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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

**Amandeep Khurana,Nick Dimiduk**



## **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.

**Architecting HBase Applications** Jean-Marc Spaggiari, Kevin O'Dell, 2016-07-18 Lots of HBase books online. HBase guides and HBase mailing lists, forums are available if you need to know how HBase works. But if you want to take a deep dive into use cases, features, and troubleshooting, *Architecting HBase Applications* is the right source for you. With this book, you'll learn a controlled set of APIs that coincide with use case examples and easily deployed use case models, as well as sizing best practices to help jump-start your enterprise application development and deployment.

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**Architecting Hbase Applications** Elliott Edling, 2017-05-31 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.

**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 for the latest scholarly material on trends techniques and uses of various technology applications and examines the benefits and challenges of these computational developments Highlighting a range of pertinent topics such as software design mobile applications and web applications this multi volume book is ideally designed for researchers academics engineers professionals students and practitioners interested in emerging technology applications **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 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 Primer* Deepak Vohra,2016-11-17 Learn the fundamental foundations and concepts of the Apache HBase NoSQL open source database It covers the HBase data model architecture schema design API and administration Apache HBase is the database for the Apache Hadoop framework HBase is a column family based NoSQL database that provides a flexible schema model What You ll Learn Work with the core concepts of HBase Discover the HBase data model schema design and architecture Use the HBase API and administration Who This Book Is For Apache HBase NoSQL database users designers developers and admins

**Hadoop Application Architectures** Mark Grover,2015 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

*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

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 **Learning HBase** Shashwat Shripav,2014-11-25 If you are an administrator or developer who wants to enter the world of Big Data and BigTables and would like to learn about HBase this is the book for you *Hadoop Application Architectures* Mark Grover,Ted Malaska,Jonathan Seidman,Gwen Shapira,2015 Application Development and Design Information Reso Management Association,2017-05-19 Hands-On RESTful API Design Patterns and Best Practices Harihara Subramanian,Pethuru Raj,2019-01-31 Build effective RESTful APIs for enterprise with design patterns and REST framework s out of the box capabilities Key Features Understand advanced topics such as API gateways API securities and cloud Implement patterns programmatically with easy to follow examples Modernize legacy codebase using API connectors layers and microservices Book Description This book deals with the Representational State Transfer REST paradigm which is an architectural style that allows networked devices to communicate with each other over the internet With the help of this book you ll explore the

concepts of service oriented architecture SOA event driven architecture EDA and resource oriented architecture ROA This book covers why there is an insistence for high quality APIs toward enterprise integration It also covers how to optimize and explore endpoints for microservices with API gateways and touches upon integrated platforms and Hubs for RESTful APIs You ll also understand how application delivery and deployments can be simplified and streamlined in the REST world The book will help you dig deeper into the distinct contributions of RESTful services for IoT analytics and applications Besides detailing the API design and development aspects this book will assist you in designing and developing production ready testable sustainable and enterprise grade APIs By the end of the book you ll be empowered with all that you need to create highly flexible APIs for next generation RESTful services and applications What you will learn Explore RESTful concepts including URI HATEOAS and Code on Demand Study core patterns like Statelessness Pagination and Discoverability Optimize endpoints for linked microservices with API gateways Delve into API authentication authorization and API security implementations Work with Service Orchestration to craft composite and process aware services Expose RESTful protocol based APIs for cloud computing Who this book is for This book is primarily for web mobile and cloud services developers architects and consultants who want to build well designed APIs for creating and sustaining enterprise class applications You ll also benefit from this book if you want to understand the finer details of RESTful APIs and their design techniques along with some tricks and tips

Mastering Apache Hbase Cybellium, Unlock the Power of Scalable and Distributed Data Storage with Mastering Apache HBase In the rapidly evolving landscape of data management the ability to efficiently handle massive amounts of data has become an indispensable skill Mastering Apache HBase serves as your definitive guide to mastering one of the most powerful and flexible distributed NoSQL databases Apache HBase Whether you re a seasoned data professional or a newcomer to the world of big data this book equips you with the knowledge and skills needed to harness the full potential of Apache HBase About the Book Mastering Apache HBase takes you on a comprehensive journey through the intricacies of this robust and versatile NoSQL database From the fundamentals of installation and configuration to advanced topics such as performance tuning and integration with other Big Data tools this book covers it all Each chapter is meticulously crafted to provide a deep understanding of the concepts along with practical real world applications Key Features Solid Foundation Build a strong understanding by exploring the core concepts of Apache HBase including its architecture data model and storage components Efficient Data Management Learn how to create tables insert and retrieve data and implement effective data modeling strategies that maximize performance and flexibility Scalability and Distribution Dive into the distributed nature of Apache HBase and discover techniques to scale your cluster horizontally ensuring seamless growth as your data needs expand Advanced Techniques Master advanced topics such as data versioning coprocessors security and backup and recovery enabling you to tackle complex scenarios with confidence Performance Optimization Uncover strategies and best practices for optimizing the performance of your Apache HBase cluster ensuring

your applications run smoothly even at scale Integration with Ecosystem Explore how Apache HBase seamlessly integrates with other Big Data tools like Apache Hadoop Apache Spark and Apache Hive opening up possibilities for data analysis and processing Real World Use Cases Learn through practical examples and use cases from various industries including social media e commerce finance and more to understand how Apache HBase can solve real world data challenges Expert Insights Benefit from the experience of seasoned professionals who provide insights tips and recommendations garnered from their years of working with Apache HBase Who This Book Is For Mastering Apache HBase is designed for data engineers database administrators and anyone involved in managing and analyzing large volumes of data Whether you re a developer looking to expand your skillset or an experienced professional aiming to deepen your understanding of distributed data storage this book is your ultimate resource 2023 Cybellium Ltd All rights reserved [www.cybellium.com](http://www.cybellium.com) *Building Apache HBase Applications* Jonathan Hsieh,2015 In this Building Apache HBase Applications training course expert author Jonathan Hsieh will teach you how to design and build an application using HBase s Java API This course is designed for users that are already familiar with Hadoop You will start by learning how to interact with HBase From there Jonathan will teach you how to build your first application This video tutorial also covers the HBase data life cycle and deploying distributed HBase Finally you will learn about HBase application architectures including HBase application archetypes and basic HBase tuning Once you have completed this computer based training course you will have gained a solid understanding of how to build HBase applications Working files are included allowing you to follow along with the author throughout the lessons Resource description page *Thinking Big* Dinesh Sachdev,2021-01-21 In this book we will be focusing upon following Apache Hadoop and its components like HDFS and YARN We will learn about MapReduce framework which is foundation for many big data processing frameworks technologies We will walk through Apache Hive Apache Pig Apache Flume Also detailing Apache Oozie We will also get an introduction to Apache Sqoop To get a practical overview we would implement a case study to analyze Clickstream data and visualize the reports using Jasper iReport Designer tool Note that this book is written to understand Big Data development The focus will be minimal on Hadoop Cluster Administration and or installing tools technologies We will be going through practical exercises rather than keeping it theoretical It is good to have a basic understanding of programming concepts any programming language This book is designed to help developers learn This book will ensure to keep details simple and practical Thus even if you are a novice to IT by the end of this book you will gain enough knowledge about engineering big data **HBase in Action** Nick Khurana,2012 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. 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. About the Authors: Nick Dimiduk is a Data Architect with experience in social media analytics, digital marketing, and GIS. Amandeep Khurana is a Solutions Architect focused on building HBase-driven solutions.

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