



Hortonworks Data Platform Operations: Install and Manage with Apache Ambari (EDU-PRIV-OPS-AMBARI-200) H7G70S

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| HPE course number | H7G70S |
| Course length | 4 days |
| Delivery mode | ILT |
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This four-day Apache Hadoop 2.0 training course is designed for administrators who deploy and manage Apache Hadoop 2.0 clusters. Through a combination of lecture and hands-on exercises you will learn how to install, configure, maintain and scale your Hadoop 2.0 environment. At the end of this course you will have a solid understanding of how Hadoop works with Big Data and through the hands-on exercises will have completed the Hadoop deployment lifecycle for a multi-node cluster.

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Audience

- This course is designed for IT administrators and operators responsible for installing, configuring and supporting an Apache Hadoop 2.0 deployment in a Linux environment

Prerequisites

- This course utilizes a Linux environment. Attendees should know how to navigate and modify files within a Linux environment. Existing knowledge of Hadoop is not required

Course objectives

In this course, you will learn the best practices for Apache Hadoop 2.0 administration as experienced by the developers and architects of core Apache Hadoop.

- How to size and deploy a cluster
- How to deploy a cluster for the first time
- How to configure Hadoop and the supporting frameworks
- How to perform ongoing maintenance to nodes in the cluster
- How to balance and performance tune a cluster
- How to move and manage data within a cluster
- How to integrate status and health checks into your existing monitoring tools (single pane of glass)
- How to add and remove DataNodes
- How to Implement a high available solution
- Best practices for deploying Hadoop clusters

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

Benefits to you

- This course will provide in depth explanation on how to install, configure and support an Apache Hadoop 2.0 deployment in a Linux environment

Detailed course outline

Day 1: Foundation, Planning and Installation

- Introduction to Hortonworks Data Platform & Hadoop 2.0
- Hadoop Storage: HDFS Architecture
- Installation Prerequisites
- HDP Management: Ambari
- Ambari and the Command Line
- Hadoop Operating System (YARN) & MapReduce

Day 2: Configuration/Data Management

- Configuring Services
- Configuring HDFS
- Configuring Hadoop Operating System (YARN) & MapReduce
- Configuring ZooKeeper
- Configuring Schedulers
- Data Integrity
- Extract-Load-Transform (ELT) Data Movement
- Copying Data Between Clusters

Day 3: Data Management/Hortonwork Data Platform (HDP) 2.0 Operations

- HDFS Web Services
- Apache Hive Data Warehouse
- Transferring data with Sqoop
- Moving Log Data with Flume
- Setting up the HDFS NFS Gateway
- Workflow Management: Ooze
- Monitoring HDP 2.0 Services
- Commissioning and Decommissioning Nodes and Services

Day 4: Hortonworks Data Platform (HDP) 2.0 Operations

- Rack Awareness and Topology
 - NameNode Federation Architecture
 - NameNode High-Availability (HA) Architecture
 - Backup & Recovery
 - Security
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