



# HDP Operations: Hadoop Administration 1

#### Overview

This course is designed for administrators who will be managing the Hortonworks Data Platform (HDP) 2.3 with Ambari. It covers installation, configuration, and other typical cluster maintenance tasks.

### Duration

4 days

## **Target Audience**

IT administrators and operators responsible for installing, configuring and supporting an HDP 2.3 deployment in a Linux environment using Ambari.

## Hands-On Labs

- Introduction to the Lab Environment
- Performing an Interactive Ambari HDP Cluster Installation
- Configuring Ambari Users and Groups
- Managing Hadoop Services
- Using HDFS Files and Directories
- Using WebHDFS
- Configuring HDFS ACLs
- Managing HDFS
- Managing HDFS Quotas
- Configuring HDFS Transparent Data Encryption
- Configuring and Managing YARN
- Non-Ambari YARN Management
- Configuring YARN Failure Sensitivity, Work Preserving Restarts, and Log Aggregation Settings
- Submitting YARN Jobs
- Configuring Different Workload Types
- Configuring User and Groups for YARN Labs
- Configuring YARN Resource Behavior and Queues
- User, Group and Fine-Tuned Resource Management
- Adding Worker Nodes
- Configuring Rack Awareness
- Configuring HDFS High Availability
- Configuring YARN High Availability
- Configuring and Managing Ambari Alerts
  Configuring and Managing HDFS Snapshots
- Using Distributed Copy (DistCP)

## **Course Objectives**

- Summarize and enterprise environment including Big Data, Hadoop and the Hortonworks Data Platform (HDP)
- Install HDP
- Manage Ambari Users and Groups
- Manage Hadoop Services
- Use HDFS Storage
- Manage HDFS Storage
- Configure HDFS Storage
- Configure HDFS Transparent Data Encryption
- Configure the YARN Resource Manager
- Submit YARN Jobs
- Configure the YARN Capacity Scheduler
- Add and Remove Cluster Nodes
  - Configure HDFS and YARN Rack Awareness
  - Configure HDFS and YARN High Availability
  - Monitor a Cluster
  - Protect a Cluster with Backups

#### Prerequisites

Attendees should be familiar with with Hadoop and Linux environments.

#### Format

60% Lecture/Discussion 40% Hands-on Labs

#### Certification

Hortonworks offers a comprehensive certification program that identifies you as an expert in Apache Hadoop. Visit *hortonworks.com/training/certification* for more information.

### **Hortonworks University**

Hortonworks University is your expert source for Apache Hadoop training and certification. Public and private on-site courses are available for developers, administrators, data analysts and other IT professionals involved in implementing big data solutions. Classes combine presentation material with industry-leading hands-on labs that fully prepare students for real-world Hadoop scenarios.



#### About Hortonworks

Hortonworks develops, distributes and supports the only 100 percent open source distribution of Apache Hadoop explicitly architected, built and tested for enterprise-grade deployments. US: 1.855.846.7866 International: +1.408.916.4121 www.hortonworks.com

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