

Advanced Hadoop: Performance Tuning and Security

Duration: 40 hours

Module 1: Hadoop High Availability for HDFS and Resource Manager.

- ! Using both JQM and Shared storage.

Module 2: Hadoop Queuing and pools details.

- ! Fair and Capacity Scheduler details.
- ! Dynamic pool configuration.
- ! User management and LDAP integration.

Module 3: HDFS Advanced Features

- ! Hadoop Centralised Caching.
- ! Hadoop Storage Policy and Archive Storage.
- ! Hadoop memory as storage tier.
- ! HDFS Extended Attributes.
- ! HDFS Short circuit Read.
- ! Quotas per storage type.
- ! Snapshots and HDFS over NFS
- ! YARN Labels

Module 4: In-depth Performance tuning and Cluster Sizing.

- ! JVM tuning for Hadoop.
- ! HDFS and MapReduce Tuning.
- ! Network tuning.

Module 5: Hadoop Security.

- ! Hadoop Knox.
- ! Detailed kerberos setup for securing Hadoop.
- ! Hadoop Encryption.

Module 6: Hadoop Upgrade and Production use cases.

- ! Hadoop Rolling upgrade.
- ! Phoenix details and setup.
- ! HDFS Configuration for multihoming.
- ! Namenode Recovery scenarios
- ! Common production Issues.

Module 7: HBASE and Hive.

- ! Hbase Administration and troubleshooting.
- ! Hive and Hbase recovery and upgrades.
- ! Hbase in-depth and common issues.

Cost: US \$1200 or equivalent Rs 70,000 INR

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