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**access codes, or print
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**may come packaged
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Hadoop

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Handbook and

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Administration,

leading Hadoop

administrator Sam

R. Alapati brings

together

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knowledge for

creating,

configuring,

securing, managing,

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**and optimizing
production Hadoop
clusters in any
environment.**

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experience with large-
scale Hadoop
administration,
Alapati integrates
action-oriented
advice with carefully
researched
explanations of both**

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skills you learn here
will be indispensable
no matter what**

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you use or what**

**Hadoop applications
you run. Understand**

Hadoop's

**architecture from an
administrator's**

standpoint Create

simple and fully

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Run MapReduce and

Spark applications in

a Hadoop cluster

Manage and protect

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high availability

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permissions, and

storage management

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YARN to allocate

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schedule jobs

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workflows with

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and troubleshoot

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helping drive the Big

Data revolution.

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technical leaders
show you how to
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applications and
adapt existing code
to fully leverage
these revolutionary
advances." -- From
the Amazon
If you are ready to
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processing large
datasets, this**

**practical book takes
you step by step
through the
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Mahmoud Parsian

covers basic design

patterns,

optimization

techniques, and data

mining and machine

learning solutions

for problems in

bioinformatics,

genomics, statistics,

and social network

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overview of

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analysis for a large

set of transactions

Data mining

algorithms (K-

means, KNN, and

Naive Bayes) Using

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sequence DNA and
RNA Naive Bayes
theorem and Markov
chains for data and
market prediction
Recommendation
algorithms and
pairwise document
similarity Linear
regression, Cox
regression, and
Pearson correlation**

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**Allelic frequency and
mining DNA Social
network analysis
(recommendation
systems, counting
triangles, sentiment
analysis)**

**This book is an
example-based
tutorial that deals
with Optimizing
Hadoop for
MapReduce job**

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performance. If you

are a Hadoop

administrator,

developer,

MapReduce user, or

beginner, this book

is the best choice

available if you wish

to optimize your

clusters and

applications. Having

prior knowledge of

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applications is not

necessary, but will

help you better

understand the

concepts and

snippets of

MapReduce class

template code.

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Algorithms and

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Systems**

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MapReduce

Apache Hadoop

YARN

The Big Ideas

Behind Reliable,

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Maintainable

Systems

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Data is at the center of many challenges in system design today.

Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including

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NoSQL datastores,

stream or batch

processors, and

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for your application?

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buzzwords? In this

practical and

comprehensive guide,

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architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the

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strengths and

weaknesses of

different tools

Navigate the trade-offs

around consistency,

scalability, fault

tolerance, and

complexity Understand

the distributed systems

research upon which

modern databases are

built Peek behind the

scenes of major online

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*services, and learn
from their architectures*

*Ready to unlock the
power of your data?*

*With this
comprehensive guide,
you'll learn how to
build and maintain
reliable, scalable,
distributed systems with
Apache Hadoop. This
book is ideal for
programmers looking*

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*to analyze datasets of
any size, and for*

administrators who

want to set up and run

Hadoop clusters. You'll

find illuminating case

studies that

demonstrate how

Hadoop is used to solve

specific problems. This

third edition covers

recent changes to

Hadoop, including

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*material on the new
MapReduce API, as
well as MapReduce 2
and its more flexible*

execution model

(YARN). Store large

datasets with the

Hadoop Distributed

File System (HDFS)

Run distributed

computations with

MapReduce Use

Hadoop's data and I/O

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compression, data
integrity, serialization
(including Avro), and*

*persistence Discover
common pitfalls and
advanced features for
writing real-world*

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*Design, build, and
administer a dedicated
Hadoop cluster—or*

run Hadoop in the

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relational databases*

into HDFS, using

Sqoop Perform large-

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with the Pig query

language Analyze

datasets with Hive,

Hadoop's data

warehousing system

Take advantage of

HBase for structured

and semi-structured

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*data, and ZooKeeper
for building distributed
systems*

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Professionals,

Businesspeople, and

Students Demand is

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professionals who can

solve real data science

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and Spark. Practical*

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bring together

everything you need:

high-level concepts,

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*deep-dive techniques,
real-world use cases,
practical applications,
and hands-on tutorials.*

*The authors introduce
the essentials of data
science and the modern
Hadoop ecosystem,
explaining how
Hadoop and Spark
have evolved into an
effective platform for
solving data science*

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problems at scale. In addition to

comprehensive

application coverage,

the authors also

provide useful

guidance on the

important steps of data

ingestion, data

munging, and

visualization. Once the

groundwork is in place,

the authors focus on

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*specific applications,
including machine*

learning, predictive

modeling for sentiment

analysis, clustering for

document analysis,

anomaly detection, and

natural language

processing (NLP). This

guide provides a strong

technical foundation

for those who want to

do practical data

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science, and also

presents business-

driven guidance on

how to apply Hadoop

and Spark to optimize

ROI of data science

initiatives. Learn What

data science is, how it

has evolved, and how

to plan a data science

career How data

volume, variety, and

velocity shape data

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science use cases

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ecosystem, including

HDFS, MapReduce,

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quality, preprocessing,

preparation, and

modeling Visualization:

surfacing insights from

huge data sets Machine

learning: classification,

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and anomaly detection*

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Cluster analysis and

similarity functions

Large-scale anomaly

detection NLP:

applying data science

to human language

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about cloud computing

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Microsoft's Azure
quickly? Read this
book! It gives you just
enough info on the big
picture and is filled
with key terminology so
that you can join the
discussion on cloud
architecture.*

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Manage Cloud*

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Ubuntu Server

Hadoop Operations

Designing Data-

Intensive Applications

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***by data-driven
methods: access
to large
amounts of data
has generated
new insights
and opened
exciting new
opportunities
in commerce,
science, and
computing
applications.***

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Processing the enormous quantities of data necessary for these advances

requires large clusters, making distributed computing

paradigms more crucial than

essential

to modern data science

and big data analytics

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ever. MapReduce

is a

programming

model for

expressing

distributed

computations on

massive

datasets and an

execution

framework for

large-scale

data processing

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on clusters of commodity servers. The programming model provides an easy-to-understand abstraction for designing scalable algorithms, while the execution

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***framework
transparently
handles many
system-level
details,
ranging from
scheduling to
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to fault
tolerance. This
book focuses on
MapReduce
algorithm***

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design, with an

emphasis on

text processing

algorithms

common in

natural

language

processing,

information

retrieval, and

machine

learning. We

introduce the

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notion of

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design

patterns, which

represent

general

reusable

solutions to

commonly

occurring

problems across

a variety of

problem

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domains. This book not only intends to help the reader

"think in MapReduce", but also discusses limitations of the programming model as well.

This volume is a printed version of a

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work that

appears in the

Synthesis

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of Engineering

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different data

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***production
engineers will
learn how to
manage, use,
and even
develop with
Trino.
Initially
developed by
Facebook, open
source Trino is
now used by
Netflix,***

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***Airbnb,
LinkedIn,
Twitter, Uber,
and many other
companies. Matt
Fuller, Manfred
Moser, and
Martin Traverso
show you how a
single Trino
query can
combine data
from multiple***

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***sources to
allow for
analytics
across your
entire
organization.
Get started:
Explore Trino's
use cases and
learn about
tools that will
help you
connect to***

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Learn Trino's internal workings,
including how to connect to
and query data sources with
support for SQL statements,
operators, functions, and***

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more Put Trino

in production:

Secure Trino,

monitor

workloads, tune

queries, and

connect more

applications;

learn how other

organizations

apply Trino

Apache Mahout

is a scalable

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machine

learning

library with

algorithms for

clustering,

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ions. It

empowers users

to analyze

patterns in

large, diverse,

and complex

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***datasets faster
and more***

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scalably. This

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book is an all-

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inclusive guide

to analyzing

large and

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datasets using

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simply, in

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the fundamental

concepts of

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***Apache Mahout,
this book
guides you
through Apache
Mahout's
implementations
of machine
learning
techniques
including
classification,
clustering, and
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***best practices
are given for
each technique.
Finally, you
will learn
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visualization
techniques for
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to bring your
data to life.
Filled with
practical, step-***

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instructions
and clear
explanations
for the most
important and
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This is a Packt
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guide, which
provides
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clear recipes***

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for getting started with Hadoop. This book is for big data enthusiasts and would-be Hadoop programmers. It is also meant for Java programmers who either have not worked with

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***Hadoop at all,
or who know***

Hadoop and

MapReduce but

are not sure

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Summary Modern data science solutions need to be clean, easy to read, and scalable. In Mastering Large Datasets

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with Python,

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author J.T.

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teaches you

how to take a

small project

and scale it

up using a

functionally

influenced

approach to

Python coding.

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methods and
built-in
Python tools
that lend
themselves to
clarity and
scalability,
like the high-
performing
parallelism
method, as*

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that allow for

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teaches you to

write code

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datasets of

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*sized datasets
that teach you
to parallelize
data analysis*

*by breaking
large tasks
into smaller
ones that can
run simultaneo
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then scale
those same*

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dustrial-sized
datasets on a
cluster of
cloud servers.*

*With the map
and reduce
paradigm
firmly in
place, you'll
explore tools
like Hadoop*

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*and PySpark to
efficiently
process
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distributed
datasets,
speed up decis
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with machine
learning, and
simplify your
data storage*

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T. Wolohan is
a lead data
scientist at
Booz Allen
Hamilton, and
a PhD
researcher at*

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| Accelerating
large dataset
work: Map and
parallel
computing 3 |*

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complex transf
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Processing
large datasets
with lazy
workflows 5 ;
Accumulation
operations
with reduce 6*

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map and reduce
with advanced
parallelizatio
n PART 2 7 |*

*Processing
truly big
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11 | Large

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Elastic
MapReduce
Data is
arriving*

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*faster than
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process it and
the overall
volumes keep
growing at a
rate that
keeps you
awake at
night. Hadoop
can help you
tame the data*

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beast.

*Effective use
of Hadoop*

however

requires a

mixture of

programming,

design, and

system

administration

skills.

"Hadoop

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*Beginner's
Guide" removes
the mystery*

from Hadoop,

presenting

Hadoop and

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technologies

with a focus

on building

working

systems and

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getting the

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so when it

makes sense.

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*and keeping
the system
running as the
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the book gives
the
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needed to
effectively
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solve real
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installing and

configuring

Hadoop, the

book explains

how to develop

applications,

maintain the

system, and

how to use

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additional products to integrate with other systems. While learning different ways to develop applications to run on Hadoop the book also covers tools

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*such as Hive,
Sqoop, and
Flume that
show how*

*Hadoop can be
integrated
with*

*relational
databases and
log*

*collection. In
addition to*

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performance of

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Engine for
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for analytics
solutions to
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outcomes. This

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topics to

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platform, the

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portfolio, and

selected third-

party tools to

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data analytic

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install,

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analytic
workloads on
IBM POWER8. In
addition, this
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delivers
documentation
to complement
available IBM
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analytic
needs. This*

*publication
strengthens
the position
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solutions with
a well-defined*

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virtualized

environment so

that customers

have a planned

foundation for

security,

scaling,

capacity,

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*resilience,
and
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for analytics
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*This book is
targeted at
technical
professionals
(analytics
consultants,
technical*

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*support staff,
IT Architects,
and IT*

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that are

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for each step

and

configuration.

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great for administrators interested in setting up and managing a large Hadoop cluster. If you are an administrator, or want to be an administrator,

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and maintain a
production-
level cluster
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be followed

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maintenance of

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3 Who This

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This book is

for a vast

audience of

Linux system

administrators

who primarily

work on Debian-

based systems

and spend long

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hours trying

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fix issues

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is already one

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popular OSes

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targets the

most common

issues that

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most

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have to deal

with. With the

right tools

and definite

solutions, you

will be able

to keep your

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in the pink of

health. What

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users and

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enterprises

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and is being

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large extent.

It supports a

wide variety

of common

network

systems and

the use of

standard

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mail, Web,

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management. A

large scale

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implementation

of Ubuntu on

servers has

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given rise to
a vast army of
Linux

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administrators
who battle it
out day in and
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systems are in
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incidents that

may result in

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Despite all

these efforts,

glitches and

bugs occur

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server's

network,

memory,

application,

and hardware

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OpenStack.

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to end. Right

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hassles. You
will be able
to control the
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jobs, restrict
or allow

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to certain

services,

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up OpenStack,

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deployment,

operations, or

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computing,

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fication,

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filtering with

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Hadoop is becoming the de facto standard for truly large-scale data processing in the data center. Eric Sammer, Principal Solution

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programming

paradigm instead of

mixing and

matching tools like

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MapReduce, this is also a comprehensive reference for developers and system admins who want to get up to speed using Hadoop.

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teaches readers

how to use Hadoop

and write

MapReduce

programs. The

intended readers

are programmers,

architects, and

project managers

who have to

process large

amounts of data

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offline. Hadoop in Action will lead the reader from obtaining a copy of Hadoop to setting it up in a cluster and writing data analytic programs. The book begins by making the basic idea of Hadoop and MapReduce easier to grasp by applying

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the default Hadoop installation to a few easy-to-follow tasks, such as analyzing changes in word frequency across a body of documents. The book continues through the basic concepts of MapReduce applications developed using

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numerous examples of Hadoop in action.

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practices of

programming

MapReduce.

MapReduce is a

complex idea both

conceptually and in

its implementation,

and Hadoop users

are challenged to

learn all the knobs

and levers for

running Hadoop.

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This book takes you beyond the mechanics of running Hadoop, teaching you to write meaningful programs in a MapReduce framework. This book assumes the reader will have a basic familiarity with Java, as most code

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examples will be
written in Java.

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Familiarity with
basic statistical
concepts (e.g.
histogram,

correlation) will help
the reader

appreciate the more
advanced data

processing

examples. Purchase

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comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

If you are a system or application developer interested in learning how to solve practical problems using the Hadoop framework,

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Existing machine learning techniques like the decision tree (a hierarchical

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approach), random forest (an ensemble hierarchical approach), and deep learning (a layered approach) are highly suitable for the system that can handle such problems. This book helps

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readers,

especially

students and

newcomers to the

field of big data

and machine

learning, to gain a

quick

understanding of

the techniques

and technologies;

therefore, the

theory, examples,

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and programs
(Matlab and R)
presented in this
book have been
simplified,
hardcoded,
repeated, or
spaced for
improvements.

They provide
vehicles to test
and understand
the complicated

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concepts of various topics in the field. It is expected that the readers adopt these programs to experiment with the examples, and then modify or write their own programs toward advancing their

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knowledge for solving more complex and challenging problems. The presentation format of this book focuses on simplicity, readability, and dependability so that both undergraduate

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and graduate students as well as new researchers, developers, and practitioners in this field can easily trust and grasp the concepts, and learn them effectively. It has been written to

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reduce the mathematical complexity and help the vast majority of readers to understand the topics and get interested in the field. This book consists of four parts, with the total of 14

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chapters. The first part mainly focuses on the topics that are needed to help analyze and understand data and big data. The second part covers the topics that can explain the systems required for

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processing big data. The third part presents the topics required to understand and select machine learning techniques to classify big data. Finally, the fourth part concentrates on the topics that explain the

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data using Java,
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tools for building
enterprise level
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object-oriented
codes Extensive
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compliant big data tools like apache spark, Hadoop, etc. Who

This Book Is For

This book is for Java developers who are looking to perform data analysis in production environment.

Those who wish

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to implement
data analysis in
their Big data
applications will
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from simple
analytic tasks on
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analysis Create
charts in order to

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data See various
real-world
datasets In Detail
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case studies such
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analysis on a
tweet dataset,
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on a movielens
dataset, customer
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an ecommerce dataset, and graph analysis on actual flights dataset. This book is an end-to-end guide to implement analytics on big data with Java. Java is the de facto language for major big data

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environments,
including Hadoop.

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This book will
teach you how to
perform analytics
on big data with p
roduction-friendly
Java. This book
basically divided
into two sections.

The first part is
an introduction
that will help the

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readers get acquainted with big data environments, whereas the second part will contain a hardcore discussion on all the concepts in analytics on big data. It will take you from data

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analysis and data
visualization to
the core concepts
and advantages
of machine
learning, real-life
usage of
regression and
classification
using Naive
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discussion on the
concepts of

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clustering, and a review of simple neural networks on big data using deepLearning4j or plain Java Spark code. This book is a must-have book for Java developers who want to start learning big data analytics and

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want to use it in
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content. Each
chapter is a self-
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competency in

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real world case

studies to give

ideas of real

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progress,

controlling jobs,

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recipes for HDFS

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four parts: the complete features of Apache Pig; integration with other tools; how to solve complex business problems; and optimization of tools. You'll discover topics such as MapReduce and why it cannot meet

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every business need;

the features of Pig

Latin such as data

types for each load,

store, joins, groups,

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working with Oozie.

You'll also see how

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to extend the framework by writing UDFs and custom load, store, and filter functions. Finally you'll cover different optimization techniques such as gathering statistics about a Pig script, joining strategies,

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parallelism, and the
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code • Solve

different use cases

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developers, and big

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framework have

been scattered

among various

research papers,

blogs, and books.

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brings together a

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architecture. This
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other systems, or to
make MapReduce
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patterns: analyze
different datasets
together to discover
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multi-stage

problems, or to

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same job Input and

output patterns:

customize the way

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embedding,

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multiplayer role-

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Holmes works on

tough big-data

problems. He is

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a software

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Hadoop projects.

Table of

Contents PART 1

BACKGROUND AND

FUNDAMENTALS

Hadoop in a

heartbeat

Introduction to

Download File

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Mapreduce

Patterns Hadoop

Essentials How To

Perera Umash

**YARN PART 2 DATA
LOGISTICS Data s
erialization-wor
king with text
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**Organizing and
optimizing data
in HDFS Moving
data into and
out of Hadoop**

**PART 3 BIG DATA
PATTERNS**

**Applying
MapReduce**

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patterns to big
data Utilizing

data structures To

and algorithms

at scale Tuning,

debugging, and

testing PART 4

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SQL on Hadoop

Writing a YARN

application

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Data enthusiast

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an extensive
discussion of
the state of the
art, with
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considerations
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applications and

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format to

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