Hewlett Packard Enterprise

HDP Operations: Hadoop Administration 1 H1SH4X

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.

HPE course number	H1SH4X
Course length	4 Days
Delivery mode	ILT
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Audience

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

Prerequisites

Attendees should be familiar with Hadoop and Linux environments.

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

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*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

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 queue
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)

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