



HDP Operations: HDP Administration Fast Track

Training Calendar

Date	Training Time	Location
29 April 2019	5 Days	Bilginç IT Academy
22 July 2019	5 Days	Bilginç IT Academy

Training Details

Training Time	:	5 Days
Capacity	:	12
Prerequisites	:	Students should be familiar with server or platform software concepts and have a basic understanding of system administration.

About Training

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This training course is designed for primarily for systems administrators and platform architects who need to understand HDP cluster capabilities, and manage HDP clusters.

Topics include: Understanding HDF capabilities, Apache Hadoop, Apache YARN, HDFS, and other Hadoop ecosystem components. Students will understand how to administer, manage, and monitor HDP clusters.

Who Should Attend

This course is for students who range from having an understanding of server software concepts,

to system administrators and platform architects who plan on administering HDP clusters.

Outline

- Big Data, Hadoop, and the Hortonworks Data Platform
- Installing the Hortonworks Data Platform
- Managing Users and Group in Ambari
- Managing Hadoop Services
- Using HDFS Storage
- Managing HDFS Storage
- Add, Decommission and Recommission Nodes
- Rack Awareness
- YARN Resource Management
- YARN Applications
- YARN Capacity Scheduler
- HDFS and YARN High Availability
- Monitoring a Cluster (Ambari Metrics and Alerts)
- Automating Cluster Provisioning
- Using Ambari Blueprints
- Performing an HDP Rolling Upgrade/Express Upgrade
- Configuring Heterogeneous HDFS Storage
- Configuring HDFS Centralized Cache
- YARN Node Labels
- Deploying Applications Using Apache Slider
- Hive Tuning
- Apache Hive High Availability
- Managing Workflows Using Apache Oozie
- Introduction to Falcon
- Managing Data Compression (Optional)
- HDFS Snapshots/Backup (Optional)
- Integrating Ambari with LDAP (Optional)

LAB CONTENT

- Installing HDP
- Managing Ambari Users and Groups
- Managing Hadoop Services
- Using HDFS Storage
- WebHDFS
- Using HDFS ACLS
- Managing HDFS Storage
- Managing HDFS Quotas
- Adding, Decommission, and Recommission Worker Node
- Configuring Rack Awareness
- Configure and Manage YARN

- Non-Ambari YARN Management
- Run Sample YARN Applications
- Configure Users and Groups for YARN
- Configure YARN Resource Behavior and Queues
- Managing YARN ACLs and User Limits
- Configuring NN HA
- Configuring RM HA
- Configuring Amabri Alerts
- Introduction to the Lab Environment
- Install HDP using Ambari Blueprints
- Performing a Rolling/Express Upgrade
- Configuring HDFS Storage Policies
- Configure HDFS Centralized Cache
- Configure YARN Node Labels
- Deploy HBase using Slider
- Configure Hive High Availability
- Manage Workfliws with Oozie
- Managing HDFS Snapshots (Optional)
- Using DistCp (Optional)
- Integrate Ambari with LDAP (Optional)