



Hadoop Admin

Mode of Training: Online, Classroom, Corporate

Faculty: Mr. SRINIVAS

Course Duration: 30 Days

A woman with dark curly hair and glasses, wearing a pink top, stands with her arms crossed in front of a large window with a grid pattern. The background is slightly blurred, showing the window's structure and light coming through.

Course Curriculum

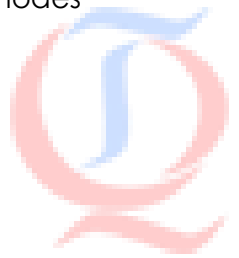
HADOOP ADMINISTRATION

1. Hadoop Cluster Administration

- Introduction to Hadoop framework
- HDFS File system
- Hadoop Architecture
- MapReduce Framework
- A typical Hadoop Cluster
- Hadoop Cluster Administrator: Roles and Responsibilities

2. Hadoop Architecture and Cluster setup

- Hadoop Installation
- Understand Name node and Data nodes
- Setup a Single Node Cluster
- Deploy in pseudo-distributed mode
- Rack Awareness
- Anatomy of Write and Read
- Replication Pipeline, Data Processing



3. Hadoop Cluster: Planning and Managing

- Planning the Hadoop Cluster
- Hardware/Software considerations
- Managing/Scheduling Jobs
- Schedulers in Hadoop - FIFO & FAIR
- Setup Queues and Pools for Jobs
- Run MapReduce jobs
- Cluster Monitoring/ Troubleshooting

4. Backup, Recovery and Maintenance

- Configure Rack awareness
- Hadoop Balancer
- Setting up Secondary Name node
- Hadoop Backup
- Whitelist and Blacklist data nodes
- Add Storage to Data nodes
- Setup Users and Quota's
- Diagnostics and Recovery

5. Hadoop 2.0 and High Availability

- Introduction to Hadoop 2.0
- Understand YARN framework
- Understand High Availability
- Understand Federation
- Introduction to Quorum Manager
- Hadoop 2.0 Cluster setup
- Deploying Hadoop 2.0 in pseudo-distributed mode
- Deploy multi-node Hadoop 2.0 Cluster



6. Configuring MapReduce, Capacity Scheduler, HDFS

- YARN Execution
- YARN Workflow
- MapReduce Job Configuration
- Configure Capacity Scheduler
- Configuring HDFS HA

- Hadoop Log Management
- Hadoop Auditing and Alerts

7. Advanced Topics: QJM, HDFS Federation and Security

- Configure Hadoop Federation
- Basics of Hadoop Platform Security
- Securing the Platform
- Understand Kerberos
- Configuring Kerberos on the Cluster

8. Oozie, Pig Configuration and Examples

- Introduction to Oozie/Configure Oozie
- Introduction to Pig Scripting
- Write Pig Scripts / Process Web logs using Pig
- Introduction to Hive and Hbase



9. Hive, HBase Administration

- Hive Administration
- HBase Architecture
- HBase setup
- HBase and Hive Integration
- HBase performance optimization and tools

10. Cloudera Setup and Performance Tuning

- Look at performance tuning parameters
- Intermediate phases of MapReduce
- Tuning the intermediate phases

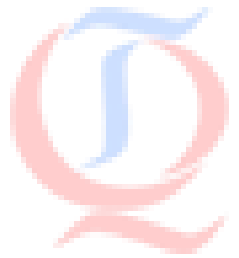
- Hadoop Cluster installation using Cloudera Manager
- Introduction to alternatives to the Hadoop HDFS and MapReduce

11. Ambari

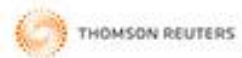
- Introduction to Ambari
- Installing and starting Ambari Server
- Configuring and Deploying the cluster
- Choosing and Customizing services
- Assigning Masters, Slaves and Clients
- Troubleshooting Ambari deployments

12. Amazon Web Services - AWS

- Introduction to AWS
- Different Instance types
- Get familiar with AWS
- Components of Hadoop on AWS
- Deploy Hadoop cluster on AWS
- Explore scalability options



Supporting Enterprises around the Globe



Our Other Courses

DevOps & Cloud Computing

- [AWS Admin Training](#)
- [Devops Training](#)
- [Azure Admin Training](#)

Artificial Intelligence & IOT

- [Artificial Intelligence Training](#)
- [IOT Training](#)

Big data

- [Hadoop Development Training](#)
- [Spark And Scala Training](#)

Data Science & Blockchain

- [Data Science Training](#)
- [Blockchain Training](#)

QA and Testing

- [Manual Testing](#)
- [Big data Testing Training](#)
- [Selenium Training](#)
- [Appium Training](#)
- [Web services Testing Training](#)
- [Security Testing Training](#)
- [Performance Testing Training](#)
- [TOSCA Training](#)
- [ETL Testing Training](#)

RPA and Automation

- [Automation Anywhere Training](#)
- [Blueprism Training](#)
- [Uiopath Training](#)

Programming & Framework

- Core Python
- [Advanced Python Training](#)
- [Django Training](#)
- [C,C++Programming Training](#)

Others courses

- [Digital Marketing Training](#)
- [Spoken English Training](#)
- [Chat Bot Making Training](#)
- [BI Reporting Tools Training](#)
- Sail point IIQ

Established in 2010

QualityThought[®]

The Leader in Software Training



www.qualitythought.in

+91 996 379 9240

info@qualitythought.in