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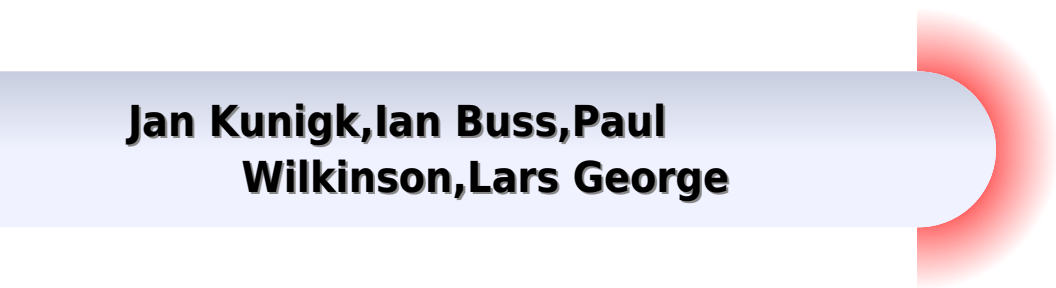
Architecting HBase Applications

A GUIDEBOOK FOR SUCCESSFUL DEVELOPMENT AND DESIGN

Jean-Marc Spaggiari & Kevin O'Dell

Architecting Hbase Applications A Guidebook For Successful Development And Design

**Jan Kunigk, Ian Buss, Paul
Wilkinson, Lars George**



Architecting Hbase Applications A Guidebook For Successful Development And Design:

Architecting HBase Applications Jean-Marc Spaggiari, Kevin O'Dell, 2016-07-18 HBase is a remarkable tool for indexing mass volumes of data but getting started with this distributed database and its ecosystem can be daunting With this hands on guide you ll learn how to architect design and deploy your own HBase applications by examining real world solutions Along with HBase principles and cluster deployment guidelines this book includes in depth case studies that demonstrate how large companies solved specific use cases with HBase Authors Jean Marc Spaggiari and Kevin O Dell also provide draft solutions and code examples to help you implement your own versions of those use cases from master data management MDM and document storage to near real time event processing You ll also learn troubleshooting techniques to help you avoid common deployment mistakes Learn exactly what HBase does what its ecosystem includes and how to set up your environment Explore how real world HBase instances were deployed and put into production Examine documented use cases for tracking healthcare claims digital advertising data management and product quality Understand how HBase works with tools and techniques such as Spark Kafka MapReduce and the Java API Learn how to identify the causes and understand the consequences of the most common HBase issues

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Application Development and Design: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2017-08-11 Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life These applications can be utilized across different technological platforms Application Development and Design Concepts Methodologies Tools and Applications is a comprehensive reference source

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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

HBase in Action Amandeep Khurana,Nick Dimiduk,2012-11-01 Summary HBase in Action has all the knowledge you need to design build and run applications using HBase First it introduces you to the fundamentals of distributed systems and large scale data handling Then you ll explore real world applications and code samples with just enough theory to understand the practical techniques You ll see how to build applications with HBase and take advantage of the MapReduce processing framework And along the way you ll learn patterns and best practices About the Technology HBase is a NoSQL storage system designed for fast random access to large volumes of data It runs on

commodity hardware and scales smoothly from modest datasets to billions of rows and millions of columns About this Book HBase in Action is an experience driven guide that shows you how to design build and run applications using HBase First it introduces you to the fundamentals of handling big data Then you ll explore HBase with the help of real applications and code samples and with just enough theory to back up the practical techniques You ll take advantage of the MapReduce processing framework and benefit from seeing HBase best practices in action Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside When and how to use HBase Practical examples Design patterns for scalable data systems Deployment integration and design Written for developers and architects familiar with data storage and processing No prior knowledge of HBase Hadoop or MapReduce is required Table of Contents PART 1 HBASE FUNDAMENTALS Introducing HBase Getting started Distributed HBase HDFS and MapReduce PART 2 ADVANCED CONCEPTS HBase table design Extending HBase with coprocessors Alternative HBase clients PART 3 EXAMPLE APPLICATIONS HBase by example OpenTSDB Scaling GIS on HBase PART 4 OPERATIONALIZING HBASE Deploying HBase Operations

Hadoop Application Architectures Mark Grover,Ted Malaska,Jonathan Seidman,Gwen Shapira,2015-06-30 Get expert guidance on architecting end to end data management solutions with Apache Hadoop While many sources explain how to use various components in the Hadoop ecosystem this practical book takes you through architectural considerations necessary to tie those components together into a complete tailored application based on your particular use case To reinforce those lessons the book s second section provides detailed examples of architectures used in some of the most commonly found Hadoop applications Whether you re designing a new Hadoop application or planning to integrate Hadoop into your existing data infrastructure Hadoop Application Architectures will skillfully guide you through the process This book covers Factors to consider when using Hadoop to store and model data Best practices for moving data in and out of the system Data processing frameworks including MapReduce Spark and Hive Common Hadoop processing patterns such as removing duplicate records and using windowing analytics Giraph GraphX and other tools for large graph processing on Hadoop Using workflow orchestration and scheduling tools such as Apache Oozie Near real time stream processing with Apache Storm Apache Spark Streaming and Apache Flume Architecture examples for clickstream analysis fraud detection and data warehousing

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 [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

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