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Practical

Practical

Hadoop

Security

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Hadoop Security

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Hadoop Tutorials -

Kerberos

Authentication -

Part 1 ~~Hadoop~~

~~Security in 4 Easy~~

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~~Steps Overcoming  
the challenges for  
securing Hadoop  
Kerberos~~

~~Authentication~~

~~Hadoop Security~~

~~with Kerberos |~~

~~Kerberos Tutorial |~~

~~Hadoop Admin~~

~~Training~~

Developing and  
Deploying Hadoop  
Security Hadoop  
Security: Seven

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Ways to Kill an  
Elephant

---

Advanced Hadoop  
Security Features

~~Apache Knox~~

~~Hadoop Security~~

~~Swiss Army Knife~~

Hadoop Security :  
Kerberos

Authentication

What Do You Think  
About Hadoop  
Security? Apps are  
dead... what's the

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next big thing?

Coding Interview |  
Software Engineer  
@ Bloomberg (Part  
1) ~~What no one  
tells you about  
coding interviews  
(why leetcode  
doesn't work) How  
to learn to code  
(quickly and  
easily!)~~ 5 Design  
Patterns Every  
Engineer Should

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~~Know Why You  
Shouldn't Learn  
Python In 2021  
Google Coding  
Interview With A  
Competitive  
Programmer  
Kerberos  
Authentication  
Explained | A deep  
dive ~~Testing Mock  
Interview~~ 5 to 9  
Years of  
Experience By~~

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~~Naveen~~

~~AutomationLabs~~

The TOP 3 uses for  
a Raspberry Pi!!

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Introduction to

MapReduce and

Hadoop Security

Big Data In 5

Minutes | What Is

Big Data?|

Introduction To Big

Data |Big Data

Explained

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| Simplilearn Sentry  
Introduction

Securing Your Big  
Data Environment

Hadoop

MapReduce

Example |

MapReduce

Programming |

Hadoop Tutorial

For Beginners |

Edureka Analyzing

Hadoop Metrics for

security using Hive

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Black Hat USA

2010: Hadoop

Security Design -

Just Add Kerberos -

Really 1/2 Hadoop

Projects | Big Data

Real Time Project |

Hadoop Tutorial for

Beginners |

Intellipaat Practical

Hadoop Security

Through practical

application ...

predominately

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Hadoop and related technologies that deal with large amounts of unstructured and semi-structured data. Topics include operating system, architecture, ...

SEIS Course  
Catalog

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## Practical

Topics include practical cryptography, access control, security design principles ... We will cover the most important big data processing frameworks (e.g. Hadoop, spark) and GPU techniques. The ...

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Data Science—MS  
Terms such as Big  
Data, NoSQL,  
Hadoop, Kafka, and  
R are creating a  
storm that is  
engulfing ... IOUG  
speakers explore  
these questions  
and more while  
giving practical  
advice on how to  
learn, use, and ...

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IOUG Track at Data  
Summit 2016

Become a

successful

Snowflake

Technology expert

upon completion of

our Snowflake

Training course.

This Snowflake

training course is

supplemented by

hands-on labs that

help attendees

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Practical

reinforce their ...

Security

Snowflake SnowPro  
Core Certification  
Training

The course covers  
leading-edge  
knowledge of  
Sensor technology,  
Networks, Security,  
Pervasive

Computing ... The  
core concepts of  
distributed



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## Practical

computing will be examined in the context of Hadoop.

Internet of Things  
(Applied Research)

Practical

advantages and shortcomings of several notions of provable security will also be examined ... This course will

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Practical

introduce the basic concepts of the Hadoop system.

Topics include:  
programming ...

Past Coursework  
Requirements

The math behind homomorphic encryption was proven over a decade ago, but computers were

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## Practical

too slow to make the technology practical for every day use. That has changed in recent years, and now ...

### In Homomorphic Encryption We (Must) Trust

The course has a practical component with students executing

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Practical

projects as part of  
teams. IT 513.

Information

Security Security of  
informational ...

The focus of the  
course is Apache  
Hadoop, which is  
an ...

Course

Descriptions

Big Data Processing  
using Google's

Read PDF

Practical

MapReduce &  
Apache Hadoop;  
Machine Learning  
using Keras and  
Data Analytics  
using Python.

During the  
programme, you  
will also gain  
fundamental  
practical skills and  
...

Internet of Things

*Page 21/101*

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Practical

MSc

In addition to the routine testing, i.e., functional, performance, security testing ...

Let's understand the practical reality, or let's call it a real challenge. Enterprises claim that ...

Decoding Digital

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Practical

Assurance: Your  
Pivot to Seamless  
Digital Success  
Compellent  
Technologies is  
now shipping a new  
version of its  
flagship SAN  
system – Storage  
Center 5.4 – with...  
IBM Builds on  
Hadoop with New  
Storage... At the  
Supercomputing

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2010 conference,  
IBM ...

Security

Kevin Komiega

Started as an independent venture of Harpal Singh, the company was a result of a patented technology developed by Singh to deal with one of the practical issues



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that ... IoT Device  
Firmware  
Operating ...

IoT On Demand:  
Bringing IoT to  
Mainstream

These type of skills  
are typically in high  
demand in IT  
business, security  
and health sectors  
... The core  
concepts of

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distributed  
computing will be  
examined in the  
context of Hadoop.  
Students will be ...

Data Science with  
Applied Research  
It is well-known  
that simplifying  
any process  
augments its  
usability and  
widens its scope

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Practical

for practical  
applications ...

However,  
complexity,  
security issues, and  
limited interaction  
are a few ...

Democratizing  
Software

Development with  
Low-Code

The module covers  
the MapReduce

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Practical

programming  
model and the big  
data processing  
platforms Apache  
Hadoop and  
Apache Spark ...

This module will  
combine practical  
exploration of data  
mining techniques  
with ...

Computer Science  
by Research MSc

*Page 28/101*

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Step out of  
everyday execution  
mode this May and  
join us for three  
days of practical  
advice, inspiring  
thought leadership  
... mobile IoT  
applications, and  
cloud security.  
Attend this track to  
navigate ...

Unleash the Power

*Page 29/101*

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of Your Data at  
Data Summit 2019  
"We've launched a  
call for views today  
to help us to create  
practical  
employment  
guidance ...  
According to David  
Emm, principal  
security researcher  
at Kaspersky,  
heightened  
workplace ...

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Hadoop

Security  
ICO consults public  
on personal data in  
employment  
practices  
and the Hadoop  
ecosystem.

QueryPie has  
become an  
increasingly  
popular platform  
for enterprises  
implementing PII  
policies and

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Hadoop  
Security  
complying with  
security standards  
such as PCI-DSS  
and data  
governance ...

Practical Hadoop  
Security is an  
excellent resource  
for administrators  
planning a  
production Hadoop



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## Practical

Hadoop Security deployment who want to secure their Hadoop clusters. A detailed guide to the security options and configuration within Hadoop itself, author Bhushan Lakhe takes you through a comprehensive study of how to implement defined

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## Practical

security within a Hadoop cluster in a hands-on way. You will start with a detailed overview of all the security options available for Hadoop, including popular extensions like Kerberos and OpenSSH, and then delve into a hands-on implementation

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Practical

Hadoop Security  
of user security  
(with illustrated  
code samples) with  
both in-the-box  
features and with  
security extensions  
implemented by  
leading vendors.

No security system  
is complete without  
a monitoring and  
tracing facility, so  
Practical Hadoop  
Security next steps

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## Practical

you through audit logging and monitoring technologies for Hadoop, as well as ready to use implementation and configuration examples--again with illustrated code samples. The book concludes with the most important aspect of

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Practical

Hadoop security – encryption. Both types of encryptions, for data in transit and data at rest, are discussed at length with leading open source projects that integrate directly with Hadoop at no licensing cost.

Practical Hadoop

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Practical

Hadoop Security: Explains importance of security, auditing and encryption within a Hadoop installation

Describes how the leading players have incorporated these features within their Hadoop distributions and provided extensions

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## Practical

Demonstrates how to set up and use these features to your benefit and make your Hadoop installation secure without impacting performance or ease of use

Re-architect relational applications to NoSQL, integrate

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relational database management systems with the Hadoop ecosystem, and transform and migrate relational data to and from Hadoop components. This book covers the best-practice design approaches to re-architecting your relational



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Applications and  
transforming your  
relational data to  
optimize

concurrency,  
security,

denormalization,  
and performance.

Winner of IBM's  
2012 Gerstner

Award for his  
implementation of  
big data and data  
warehouse

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Practical

initiatives and  
author of Practical  
Hadoop Security,  
author Bhushan  
Lakhe walks you  
through the entire  
transition process.  
First, he lays out  
the criteria for  
deciding what  
blend of re-  
architecting,  
migration, and  
integration

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between RDBMS  
and HDFS best  
meets your  
transition

objectives. Then he  
demonstrates how  
to design your  
transition model.

Lakhe proceeds to  
cover the selection  
criteria for ETL  
tools, the  
implementation  
steps for migration

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with SQOOP- and  
Flume-based data  
transfers, and  
transition  
optimization  
techniques for  
tuning partitions,  
scheduling  
aggregations, and  
redesigning ETL.  
Finally, he assesses  
the pros and cons  
of data lakes and  
Lambda

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Hadoop/NoSQL  
Security  
architecture as  
integrative  
solutions and  
illustrates their  
implementation  
with real-world  
case studies.

Hadoop/NoSQL  
solutions do not  
offer by default  
certain relational  
technology  
features such as  
role-based access

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Hadoop  
Security  
control, locking for  
concurrent  
updates, and  
various tools for  
measuring and  
enhancing  
performance.

Practical Hadoop  
Migration shows  
how to use open-  
source tools to  
emulate such  
relational  
functionalities in

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Hadoop ecosystem components. What You'll Learn Decide whether you should migrate your relational applications to big data technologies or integrate them Transition your relational applications to Hadoop/NoSQL platforms in terms

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Practical

of logical design  
and physical  
implementation

Discover RDBMS-to-  
HDFS integration,  
data

transformation,  
and optimization  
techniques

Consider when to  
use Lambda  
architecture and  
data lake solutions

Select and



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Practical

implement Hadoop-  
based components  
and applications to

speed transition,  
optimize integrated  
performance, and  
emulate relational  
functionalities Who

This Book Is For  
Database

developers,  
database  
administrators,  
enterprise

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Practical

Hadoop/NoSQL  
Security  
architects,  
Hadoop/NoSQL  
developers, and IT  
leaders. Its  
secondary  
readership is  
project and  
program managers  
and advanced  
students of  
database and  
management  
information  
systems.

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Practical

Hadoop

Security

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

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Practical

Hadoop 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

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Practical

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

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Practical

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

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## Practical

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

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## Practical

into enterprise-wide security architecture Ensure that security architecture reaches all the way to end-user access

As more corporations turn to Hadoop to store and process their most valuable data, the risks with



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Practical

a potential breach  
of those systems  
increases

exponentially. This  
practical book not  
only shows security  
architects how to  
protect Hadoop  
data from  
unauthorized  
access, but also  
how to limit the  
ability of an  
attacker to corrupt

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Practical

Hadoop  
Security  
or modify data in the event of a security breach.

Security is typically the longest phase of any Hadoop project. In this book, Cloudera professionals Ben Spivey and Joey Echeverria provide a thorough treatment of Hadoop security

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Hadoop  
Security

architecture and implementation to help architects navigate the common challenges of this phase. Example case studies demonstrate how the book's material is immediately applicable to your use cases.

Understand the

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Practical

challenges of  
securing  
distributed  
systems,  
particularly Hadoop  
Use best practices  
for preparing  
Hadoop cluster  
hardware from a  
security standpoint  
Get an overview of  
the Kerberos  
network  
authentication

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Practical

protocol Delve into authorization and accounting principles as they apply to Hadoop 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

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Practical

Hadoop  
Security  
that security  
architecture  
reaches all the way  
to end-user access

Learn how to use  
the Apache Hadoop  
projects, including  
MapReduce, HDFS,  
Apache Hive,  
Apache HBase,  
Apache Kafka,  
Apache Mahout,  
and Apache Solr.

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## Practical

From setting up the environment to running sample applications each chapter in this book is a practical tutorial on using an Apache Hadoop ecosystem project. While several books on Apache Hadoop are available, most are based on the main

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Practical

projects,

MapReduce and

HDFS, and none

discusses the other

Apache Hadoop

ecosystem projects

and how they all

work together as a

cohesive big data

development

platform. What You

Will Learn: Set up

the environment in

Linux for Hadoop



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Practical

projects using  
Cloudera Hadoop  
Distribution CDH 5  
Run a MapReduce  
job Store data with  
Apache Hive, and  
Apache HBase  
Index data in HDFS  
with Apache Solr  
Develop a Kafka  
messaging system  
Stream Logs to  
HDFS with Apache  
Flume Transfer

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Practical

data from MySQL  
database to Hive,  
HDFS, and HBase  
with Sqoop Create  
a Hive table over  
Apache Solr

Develop a Mahout  
User

Recommender

System Who This  
Book Is For: Apache  
Hadoop

developers. Pre-  
requisite

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## Practical

knowledge of Linux and some knowledge of Hadoop is required.

As more corporations turn to Hadoop to store and process their most valuable data, the risk of a potential breach of those systems increases

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## Practical

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

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Hadoop 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-

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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

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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

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Practical

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

Use this practical  
guide to

*Page 72/101*



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Successfully handle the challenges encountered when designing an enterprise data lake and learn industry best practices to resolve issues. When designing an enterprise data lake you often hit a roadblock when you must leave the

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comfort of the relational world and learn the nuances of handling non-relational data.

Starting from sourcing data into the Hadoop ecosystem, you will go through stages that can bring up tough questions such as data

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## Practical

processing, data querying, and security. Concepts such as change data capture and data streaming are covered. The book takes an end-to-end solution approach in a data lake environment that includes data security, high availability, data

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Practical

processing, data streaming, and more. Each chapter includes application of a concept, code snippets, and use case demonstrations to provide you with a practical approach. You will learn the concept, scope, application, and

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Practical

starting point.

What You'll Learn

Get to know data  
lake architecture

and design  
principles

Implement data  
capture and

streaming  
strategies

Implement data  
processing

strategies in  
Hadoop

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Practical

Understand the  
data lake security  
framework and  
availability model  
Who This Book Is  
For Big data  
architects and  
solution architects

Summary Hadoop  
in Practice, Second  
Edition provides  
over 100 tested,  
instantly useful

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Hadoop Security techniques that will help you conquer big data, using Hadoop. This revised new edition covers changes and new features in the Hadoop core architecture, including MapReduce 2. Brand new chapters cover YARN and

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## Practical

integrating Kafka, Impala, and Spark SQL with Hadoop. You'll also get new and updated techniques for Flume, Sqoop, and Mahout, all of which have seen major new versions recently. In short, this is the most practical, up-to-date coverage of



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Hadoop available  
anywhere.

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print book includes  
a free eBook in  
PDF, Kindle, and  
ePub formats from  
Manning

Publications. About  
the Book It's  
always a good time  
to upgrade your  
Hadoop skills!

Hadoop in Practice,

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Practical

Second Edition

provides a collection of 104 tested, instantly useful techniques for analyzing real-time streams, moving data securely, machine learning, managing large-scale clusters, and taming big data using Hadoop. This

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## Practical

completely revised  
edition covers  
changes and new  
features in Hadoop  
core, including  
MapReduce 2 and  
YARN. You'll pick  
up hands-on best  
practices for  
integrating Spark,  
Kafka, and Impala  
with Hadoop, and  
get new and  
updated

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## Practical

techniques for the latest versions of Flume, Sqoop, and Mahout. In short, this is the most practical, up-to-date coverage of Hadoop available. Readers need to know a programming language like Java and have basic familiarity with

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Practical

Hadoop. What's  
Inside Thoroughly  
updated for  
Hadoop 2 How to  
write YARN  
applications  
Integrate real-time  
technologies like  
Storm, Impala, and  
Spark Predictive  
analytics using  
Mahout and RR  
Readers need to  
know a

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Practical

Hadoop  
Security

programming  
language like Java  
and have basic  
familiarity with  
Hadoop. About the  
Author Alex  
Holmes works on  
tough big-data  
problems. He is a  
software engineer,  
author, speaker,  
and blogger  
specializing in large-  
scale Hadoop

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Practical

projects. Table of  
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BACKGROUND AND  
FUNDAMENTALS  
Hadoop in a  
heartbeat  
Introduction to  
YARN PART 2 DATA  
LOGISTICS Data ser  
ialization—working  
with text and  
beyond Organizing  
and optimizing  
data in HDFS

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Moving data into  
and out of Hadoop  
PART 3 BIG DATA  
PATTERNS Applying  
MapReduce  
patterns to big  
data Utilizing data  
structures and  
algorithms at scale  
Tuning, debugging,  
and testing PART 4  
BEYOND  
MAPREDUCE SQL  
on Hadoop Writing



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Practical

a YARN application

Security

The go-to  
guidebook for  
deploying Big Data  
solutions

with Hadoop

Today's enterprise  
architects need to  
understand how  
the

Hadoop frameworks  
and APIs fit  
together, and how

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they can be integrated to deliver real-world solutions. This book is a practical, detailed guide to building and implementing those solutions, with code-level instruction in the popular Wrox tradition. It covers storing data with

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HDFS and Hbase,  
processing data  
with MapReduce,  
and  
automating data  
processing with  
Oozie. Hadoop  
security, running  
Hadoop  
with Amazon Web  
Services, best  
practices, and  
automating  
Hadoop processes

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Hadoop Security

in real time are also covered in depth. With in-depth code examples in Java and XML and the latest on recent additions to the Hadoop ecosystem, this complete resource also covers the use of APIs, exposing their inner workings

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and allowing  
architects and  
developers to  
better leverage and  
customizethem.

The ultimate guide  
for developers,  
designers, and  
architectswho need  
to build and deploy  
Hadoop  
applications Covers  
storing and  
processing data

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Practical

with various technologies, automating data processing, Hadoop security, and delivering real-time solutions

Includes detailed, real-world

examples and code-level guidelines

Explains when, why, and how to use these tools effectively

Written

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by a team of Hadoop experts in the programmer-to-programmer Wrox style Professional Hadoop Solutions is the reference enterprise architects and developers need to maximize the power of Hadoop.

Dive into the world

*Page 95/101*

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Practical

of SQL on Hadoop  
and get the most  
out of your Hive  
data warehouses.  
This book is your  
go-to resource for  
using Hive: authors  
Scott Shaw, Ankur  
Gupta, David  
Kjerrumgaard, and  
Andreas Francois  
Vermeulen take  
you through  
learning HiveQL,



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## Practical

the SQL-like language specific to Hive, to analyze, export, and massage the data stored across your Hadoop environment. From deploying Hive on your hardware or virtual machine and setting up its initial configuration to learning how

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## Practical

Hive interacts with Hadoop, MapReduce, Tez and other big data technologies, Practical Hive gives you a detailed treatment of the software. In addition, this book discusses the value of open source software, Hive performance

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## Practical

tuning, and how to leverage semi-structured and unstructured data.

What You Will

Learn Install and configure Hive for new and existing datasets Perform DDL operations

Execute efficient

DML operations

Use tables,

partitions, buckets,

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Practical

and user-defined functions Discover performance tuning tips and Hive best practices Who This Book Is For Developers, companies, and professionals who deal with large amounts of data and could use software that can efficiently manage

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large volumes of input. It is assumed that readers have the ability to work with SQL.

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