Apache Hadoop YARN: Moving beyond MapReduce and Batch Processing with Apache Hadoop 2 (Addison-Wesley Data & Analytics)

Arun Murthy, Vinod Vavilapalli, Douglas Eadline, Joseph Niemiec, Jeff Markham

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"This book is a critically needed resource for the newly released Apache Hadoop 2.0, highlighting YARN as the significant breakthrough that broadens Hadoop beyond the MapReduce paradigm."
—From the Foreword by **Raymie Stata, CEO of Altiscale**

The Insider's Guide to Building Distributed, Big Data Applications with Apache Hadoop™ YARN

Apache Hadoop is helping drive the Big Data revolution. Now, its data processing has been completely overhauled: Apache Hadoop YARN provides resource management at data center scale and easier ways to create distributed applications that process petabytes of data. And now in *Apache Hadoop™ YARN,* **two Hadoop technical leaders show you how to develop new applications and adapt existing code to fully leverage these revolutionary advances.**

YARN project founder Arun Murthy and project lead Vinod Kumar Vavilapalli demonstrate how YARN increases scalability and cluster utilization, enables new programming models and services, and opens new options beyond Java and batch processing. They walk you through the entire YARN project lifecycle, from installation through deployment.

You'll find many examples drawn from the authors' cutting-edge experience—first as Hadoop's earliest developers and implementers at Yahoo! and now as Hortonworks developers moving the platform forward and helping customers succeed with it.

Coverage includes

- YARN's goals, design, architecture, and components—how it expands the Apache Hadoop ecosystem
- Exploring YARN on a single node
- Administering YARN clusters and Capacity Scheduler
- Running existing MapReduce applications
- Developing a large-scale clustered YARN application
- Discovering new open source frameworks that run under YARN

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