

## **Course Content for Big Data Hadoop Administration**

### **Introduction to Big Data**

- Characteristics of Big Data
- Why is parallel computing important
- Discuss various products developed by vendors

### **Introducing Hadoop**

- Components of Hadoop
- Starting Hadoop
- Identify various processes
- Hands on

### **Working with HDFS**

- Basic file commands
- Web Based User Interface
- Reading & Writing to files
- Run a word count program
- View jobs in the Web UI
- Hands on

### **Installation & Configuration of Hadoop**

- Types of installation (RPM's & Tar files)
- Set up 'ssh' for the Hadoop cluster
- Tree structure
- XML, masters and slaves files

- Checking system health
- Discuss block size and replication factor
- Benchmarking the cluster
- Hands on

### **Advanced administration activities**

- Adding and de-commissioning nodes
- Purpose of secondary name node
- Recovery from a failed name node
- Managing quotas
- Enabling trash
- Hands on

### **Monitoring the Hadoop Cluster**

- Hadoop infrastructure monitoring
- Hadoop specific monitoring
- Install and configure Nagios / Ganglia
- Capture metrics
- Hands on

### **Other Components of the Hadoop ecosystem**

- Discuss Hive, Sqoop, Pig, HBase, Flume
- Use cases of each
- Use Hadoop streaming to write code in Perl / Python
- Hands on

**Trainer's Profile:** Trainer is Working Consultant from Cognizant with 9+ years of Consulting and Training Experience. Learning Hub strictly follows the policy of employing working Hadoop Professional as a Trainer and by this only we can maintain the quality of the training.

**Course Duration:** 4 Weeks (Around 60 Hours) of Class Room Training.

**Course Fee:** 20,000 INR.

**Trainer's Contact Details:** Ph. +91-9325793756

(Email: [info@hadoopsoftraining.co.in](mailto:info@hadoopsoftraining.co.in)):

**Mode of Training:** This would be a class Room Based Training.

**Hadoop Server Access:** We required student to come up with system or Laptop and we will install Hadoop Software on the same.

**Books and Study Material:** Hadoop School of Training will provide all Study Material and Books for this course in Soft Copy format.

**Self-Practice Required:** If you are looking to get into Hadoop Developer roles so please dedicated 80-100 Hrs. of Self-study and Practice in order to get command on the system and then only you can easily clear's Hadoop Developer's Interviews.

**Background Need to get into this course:** This course suits to the people who are coming from Technical Degree Background (BE, MCA, MSc. etc.). Prior Experience in DBA or Linux Admin is helpful during the course.