experience with Apache Storm you'll create a scalable fault tolerant real time processing application while setting a strong base for the fundamentals of the real time processing paradigm and Apache Storm Resource description page

Apache Storm Jason Manning, 2004 As the Civil War begins brewing in the East dwindling bands of Apache warriors in the West are determined to die fighting and take with them as many of their hated enemies as they can But Lieutenant Joshua Barlow is willing to defy the whole U.S. Army to fight the Apache on his own terms Original

Interavia, 2001

Machine Learning, 2017 Real world solved examples of real time stream processing Storm is to real time stream processing what Hadoop is to batch processing From simple data transformations to applying machine learning algorithms on the fly Storm can do it all In this Apache Storm learn by example online course you will learn how to use Storm to build applications which need you to be highly responsive to the latest data and react within seconds and minutes such as finding the latest trending topics on Twitter or monitoring spikes in payment gateway failures Learn to build a Storm topology control parallelism use Trident to perform transformations apply Machine Learning algorithms on the fly and so much more Resource description page

Microsoft Big Data Solutions Adam

Jorgensen, James Rowland-Jones, John Welch, Dan Clark, Christopher Price, Brian Mitchell, 2014-03-10 Tap the power of Big Data with Microsoft technologies Big Data is here and Microsoft's new Big Data platform is a valuable tool to help your company get the very most out of it This timely book shows you how to use HDInsight along with HortonWorks Data Platform for Windows to store manage analyze and share Big Data throughout the enterprise Focusing primarily on Microsoft and HortonWorks technologies but also covering open source tools Microsoft Big Data Solutions explains best practices covers on premises and cloud based solutions and features valuable case studies Best of all it helps you integrate these new solutions with technologies you already know such as SQL Server and Hadoop Walks you through how to integrate Big Data solutions in your company using Microsoft's HDInsight Server HortonWorks Data Platform for Windows and open source tools Explores both on premises and cloud based solutions Shows how to store manage analyze and share Big Data through the enterprise Covers topics such as Microsoft's approach to Big Data installing and configuring HortonWorks Data Platform for Windows integrating Big Data with SQL Server visualizing data with Microsoft and HortonWorks BI tools and more Helps you build and execute a Big Data plan Includes contributions from the Microsoft and HortonWorks Big Data product teams If you need a detailed roadmap for designing and implementing a fully deployed Big Data solution you'll want Microsoft Big Data Solutions

Storm Applied Matthew Jankowski, Peter Pathirana, Sean Allen, 2015-03-30 Summary Storm Applied is a practical guide to using Apache Storm for the real world tasks associated with processing and analyzing real time data streams This immediately useful book starts by building a solid foundation of Storm essentials so that you learn how to think about designing Storm solutions the right way from day one But it quickly dives into real world case studies that will bring the novice up to speed with productionizing Storm Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications Summary Storm Applied is a practical guide to using Apache Storm for the real world tasks associated with processing and analyzing real time data streams This immediately useful book starts by building a solid foundation of Storm essentials so that you learn how to think about designing Storm solutions the right way from day one But it quickly dives into real world case studies that will bring the novice up to speed with productionizing Storm About the Technology It's hard to make sense out of data when it's coming at you fast Like Hadoop Storm processes large amounts of data but it does it reliably and in real time guaranteeing that every message will be processed Storm allows you to scale with your data as it grows making it an excellent platform to solve your big data problems About the Book Storm Applied is an example driven guide to processing and analyzing real time data streams This immediately useful book starts by teaching you how to design Storm solutions the right way Then it quickly dives into real world case studies that show you how to scale a high throughput stream processor ensure smooth operation within a production cluster and more Along the way you'll learn to use Trident for stateful stream processing along with other tools from the Storm ecosystem This book moves through the basics quickly While prior experience with Storm is not assumed some experience with big data and real time systems is

helpful What's Inside Mapping real problems to Storm components Performance tuning and scaling Practical troubleshooting and debugging Exactly once processing with Trident About the Authors Sean Allen Matthew Jankowski and Peter Pathirana lead the development team for a high volume search intensive commercial web application at TheLadders Table of Contents

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Understanding Big Data Scalability Cory Isaacson, 2014-07-11 Get Started Scaling Your Database Infrastructure for High Volume Big Data Applications

Understanding Big Data Scalability presents the fundamentals of scaling databases from a single node to large clusters It provides a practical explanation of what Big Data systems are and fundamental issues to consider when optimizing for performance and scalability Cory draws on many years of experience to explain issues involved in working with data sets that can no longer be handled with single monolithic relational databases His approach is particularly relevant now that relational data models are making a comeback via SQL interfaces to popular NoSQL databases and Hadoop distributions This book should be especially useful to database practitioners new to scaling databases beyond traditional single node deployments Brian O Krafka software architect

Understanding Big Data Scalability presents a solid foundation for scaling Big Data infrastructure and helps you address each crucial factor associated with optimizing performance in scalable and dynamic Big Data clusters Database expert Cory Isaacson offers practical actionable insights for every technical professional who must scale a database tier for high volume applications Focusing on today's most common Big Data applications he introduces proven ways to manage unprecedented data growth from widely diverse sources and to deliver real time processing at levels that were inconceivable until recently Isaacson explains why databases slow down reviews each major technique for scaling database applications and identifies the key rules of database scalability that every architect should follow You'll find insights and techniques proven with all types of database engines and environments including SQL NoSQL and Hadoop Two start to finish case studies walk you through planning and implementation offering specific lessons for formulating your own scalability strategy Coverage includes Understanding the true causes of database performance degradation in today's Big Data environments Scaling smoothly to petabyte class databases and beyond Defining database clusters for maximum scalability and performance Integrating NoSQL or columnar databases that aren't drop in replacements for RDBMSes Scaling application components solutions and options for each tier Recognizing when to scale your data tier a decision with enormous consequences for your application environment Why data relationships may be even more important in non relational databases Why virtually every database scalability implementation still relies on sharding and how to choose the best approach How to set clear objectives for architecting high performance Big Data implementations The Big Data Scalability Series is a comprehensive four part series containing information on many facets of database performance and scalability Understanding Big Data Scalability is the first book in the series Learn more and join the conversation about Big

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