

# HDP Operations: Hadoop Administration 1 H1SH4X

<b>HPE course number</b>	H1SH4X
<b>Course length</b>	4 Days
<b>Delivery mode</b>	ILT
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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.

## Audience

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

- 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 Hadoop and Linux environments.

## Course objectives

- Summarize the enterprise environment including Big Data
- Hadoop and the Hortonworks Data Platform (HDP)
- Install HDP

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## Hands-on labs

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Introduction to the lab environment

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Performing an interactive Ambari HDP cluster installation

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Configuring Ambari users and groups

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Managing Hadoop services

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Using HDFS files and directories

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Using WebHDFS

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Configuring HDFS ACLs

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Managing HDFS

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Managing HDFS quotas

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Configuring HDFS transparent data encryption

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Configuring and managing YARN

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Non-Ambari YARN management

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Configuring YARN failure sensitivity, work preserving restarts, and log aggregation settings

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Submitting YARN jobs

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Configuring different workload types

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Configuring user and groups for YARN labs

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Configuring YARN resource behavior and queue

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User, group, and fine-tuned resource management

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Adding worker nodes

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Configuring rack awareness

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Configuring HDFS high availability

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Configuring YARN high availability

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Configuring and managing Ambari alerts

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Configuring and managing HDFS snapshots

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Using Distributed Copy (DistCP)

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c05105576, October 2016, Rev. 3