YARN Essentials

Amol Fasale, Nirmal Kumar

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A comprehensive, hands-on guide to install, administer, and configure settings in YARN

About This Book

- Learn the inner workings of YARN and how its robust and generic framework enables optimal resource utilization across multiple applications
- Get to grips with single and multi-node installation, administration, and real-time distributed application development
- A step-by-step self-learning guide to help you perform optimal resource utilization in a cluster

Who This Book Is For

If you have a working knowledge of Hadoop 1.x but want to start afresh with YARN, this book is ideal for you. You will be able to install and administer a YARN cluster and also discover the configuration settings to fine-tune your cluster both in terms of performance and scalability. This book will help you develop, deploy, and run multiple applications/frameworks on the same shared YARN cluster.

What You Will Learn

- Understand how existing MapReduce applications can run on top of YARN and how they are backward compatible
- Explore the YARN concepts, terminologies, architecture, key components, and interaction between the components
- Set up a standalone and multi-node clustered YARN environment
- Design, develop, and run different frameworks such as MapReduce, Apache Storm, Apache Tez, and Giraffe on top of YARN
- Get to grips with the built-in support for multitenancy in YARN
- Discover the motivation behind YARN's architecture design, implementations, and why YARN was needed
- Learn how failures at each level are gracefully handled by the new framework to achieve fault tolerance and scalability

In Detail

YARN is the next generation generic resource platform used to manage resources in a typical cluster and is designed to support multitenancy in its core architecture. As optimal resource utilization is central to the design of YARN, learning how to fully utilize the available fine-grained resources (RAM, CPU cycles, and so on) in the cluster becomes vital.

This book is an easy-to-follow, self-learning guide to help you start working with YARN. Beginning with an overview of YARN and Hadoop, you will dive into the pitfalls of Hadoop 1.x and how YARN takes us to the next level. You will learn the concepts, terminology, architecture, core components, and key interactions,

and cover the installation and administration of a YARN cluster as well as learning about YARN application development with new and emerging data processing frameworks.

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From reader reviews:

Gregory Howard:

Playing with family in a very park, coming to see the sea world or hanging out with friends is thing that usually you might have done when you have spare time, then why you don't try thing that really opposite from that. A single activity that make you not sensation tired but still relaxing, trilling like on roller coaster you have been ride on and with addition of knowledge. Even you love YARN Essentials, you could enjoy both. It is good combination right, you still wish to miss it? What kind of hang type is it? Oh come on its mind hangout fellas. What? Still don't obtain it, oh come on its known as reading friends.

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This YARN Essentials is great e-book for you because the content which can be full of information for you who also always deal with world and get to make decision every minute. That book reveal it information accurately using great plan word or we can point out no rambling sentences within it. So if you are read this hurriedly you can have whole facts in it. Doesn't mean it only provides you with straight forward sentences but tricky core information with beautiful delivering sentences. Having YARN Essentials in your hand like obtaining the world in your arm, data in it is not ridiculous one. We can say that no reserve that offer you world within ten or fifteen second right but this publication already do that. So , this is certainly good reading book. Hi Mr. and Mrs. busy do you still doubt that?

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