

Recap

- ► Hadoop installation
- ► Running JAR file on cluster
- ► HDFS API to delete HDFS file

Agenda for today

- MapReduce counters
- Performance tuning in MapReduce jobs
- Ad-hoc analysis with Impala
- Impala as Query processing tool
- MapReduce job chaining

Performance tuning

- Cluster configuration
- ▶ Use compression technique
- ▶ Tuning # mappers and reducers
- Use combiner
- Appropriate data type
- ▶ Reuse objects
- ▶ Profiling

MapReduce Job chaining

▶ Two separate jobs

Multiple mappers/reducers within same job

MapReduce Job chaining

▶ Two separate jobs

1. Configure first job object and run it.

2. Configure second job object and run it

MapReduce Job chaining

Multiple mappers/reducers within same job

https://mapr.com/blog/how-to-launching-mapreduce-jobs/

Impala SQL

- Create/Drop/Update table
- ▶ Insert/Update/Delete data into table
- Partitioning
- Modifying data directly in HDFS
- REFRESH table
- ► External vs Internal table
- Profiling and Optimization