HDP Operations: HDP 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.

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