



Mastering Mesos

Dipa Dubhashi, Akhil Das

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Key Features

- Master the architecture of Mesos and intelligently distribute your task across clusters of machines
- Explore a wide range of tools and platforms that Mesos works with
- This real-world comprehensive and robust tutorial will help you become an expert

Book Description

Apache Mesos is open source cluster management software that provides efficient resource isolations and resource sharing distributed applications or frameworks.

This book will take you on a journey to enhance your knowledge from amateur to master level, showing you how to improve the efficiency, management, and development of Mesos clusters. The architecture is quite complex and this book will explore the difficulties and complexities of working with Mesos.

We begin by introducing Mesos, explaining its architecture and functionality. Next, we provide a comprehensive overview of Mesos features and advanced topics such as high availability, fault tolerance, scaling, and efficiency. Furthermore, you will learn to set up multi-node Mesos clusters on private and public clouds.

We will also introduce several Mesos-based scheduling and management frameworks or applications to enable the easy deployment, discovery, load balancing, and failure handling of long-running services. Next, you will find out how a Mesos cluster can be easily set up and monitored using the standard deployment and configuration management tools.

This advanced guide will show you how to deploy important big data processing frameworks such as Hadoop, Spark, and Storm on Mesos and big data storage frameworks such as Cassandra, Elasticsearch, and Kafka.

What you will learn

- Understand the Mesos architecture
- Manually spin up a Mesos cluster on a distributed infrastructure
- Deploy a multi-node Mesos cluster using your favorite DevOps
- See the nuts and bolts of scheduling, service discovery, failure handling, security, monitoring, and debugging in an enterprise-grade, production cluster deployment
- Use Mesos to deploy big data frameworks, containerized applications, or even custom build your own applications effortlessly

About the Author

Dipa Dubhashi is an alumnus of the prestigious Indian Institute of Technology and heads product management at Sigmoid. His prior experience includes consulting with ZS Associates besides founding his own start-up. Dipa specializes in envisioning enterprise big data products, developing their roadmaps, and

managing their development to solve customer use cases across multiple industries. He advises several leading start-ups as well as Fortune 500 companies about architecting and implementing their next-generation big data solutions. Dipa has also developed a course on Apache Spark for a leading online education portal and is a regular speaker at big data meetups and conferences.

Akhil Das is a senior software developer at Sigmoid primarily focusing on distributed computing, real-time analytics, performance optimization, and application scaling problems using a wide variety of technologies such as Apache Spark and Mesos, among others. He contributes actively to the Apache Spark project and is a regular speaker at big data conferences and meetups, MesosCon 2015 being the most recent one.

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