



SCIENTIFIC DATA ANALYSIS WITH HADOOP AND HIVE ON CLOUD PLATFORMS

Hadoop Cluster Deployment

Construct a modern Hadoop data platform effortlessly and gain insights into how to manage clusters efficiently



David Bourbousky

PACKT PUBLISHING

Hadoop Cluster Deployment Danil Zburivsky

Eric Sammer



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Hadoop Cluster Deployment Danil Zburivsky,2013-11 This book is a step by step tutorial filled with practical examples which will show you how to build and manage a Hadoop cluster along with its intricacies This book is ideal for database administrators data engineers and system administrators and it will act as an invaluable reference if you are planning to use the Hadoop platform in your organization It is expected that you have basic Linux skills since all the examples in this book use this operating system It is also useful if you have access to test hardware or virtual machines to be able to follow the examples in the book

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Troubleshooting Ubuntu Server Skanda Bhargav,2015-09-25 Make life at the office easier for server administrators by helping them build resilient Ubuntu server systems About This Book Tackle the issues you come across in keeping your Ubuntu server up and running Build server machines and troubleshoot cloud computing related issues using Open Stack Discover tips and best practices to be followed for minimum maintenance of Ubuntu Server 3 Who This Book Is For This book is for a vast audience of Linux system administrators who primarily work on Debian based systems and spend long hours trying fix issues with the enterprise server Ubuntu is already one of the most popular OSes and this book targets the most common issues that most administrators have to deal with With the right tools and definite solutions you will be able to keep your Ubuntu servers in the pink of health What You Will Learn Deploy packages and their dependencies with repositories Set up your own DNS and network for Ubuntu Server Authenticate and validate users and their access to various systems and services Maintain monitor and optimize your server resources and avoid tremendous load Get to know about processes assigning and changing priorities and running processes in background Optimize your shell with tools and provide users with an improved shell experience Set up separate environments for various services and run them safely in isolation Understand build and deploy OpenStack on your Ubuntu Server In Detail Ubuntu is becoming one of the favorite Linux flavors for many enterprises and is being adopted to a large extent It supports a wide variety of common network systems and the use of standard Internet services including file serving e mail Web DNS and database management A large scale use and implementation of Ubuntu on servers has given rise to a vast army of Linux administrators who battle it out day in and day out to make sure the systems are in the right frame of operation and pre empt any untoward incidents that may result in catastrophes for the businesses using it Despite all these efforts glitches and bugs occur that affect Ubuntu server s network memory application and hardware and also generate cloud computing related

issues using OpenStack This book will help you end to end Right from setting up your new Ubuntu Server to learning the best practices to host OpenStack without any hassles You will be able to control the priority of jobs restrict or allow access users to certain services deploy packages tackle issues related to server effectively and reduce downtime Also you will learn to set up OpenStack and manage and monitor its services while tuning the machine with best practices You will also get to know about Virtualization to make services serve users better Chapter by chapter you will learn to add new features and functionalities and make your Ubuntu server a full fledged production ready system Style and approach This book contains topic by topic discussion in an easy to understand language with loads of examples to help you take care of Ubuntu Server Plenty of screenshots will guide you through a step by step approach *Cloudera Administration Handbook* Rohit Menon,2014-07-18 An easy to follow Apache Hadoop administrator s guide filled with practical screenshots and explanations for each step and configuration This book is great for administrators interested in setting up and managing a large Hadoop cluster If you are an administrator or want to be an administrator and you are ready to build and maintain a production level cluster running CDH5 then this book is for you **Data Intensive Computing Applications for Big Data** Mamta Mittal,Valentina Emilia Balas,D. Jude Hemanth,Raghvendra Kumar,2018-01-15 The book Data Intensive Computing Applications for Big Data discusses the technical concepts of big data data intensive computing through machine learning soft computing and parallel computing paradigms It brings together researchers to report their latest results or progress in the development of the above mentioned areas Since there are few books on this specific subject the editors aim to provide a common platform for researchers working in this area to exhibit their novel findings The book is intended as a reference work for advanced undergraduates and graduate students as well as multidisciplinary interdisciplinary and transdisciplinary research workers and scientists on the subjects of big data and cloud parallel and distributed computing and explains didactically many of the core concepts of these approaches for practical applications It is organized into 24 chapters providing a comprehensive overview of big data analysis using parallel computing and addresses the complete data science workflow in the cloud as well as dealing with privacy issues and the challenges faced in a data intensive cloud computing environment The book explores both fundamental and high level concepts and will serve as a manual for those in the industry while also helping beginners to understand the basic and advanced aspects of big data and cloud computing **Designing Cloud Data Platforms** Danil Zburivsky,Lynda Partner,2021-03-17 In Designing Cloud Data Platforms Danil Zburivsky and Lynda Partner reveal a six layer approach that increases flexibility and reduces costs Discover patterns for ingesting data from a variety of sources then learn to harness pre built services provided by cloud vendors Summary Centralized data warehouses the long time defacto standard for housing data for analytics are rapidly giving way to multi faceted cloud data platforms Companies that embrace modern cloud data platforms benefit from an integrated view of their business using all of their data and can take advantage of advanced analytic practices to drive predictions and as yet unimagined data services

Designing Cloud Data Platforms is a hands on guide to envisioning and designing a modern scalable data platform that takes full advantage of the flexibility of the cloud As you read you ll learn the core components of a cloud data platform design along with the role of key technologies like Spark and Kafka Streams You ll also explore setting up processes to manage cloud based data keep it secure and using advanced analytic and BI tools to analyze it Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Well designed pipelines storage systems and APIs eliminate the complicated scaling and maintenance required with on prem data centers Once you learn the patterns for designing cloud data platforms you ll maximize performance no matter which cloud vendor you use About the book In Designing Cloud Data Platforms Danil Zburivsky and Lynda Partner reveal a six layer approach that increases flexibility and reduces costs Discover patterns for ingesting data from a variety of sources then learn to harness pre built services provided by cloud vendors What s inside Best practices for structured and unstructured data sets Cloud ready machine learning tools Metadata and real time analytics Defensive architecture access and security About the reader For data professionals familiar with the basics of cloud computing and Hadoop or Spark About the author Danil Zburivsky has over 10 years of experience designing and supporting large scale data infrastructure for enterprises across the globe Lynda Partner is the VP of Analytics as a Service at Pythian and has been on the business side of data for over 20 years Table of Contents 1 Introducing the data platform 2 Why a data platform and not just a data warehouse 3 Getting bigger and leveraging the Big 3 Amazon Microsoft Azure and Google 4 Getting data into the platform 5 Organizing and processing data 6 Real time data processing and analytics 7 Metadata layer architecture 8 Schema management 9 Data access and security 10 Fueling business value with data platforms

Data Engineering with Apache Spark, Delta Lake, and Lakehouse

Manoj Kukreja, Danil Zburivsky, 2021-10-22 Understand the complexities of modern day data engineering platforms and explore strategies to deal with them with the help of use case scenarios led by an industry expert in big data Key Features Become well versed with the core concepts of Apache Spark and Delta Lake for building data platforms Learn how to ingest process and analyze data that can be later used for training machine learning models Understand how to operationalize data models in production using curated data Book Description In the world of ever changing data and schemas it is important to build data pipelines that can auto adjust to changes This book will help you build scalable data platforms that managers data scientists and data analysts can rely on Starting with an introduction to data engineering along with its key concepts and architectures this book will show you how to use Microsoft Azure Cloud services effectively for data engineering You ll cover data lake design patterns and the different stages through which the data needs to flow in a typical data lake Once you ve explored the main features of Delta Lake to build data lakes with fast performance and governance in mind you ll advance to implementing the lambda architecture using Delta Lake Packed with practical examples and code snippets this book takes you through real world examples based on production scenarios faced by the author in his 10 years

of experience working with big data Finally you ll cover data lake deployment strategies that play an important role in provisioning the cloud resources and deploying the data pipelines in a repeatable and continuous way By the end of this data engineering book you ll know how to effectively deal with ever changing data and create scalable data pipelines to streamline data science ML and artificial intelligence AI tasks What you will learn Discover the challenges you may face in the data engineering world Add ACID transactions to Apache Spark using Delta Lake Understand effective design strategies to build enterprise grade data lakes Explore architectural and design patterns for building efficient data ingestion pipelines Orchestrate a data pipeline for preprocessing data using Apache Spark and Delta Lake APIs Automate deployment and monitoring of data pipelines in production Get to grips with securing monitoring and managing data pipelines models efficiently Who this book is for This book is for aspiring data engineers and data analysts who are new to the world of data engineering and are looking for a practical guide to building scalable data platforms If you already work with PySpark and want to use Delta Lake for data engineering you ll find this book useful Basic knowledge of Python Spark and SQL is expected

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

[Moving Hadoop to the Cloud](#) Bill Havanki, 2017-07-14 Until recently Hadoop deployments existed on hardware owned and run by organizations Now of course you can acquire the computing resources and network connectivity to run Hadoop clusters in the cloud But there s a lot more to deploying Hadoop to the public cloud than simply renting machines This hands on guide shows developers and systems administrators familiar with Hadoop how to install use and manage cloud born clusters efficiently You ll learn how to architect clusters that work with cloud provider features not just to avoid pitfalls but also to take full advantage of these services You ll also compare the Amazon Google and Microsoft clouds and learn how to set up clusters in each of them Learn how Hadoop clusters run in the cloud the problems they can help you solve and their potential drawbacks Examine the common concepts of cloud providers including compute capabilities networking and security and storage Build a functional Hadoop cluster on cloud infrastructure and learn what the major providers require Explore use cases for high availability

relational data with Hive and complex analytics with Spark Get patterns and practices for running cloud clusters from designing for price and security to dealing with maintenance

Hadoop For Dummies Dirk deRoos,2014-04-14 Let Hadoop For Dummies help harness the power of your data and rein in the information overload Big data has become big business and companies and organizations of all sizes are struggling to find ways to retrieve valuable information from their massive data sets with becoming overwhelmed Enter Hadoop and this easy to understand For Dummies guide Hadoop For Dummies helps readers understand the value of big data make a business case for using Hadoop navigate the Hadoop ecosystem and build and manage Hadoop applications and clusters Explains the origins of Hadoop its economic benefits and its functionality and practical applications Helps you find your way around the Hadoop ecosystem program MapReduce utilize design patterns and get your Hadoop cluster up and running quickly and easily Details how to use Hadoop applications for data mining web analytics and personalization large scale text processing data science and problem solving Shows you how to improve the value of your Hadoop cluster maximize your investment in Hadoop and avoid common pitfalls when building your Hadoop cluster From programmers challenged with building and maintaining affordable scaleable data systems to administrators who must deal with huge volumes of information effectively and efficiently this how to has something to help you with Hadoop

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

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

OpenStack Sahara Essentials Omar Khedher,2016-04-25 Integrate deploy rapidly configure and successfully manage your own big data intensive clusters in the cloud using OpenStack Sahara About This Book A fast paced guide to help you

utilize the benefits of Sahara in OpenStack to meet the Big Data world of Hadoop A step by step approach to simplify the complexity of Hadoop configuration deployment and maintenance Who This Book Is For This book targets data scientists cloud developers and Devops Engineers who would like to become proficient with OpenStack Sahara Ideally this book is well suitable for readers who are familiar with databases Hadoop and Spark solutions Additionally a basic prior knowledge of OpenStack is expected The readers should also be familiar with different Linux boxes distributions and virtualization technology What You Will Learn Integrate and Install Sahara with OpenStack environment Learn Sahara architecture under the hood Rapidly configure and scale Hadoop clusters on top of OpenStack Explore the Sahara REST API to create deploy and manage a Hadoop cluster Learn the Elastic Processing Data EDP facility to execute jobs in clusters from Sahara Cover other Hadoop stable plugins existing supported by Sahara Discover different features provided by Sahara for Hadoop provisioning and deployment Learn how to troubleshoot OpenStack Sahara issues In Detail The Sahara project is a module that aims to simplify the building of data processing capabilities on OpenStack The goal of this book is to provide a focused fast paced guide to installing configuring and getting started with integrating Hadoop with OpenStack using Sahara The book should explain to users how to deploy their data intensive Hadoop and Spark clusters on top of OpenStack It will also cover how to use the Sahara REST API how to develop applications for Elastic Data Processing on Openstack and setting up hadoop or spark clusters on Openstack Style and approach This book takes a step by step approach teaching how to integrate deploy and manage data using OpenStack Sahara It will teach how the OpenStack Sahara is beneficial by simplifying the complexity of Hadoop configuration deployment and maintenance Virtualizing Hadoop George Trujillo,Charles Kim,Steve Jones,Rommel Garcia,Justin Murray,2015-07-14 Plan and Implement Hadoop Virtualization for Maximum Performance Scalability and Business Agility Enterprises running Hadoop must absorb rapid changes in big data ecosystems frameworks products and workloads Virtualized approaches can offer important advantages in speed flexibility and elasticity Now a world class team of enterprise virtualization and big data experts guide you through the choices considerations and tradeoffs surrounding Hadoop virtualization The authors help you decide whether to virtualize Hadoop deploy Hadoop in the cloud or integrate conventional and virtualized approaches in a blended solution First Virtualizing Hadoop reviews big data and Hadoop from the standpoint of the virtualization specialist The authors demystify MapReduce YARN and HDFS and guide you through each stage of Hadoop data management Next they turn the tables introducing big data experts to modern virtualization concepts and best practices Finally they bring Hadoop and virtualization together guiding you through the decisions you ll face in planning deploying provisioning and managing virtualized Hadoop From security to multitenancy to day to day management you ll find reliable answers for choosing your best Hadoop strategy and executing it Coverage includes the following Reviewing the frameworks products distributions use cases and roles associated with Hadoop Understanding YARN resource management HDFS storage and I O Designing data ingestion movement and organization for

modern enterprise data platforms Defining SQL engine strategies to meet strict SLAs Considering security data isolation and scheduling for multitenant environments Deploying Hadoop as a service in the cloud Reviewing the essential concepts capabilities and terminology of virtualization Applying current best practices guidelines and key metrics for Hadoop virtualization Managing multiple Hadoop frameworks and products as one unified system Virtualizing master and worker nodes to maximize availability and performance Installing and configuring Linux for a Hadoop environment

Architecting Modern Data Platforms Jan Kunigk,Ian Buss,Paul Wilkinson,Lars George,2018-12-05 There s a lot of information about big data technologies but splicing these technologies into an end to end enterprise data platform is a daunting task not widely covered With this practical book you ll learn how to build big data infrastructure both on premises and in the cloud and successfully architect a modern data platform Ideal for enterprise architects IT managers application architects and data engineers this book shows you how to overcome the many challenges that emerge during Hadoop projects You ll explore the vast landscape of tools available in the Hadoop and big data realm in a thorough technical primer before diving into Infrastructure Look at all component layers in a modern data platform from the server to the data center to establish a solid foundation for data in your enterprise Platform Understand aspects of deployment operation security high availability and disaster recovery along with everything you need to know to integrate your platform with the rest of your enterprise IT Taking Hadoop to the cloud Learn the important architectural aspects of running a big data platform in the cloud while maintaining enterprise security and high availability

Learning Hadoop 2 Garry Turkington,Gabriele Modena,2015-02-13 If you are a system or application developer interested in learning how to solve practical problems using the Hadoop framework then this book is ideal for you You are expected to be familiar with the Unix Linux command line interface and have some experience with the Java programming language Familiarity with Hadoop would be a plus

Hadoop: The Definitive Guide Tom White,2009-05-29 Hadoop The Definitive Guide helps you harness the power of your data Ideal for processing large datasets the Apache Hadoop framework is an open source implementation of the MapReduce algorithm on which Google built its empire This comprehensive resource demonstrates how to use Hadoop to build reliable scalable distributed systems programmers will find details for analyzing large datasets and administrators will learn how to set up and run Hadoop clusters Complete with case studies that illustrate how Hadoop solves specific problems this book helps you Use the Hadoop Distributed File System HDFS for storing large datasets and run distributed computations over those datasets using MapReduce Become familiar with Hadoop s data and I O building blocks for compression data integrity serialization 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 Use Pig a high level query language for large scale data processing Take advantage of HBase Hadoop s database for structured and semi structured data Learn ZooKeeper a toolkit of coordination primitives for building distributed systems If you have lots of data whether it s gigabytes

or petabytes Hadoop is the perfect solution Hadoop The Definitive Guide is the most thorough book available on the subject Now you have the opportunity to learn about Hadoop from a master not only of the technology but also of common sense and plain talk Doug Cutting Hadoop Founder Yahoo *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 availability Work with HDFS commands file permissions and storage management Move data and use YARN to allocate resources and schedule jobs Manage job workflows with Oozie and Hue Secure monitor log and optimize Hadoop Benchmark and troubleshoot Hadoop **Advanced Hadoop Techniques: A Comprehensive Guide to Mastery** Adam

Jones, 2025-05-13 Unlock the full potential of Hadoop with *Advanced Hadoop Techniques A Comprehensive Guide to Mastery* your essential resource for navigating the intricate complexities and harnessing the tremendous power of the Hadoop ecosystem Designed for data engineers developers administrators and data scientists this book elevates your skills from foundational concepts to the most advanced optimizations necessary for mastery Delve deep into the core of Hadoop unraveling its integral components such as HDFS MapReduce and YARN while expanding your knowledge to encompass critical ecosystem projects like Hive HBase Sqoop and Spark Through meticulous explanations and real world examples *Advanced Hadoop Techniques A Comprehensive Guide to Mastery* equips you with the tools to efficiently deploy manage and optimize Hadoop clusters Learn to fortify your Hadoop deployments by implementing robust security measures to ensure data protection and compliance Discover the intricacies of performance tuning to significantly enhance your data processing and analytics capabilities This book empowers you to not only learn Hadoop but to master sophisticated techniques that

convert vast data sets into actionable insights Perfect for aspiring professionals eager to make an impact in the realm of big data and seasoned experts aiming to refine their craft **Advanced Hadoop Techniques A Comprehensive Guide to Mastery** serves as an invaluable resource Embark on your journey into the future of big data with confidence and expertise your path to Hadoop mastery starts here [Apache Hadoop YARN](#) Arun Murthy,Vinod Vavilapalli,Douglas Eadline,Joseph Niemiec,Jeff Markham,2014-03-14 This book is a critically needed resource for the newly released Apache Hadoop 2.0 highlighting YARN as the significant breakthrough that broadens Hadoop beyond the MapReduce paradigm From the Foreword by Raymie Stata CEO of Altiscale **The Insider's Guide to Building Distributed Big Data Applications with Apache Hadoop YARN** Apache Hadoop is helping drive the Big Data revolution Now its data processing has been completely overhauled Apache Hadoop YARN provides resource management at data center scale and easier ways to create distributed applications that process petabytes of data And now in Apache Hadoop YARN two Hadoop technical leaders show you how to develop new applications and adapt existing code to fully leverage these revolutionary advances YARN project founder Arun Murthy and project lead Vinod Kumar Vavilapalli demonstrate how YARN increases scalability and cluster utilization enables new programming models and services and opens new options beyond Java and batch processing They walk you through the entire YARN project lifecycle from installation through deployment You ll find many examples drawn from the authors cutting edge experience first as Hadoop's earliest developers and implementers at Yahoo and now as Hortonworks developers moving the platform forward and helping customers succeed with it Coverage includes YARN's goals design architecture and components how it expands the Apache Hadoop ecosystem Exploring YARN on a single node Administering YARN clusters and Capacity Scheduler Running existing MapReduce applications Developing a large scale clustered YARN application Discovering new open source frameworks that run under YARN

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