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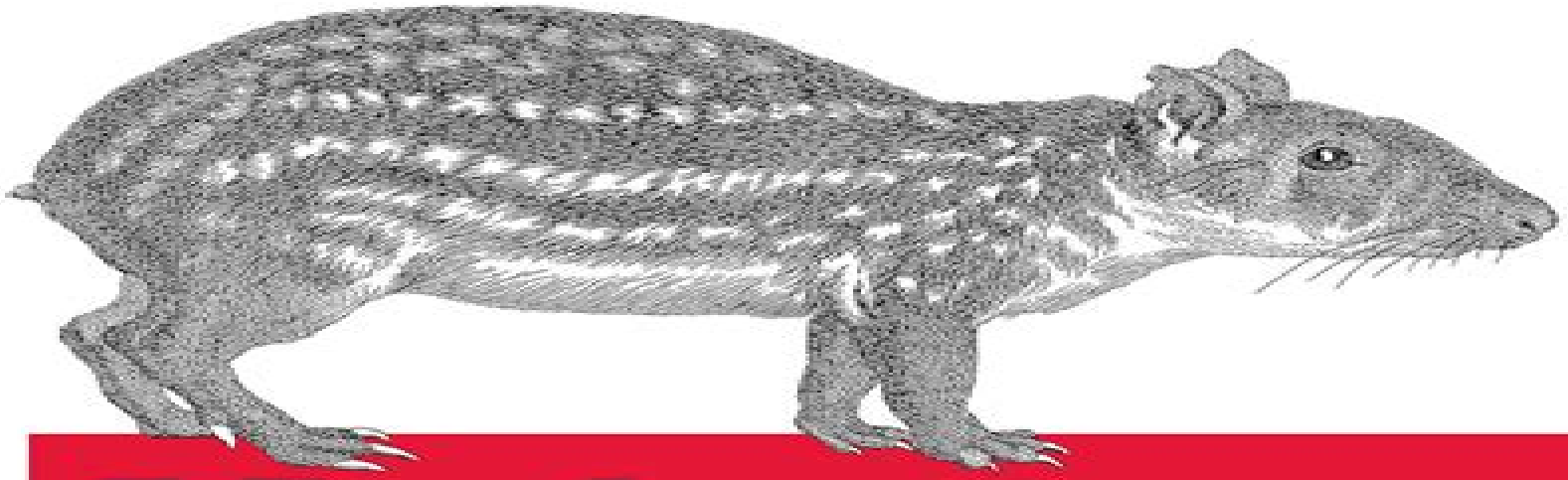

Hadoop Operations

A GUIDE FOR DEVELOPERS AND ADMINISTRATORS

Eric Sammer

Hadoop Operations By Eric Sammer

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Hadoop Operations Eric Sammer,2012-09-26 If you ve been asked to maintain large and complex Hadoop clusters this book is a must Demand for operations specific material has skyrocketed now that Hadoop is becoming the de facto standard for truly large scale data processing in the data center Eric Sammer Principal Solution Architect at Cloudera shows you the particulars of running Hadoop in production from planning installing and configuring the system to providing ongoing maintenance Rather than run through all possible scenarios this pragmatic operations guide calls out what works as demonstrated in critical deployments Get a high level overview of HDFS and MapReduce why they exist and how they work Plan a Hadoop deployment from hardware and OS selection to network requirements Learn setup and configuration details with a list of critical properties Manage resources by sharing a cluster across multiple groups Get a runbook of the most common cluster maintenance tasks Monitor Hadoop clusters and learn troubleshooting with the help of real world war stories Use basic tools and techniques to handle backup and catastrophic failure **Hadoop Operations** Eric Sammer,2012-10-09 For system administrators tasked with the job of maintaining large and complex Hadoop clusters this book explains the particulars of Hadoop operations from planning installing and configuring the system to providing ongoing maintenance *Hadoop* Tom E. White,2015 Offers information on how to build and maintain reliable scalable distributed systems with Apache Hadoop covering such topics as MapReduce HDFS YARN Avro for data serialization Parquet for nested data and data ingestion tools Flume and Sqoop Expert Hadoop Administration Sam R. Alapati,2016-11-29 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book The Comprehensive Up to Date Apache Hadoop Administration Handbook and Reference Sam Alapati has worked with production Hadoop clusters for six years His unique depth of experience has enabled him to write the go to resource for all administrators looking to spec size expand and secure production Hadoop clusters of any size Paul Dix Series Editor In Expert Hadoop Administration leading Hadoop administrator Sam R Alapati brings together authoritative knowledge for creating configuring securing managing and optimizing production Hadoop clusters in any environment Drawing on his experience with large scale Hadoop administration Alapati integrates action oriented advice with carefully researched explanations of both problems and solutions He covers an unmatched range of topics and offers an unparalleled collection of realistic examples Alapati demystifies complex Hadoop environments helping you understand exactly what happens behind the scenes when you administer your cluster You ll gain unprecedented insight as you walk through building clusters from scratch and configuring high availability performance security encryption and other key attributes The high value administration skills you learn here will be indispensable no matter what Hadoop distribution you use or what Hadoop applications you run Understand Hadoop s architecture from an administrator s standpoint Create simple and fully distributed clusters Run MapReduce and Spark applications in a Hadoop cluster Manage and protect Hadoop data and high

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Proceedings of the International Conference on Systems, Science, Control, Communication, Engineering and Technology 2015 Kokula Krishna Hari K,Keerthivasan M,D Bhanu,2015-08-10 ICSSCCET 2015 will be the most comprehensive conference focused on the various aspects of advances in Systems Science Management Medical Sciences Communication Engineering Technology Interdisciplinary Research Theory and Technology This Conference provides a chance for academic and industry professionals to discuss recent progress in the area of Interdisciplinary Research Theory and Technology Furthermore we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject The goal of this conference is to bring together the researchers from academia and industry as well as practitioners to share ideas problems and solutions relating to the multifaceted aspects of Interdisciplinary Research Theory and Technology *Apache Sqoop Cookbook* Kathleen Ting,Jarek Jarcec Cecho,2013-07-02 Integrating data from multiple sources is essential in the age of big data but it can be a challenging and time consuming task This handy cookbook provides dozens of ready to use recipes for using Apache Sqoop the command line interface application that optimizes data transfers between relational databases and Hadoop Sqoop is both powerful and bewildering but with this cookbook s problem solution discussion format you ll quickly learn how to deploy and then apply Sqoop in your environment The authors provide MySQL Oracle and PostgreSQL database examples on GitHub that you can easily adapt for SQL Server Netezza Teradata or other relational systems Transfer data from a single database table into your Hadoop ecosystem Keep table data and Hadoop in sync by importing data incrementally Import data from more than one database table Customize transferred data by calling various database functions Export generated processed or backed up data from Hadoop to your database Run Sqoop within Oozie Hadoop s specialized workflow scheduler Load data into Hadoop s data warehouse Hive or database HBase Handle installation connection and syntax issues common to specific database vendors **Big Data for Chimps** Philip (flip) Kromer,Russell Jurney,2015-09-28 Annotation To help you answer big data questions this unique guide shows you how to use simple fun and elegant tools leveraging Apache Hadoop You ll learn how to break problems into efficient data transformations to meet most of your analysis needs **Big Data Analytics** Kim H. Pries,Robert

Dunnigan,2015-02-05 With this book managers and decision makers are given the tools to make more informed decisions about big data purchasing initiatives Big Data Analytics A Practical Guide for Managers not only supplies descriptions of common tools but also surveys the various products and vendors that supply the big data market Comparing and contrasting the dif **R in a Nutshell** Joseph Adler (M.Eng.),2012 If you re considering R for statistical computing and data visualization this book provides a quick and practical guide to just about everything you can do with the open source R language and software environment You ll learn how to write R functions and use R packages to help you prepare visualize and analyze data Author Joseph Adler illustrates each process with a wealth of examples from medicine business and sports Updated for R 2 14 and 2 15 this second edition includes new and expanded chapters on R performance the ggplot2 data visualization package and parallel R computing with Hadoop Get started quickly with an R tutorial and hundreds of examples Explore R syntax objects and other language details Find thousands of user contributed R packages online including Bioconductor Learn how to use R to prepare data for analysis Visualize your data with R s graphics lattice and ggplot2 packages Use R to calculate statistical fests fit models and compute probability distributions Speed up intensive computations by writing parallel R programs for Hadoop Get a complete desktop reference to R MapReduce Design Patterns Donald Miner,Adam Shook,2012-11-21 Until now design patterns for the MapReduce framework have been scattered among various research papers blogs and books This handy guide brings together a unique collection of valuable MapReduce patterns that will save you time and effort regardless of the domain language or development framework you re using Each pattern is explained in context with pitfalls and caveats clearly identified to help you avoid common design mistakes when modeling your big data architecture This book also provides a complete overview of MapReduce that explains its origins and implementations and why design patterns are so important All code examples are written for Hadoop Summarization patterns get a top level view by summarizing and grouping data Filtering patterns view data subsets such as records generated from one user Data organization patterns reorganize data to work with other systems or to make MapReduce analysis easier Join patterns analyze different datasets together to discover interesting relationships Metapatterns piece together several patterns to solve multi stage problems or to perform several analytics in the same job Input and output patterns customize the way you use Hadoop to load or store data A clear exposition of MapReduce programs for common data processing patterns this book is indespensible for anyone using Hadoop Tom White author of Hadoop The Definitive Guide Monitoring with Ganglia Matt Massie,Bernard Li,Brad Nicholes,Vladimir Vuksan,Robert Alexander,Jeff Buchbinder,Frederiko Costa,Alex Dean,Dave Josephsen,Peter Phaal,Daniel Pocock,2012-11-09 Written by Ganglia designers and maintainers this book shows you how to collect and visualize metrics from clusters grids and cloud infrastructures at any scale Want to track CPU utilization from 50 000 hosts every ten seconds Ganglia is just the tool you need once you know how its main components work together This hands on book helps experienced system administrators

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Even more important is the fourth V veracity How accurate is that data in predicting business value Do the results of a big data analysis actually make sense Determining relevant data is key to delivering value from massive amounts of data However big data is defined less by volume which is a constantly moving target than by its ever increasing variety velocity variability and complexity

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