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# 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.

## 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

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*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

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| **Day 1: Foundation, Planning and Installation** | • Introduction to Hortonworks Data Platform & Hadoop 2.0<br>• Hadoop Storage: HDFS Architecture<br>• Installation Prerequisites<br>• HDP Management: Ambari<br>• Ambari and the Command Line<br>• Hadoop Operating System (YARN) & MapReduce |
| **Day 2: Configuration/Data Management** | • Configuring Services<br>• Configuring HDFS<br>• Configuring Hadoop Operating System (YARN) & MapReduce<br>• Configuring ZooKeeper<br>• Configuring Schedulers<br>• Data Integrity<br>• Extract-Load-Transform (ELT) Data Movement<br>• Copying Data Between Clusters |
| **Day 3: Data Management/Hortonwork Data Platform (HDP) 2.0 Operations** | • HDFS Web Services<br>• Apache Hive Data Warehouse<br>• Transferring data with Sqoop<br>• Moving Log Data with Flume<br>• Setting up the HDFS NFS Gateway<br>• Workflow Management: Ooze<br>• Monitoring HDP 2.0 Services<br>• Commissioning and Decommissioning Nodes and Services |
| **Day 4: Hortonworks Data Platform (HDP) 2.0 Operations** | • Rack Awareness and Topology<br>• NameNode Federation Architecture<br>• NameNode High-Availability (HA) Architecture<br>• Backup & Recovery<br>• Security |

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