

BIG DATA

HADOOP (ADMIN)



CURRICULUM

» Introduction to Big data

- Characteristics of Big Data
- Big data collection and cleanup
- Why analyze big data
- Why parallel computing important
- Various products for handling big data

» Introducing Hadoop

- Hadoop Stack
- Components of Hadoop
- Starting Hadoop
- Various Hadoop processes
- Hands On

» Working with HDFS

- Basic file commands
- Reading & writing to files
- Run a word count on a large text file
- Web based UI
- View jobs status on Hadoop prompt
- View jobs status on web UI
- High availability
- Federation
- Hands On

» YARN

- Architecture
- Scheduler
- Resource Manager
- Yarn Hands On

» Installation & Configuring Hadoop

- Types of installation (standalone, distributed)
- Hadoop distributions (Apache, cloudera and hortonworks)
- Setup linux for Hadoop installation (Java and SSH)
- Hadoop directory structure
- XML, masters and slave files
- Checking system health
- Checking file system health
- Block size, replication factor and block health monitoring
- Benchmarking cluster
- Hands On

» Advanced administration activities

- Superuser
- Authorization
- Secure Mode
- Adding and de-commissioning nodes
- Secondary NameNode
- Failover
- Manage Quotas
- Enabling Thrash
- Hands On

» Monitoring Hadoop Cluster

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

» Other Components of Hadoop Ecosystem

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

Partners :



Java



development | consultancy | training

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