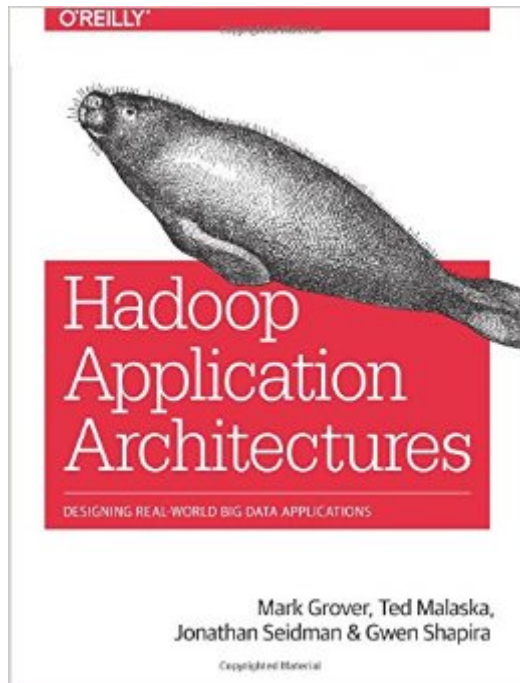


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# Hadoop Application Architectures



## Synopsis

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:

## Book Information

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## Customer Reviews

Hi,I have written a detailed chapter-by-chapter review of this book on[...], the first and last parts of this review are given here. For my review of all chapters, search i-programmer DOT info for STIRK together with the book's title.This book aims to provide best practices and example architectures for Hadoop technologists, how does it fare?This book is written for developers and architects that are already familiar with Hadoop, who wish to learn some of the current best practices, example architectures and complete implementations. It assumes some existing knowledge of Hadoop and its components (e.g. Flume, HBase, Pig, and Hive). Book references are provided for those needing topic refreshers. Additionally, itâ€™s assumed you are familiar with Java programming, SQL and relational databases. It consists of two sections, the first of which has seven chapters and looks at

factors that influence application architectures. The second consists of three chapters, each providing a complete end-to-end case study. Below is a chapter-by-chapter exploration of the topics covered.

### Section I Architectural Considerations for Hadoop Applications

#### Chapter 1 Data Modeling in Hadoop

The chapter opens with a look at storage considerations. Various file types are discussed, and the importance of spilltable compressed data highlighted. Avro and Parquet are generally the preferred file formats for row and columnar based storage respectively. The chapter continues with a look at factors to consider when storing data in HDFS. Directory structures are recommended (e.g. /users/). If you know what tools you intend to use to process the data (e.g.

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