



Apache HBase™ Reference Guide

Apache HBase Team

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Apache Hbase Reference Guide

Guillaume Favre



Apache Hbase Reference Guide:

Big Scientific Data Management Jianhui Li,Xiaofeng Meng,Ying Zhang,Wenjuan Cui,Zhihui Du,2019-08-06 This book constitutes the refereed proceedings of the First International Conference on Big Scientific Data Management BigSDM 2018 held in Beijing Greece in November December 2018 The 24 full papers presented together with 7 short papers were carefully reviewed and selected from 86 submissions The topics involved application cases in the big scientific data management paradigms for enhancing scientific discovery through big data data management challenges posed by big scientific data machine learning methods to facilitate scientific discovery science platforms and storage systems for large scale scientific applications data cleansing and quality assurance of science data and data policies *Data Analytics with Hadoop* Benjamin Bengfort,Jenny Kim,2016-06 Ready to use statistical and machine learning techniques across large data sets This practical guide shows you why the Hadoop ecosystem is perfect for the job Instead of deployment operations or software development usually associated with distributed computing you ll focus on particular analyses you can build the data warehousing techniques that Hadoop provides and higher order data workflows this framework can produce Data scientists and analysts will learn how to perform a wide range of techniques from writing MapReduce and Spark applications with Python to using advanced modeling and data management with Spark MLlib Hive and HBase You ll also learn about the analytical processes and data systems available to build and empower data products that can handle and actually require huge amounts of data Understand core concepts behind Hadoop and cluster computing Use design patterns and parallel analytical algorithms to create distributed data analysis jobs Learn about data management mining and warehousing in a distributed context using Apache Hive and HBase Use Sqoop and Apache Flume to ingest data from relational databases Program complex Hadoop and Spark applications with Apache Pig and Spark DataFrames Perform machine learning techniques such as classification clustering and collaborative filtering with Spark s MLlib *Hadoop in Practice* Alex Holmes,2014-09-29 Summary Hadoop in Practice Second Edition provides over 100 tested instantly useful techniques that will help you conquer big data using Hadoop This revised new edition covers changes and new features in the Hadoop core architecture including MapReduce 2 Brand new chapters cover YARN and integrating Kafka Impala and Spark SQL with Hadoop You ll also get new and updated techniques for Flume Sqoop and Mahout all of which have seen major new versions recently In short this is the most practical up to date coverage of Hadoop available anywhere Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book It s always a good time to upgrade your Hadoop skills Hadoop in Practice Second Edition provides a collection of 104 tested instantly useful techniques for analyzing real time streams moving data securely machine learning managing large scale clusters and taming big data using Hadoop This completely revised edition covers changes and new features in Hadoop core including MapReduce 2 and YARN You ll pick up hands on best practices for integrating Spark Kafka and Impala with Hadoop and get new and updated techniques for the latest

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Hadoop Security Ben Spivey, Joey Echeverria, 2015-06-29 As more corporations turn to Hadoop to store and process their most valuable data the risk of a potential breach of those systems increases exponentially This practical book not only shows Hadoop administrators and security architects how to protect Hadoop data from unauthorized access it also shows how to limit the ability of an attacker to corrupt or modify data in the event of a security breach Authors Ben Spivey and Joey Echeverria provide in depth information about the security features available in Hadoop and organize them according to common computer security concepts You ll also get real world examples that demonstrate how you can apply these concepts to your use cases Understand the challenges of securing distributed systems particularly Hadoop Use best practices for preparing Hadoop cluster hardware as securely as possible Get an overview of the Kerberos network authentication protocol Delve into authorization and accounting principles as they apply to Hadoop Learn how to use mechanisms to protect data in a Hadoop cluster both in transit and at rest Integrate Hadoop data ingest into enterprise wide security architecture Ensure that security architecture reaches all the way to end user access *Big Data in ehealthcare* Nandini Mukherjee, Sarmistha Neogy, Samiran Chattopadhyay, 2019-01-15 This book focuses on the different aspects of handling big data in healthcare It showcases the current state of the art technology used for storing health records and health data models It also focuses on the research challenges in big data acquisition storage management and analysis **HBase** Lars George, 2011-09-05 HBase The Definitive Guide provides the details for evaluating this high performance non relational database or putting it into practice right away HBase s adoption rate is beginning to climb and IT executives are asking pointed questions about this

high capacity database *Using Flume* Hari Shreedharan,2014 How can you get your data from frontend servers to Hadoop in near real time With this complete reference guide you ll learn Flume s rich set of features for collecting aggregating and writing large amounts of streaming data to the Hadoop Distributed File System HDFS Apache HBase SolrCloud Elastic Search and other systems *Using Flume* shows operations engineers how to configure deploy and monitor a Flume cluster and teaches developers how to write Flume plugins and custom components for their specific use cases You ll learn about Flume s design and implementation as well as var

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Hbase Administration Cookbook Yifeng Jiang,2012-08-16 As part of Packt s cookbook series each recipe offers a practical step by step solution to common problems found in HBase administration This book is for HBase administrators developers and will even help Hadoop administrators You are not required to have HBase experience but are expected to

have a basic understanding of Hadoop and MapReduce **HBase High Performance Cookbook** Ruchir Choudhry,2017-01-31 Exciting projects that will teach you how complex data can be exploited to gain maximum insights About This Book Architect a good HBase cluster for a very large distributed system Get to grips with the concepts of performance tuning with HBase A practical guide full of engaging recipes and attractive screenshots to enhance your system s performance Who This Book Is For This book is intended for developers and architects who want to know all about HBase at a hands on level This book is also for big data enthusiasts and database developers who have worked with other NoSQL databases and now want to explore HBase as another futuristic scalable database solution in the big data space What You Will Learn Configure HBase from a high performance perspective Grab data from various RDBMS Flat files into the HBASE systems Understand table design and perform CRUD operations Find out how the communication between the client and server happens in HBase Grasp when to use and avoid MapReduce and how to perform various tasks with it Get to know the concepts of scaling with HBase through practical examples Set up Hbase in the Cloud for a small scale environment Integrate HBase with other tools including Elasticsearch In Detail Apache HBase is a non relational NoSQL database management system that runs on top of HDFS It is an open source distributed versioned column oriented store and is written in Java to provide random real time access to big Data We ll start off by ensuring you have a solid understanding the basics of HBase followed by giving you a thorough explanation of architecting a HBase cluster as per our project specifications Next we will explore the scalable structure of tables and we will be able to communicate with the HBase client After this we ll show you the intricacies of MapReduce and the art of performance tuning with HBase Following this we ll explain the concepts pertaining to scaling with HBase Finally you will get an understanding of how to integrate HBase with other tools such as Elasticsearch By the end of this book you will have learned enough to exploit HBase for boost system performance Style and approach This book is intended for software quality assurance testing professionals software project managers or software developers with prior experience in using Selenium and Java to test web based applications This books also provides examples for C Python and Ruby users **Apache HBase Complete Self-Assessment Guide** Gerardus Blokdyk,

Hadoop: The Definitive Guide Tom White,2012-05-10 Ready to unlock the power of your data With this comprehensive guide you ll learn how to build and maintain reliable scalable distributed systems with Apache Hadoop This book is ideal for programmers looking to analyze datasets of any size and for administrators who want to set up and run Hadoop clusters You ll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems This third edition covers recent changes to Hadoop including material on the new MapReduce API as well as MapReduce 2 and its more flexible execution model YARN Store large datasets with the Hadoop Distributed File System HDFS Run distributed computations with MapReduce Use Hadoop s data and I O building blocks for compression data integrity serialization including Avro and persistence Discover common pitfalls and advanced features for writing real world MapReduce programs Design build and

administer a dedicated Hadoop cluster or run Hadoop in the cloud Load data from relational databases into HDFS using Sqoop Perform large scale data processing with the Pig query language Analyze datasets with Hive Hadoop's data warehousing system Take advantage of HBase for structured and semi structured data and ZooKeeper for building distributed systems

HBase Essentials Nishant Garg,2014-11-14 This book is intended for developers and Big Data engineers who want to know all about HBase at a hands on level For in depth understanding it would be helpful to have a bit of familiarity with HDFS and MapReduce programming concepts with no prior experience with HBase or similar technologies This book is also for Big Data enthusiasts and database developers who have worked with other NoSQL databases and now want to explore HBase as another futuristic scalable database solution in the Big Data space

HBase - The Definitive Guide Lars George,2020-07-05 If you're looking for a scalable storage solution to accommodate a virtually endless amount of data this updated edition shows you how Apache HBase can meet your needs Modeled after Google's BigTable architecture HBase scales to billions of rows and millions of columns while ensuring that write and read performance remain constant Fully revised for HBase 1.0 this second edition brings you up to speed on the new HBase client API as well as security features and new case studies that demonstrate HBase use in the real world Whether you just started to evaluate this non relational database or plan to put it into practice right away this book has your back Launch into basic advanced and administrative features of HBase's new client facing API Use new classes to integrate HBase with Hadoop's MapReduce framework Explore HBase's architecture including the storage format write ahead log and background processes Dive into advanced usage such extended client and server options Learn cluster sizing tuning and monitoring best practices Design schemas copy tables import bulk data decommission nodes and other tasks Go deeper into HBase security including Kerberos and encryption at rest

Apache Http Server Reference Manual - for Apache Version 2.2 Apache Software Foundation,2010-12 Printed edition of the official Apache HTTP server reference documentation from the Apache 2.2.17 distribution Documents all the modules and configuration directives of Apache

[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 *Practical Hadoop Ecosystem* Deepak Vohra,2016-09-30 Learn how to use the Apache Hadoop projects including MapReduce HDFS Apache Hive Apache HBase Apache Kafka Apache Mahout and Apache Solr From setting up the environment to running sample applications each chapter in this book is a practical tutorial on using an Apache Hadoop ecosystem project While several books on Apache Hadoop are available most are based on the main projects MapReduce and HDFS and none discusses the other Apache Hadoop ecosystem projects and how they all work together as a cohesive big data development platform What You Will Learn Set up the environment in Linux for Hadoop projects using Cloudera Hadoop Distribution CDH 5 Run a MapReduce job Store data with Apache Hive and Apache HBase Index data in HDFS with Apache Solr Develop a Kafka messaging system Stream Logs to HDFS with Apache Flume Transfer data from MySQL database to Hive HDFS and HBase with Sqoop Create a Hive table over Apache Solr Develop a Mahout User Recommender System Who This Book Is For Apache Hadoop developers Pre requisite knowledge of Linux and some knowledge of Hadoop is required **Apache HTTP Server 2.4 Reference Manual 2/3** Apache Contributors,2015-11-24 The Apache HTTP Server colloquially called Apache is the world s most used web server software This comprehensive Reference Manual covers everything you need to know incl Using the Apache HTTP Server

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