Lab Assignment - 2 (98P-B)



Title !-

pesign a distributed application using mapreduce which processes a log file of a system.

Objectives !-

students should be able to perform the mapreduce operat" in Hadoop.

prerequisite:-

- 1) Hadoop installata
- y basics of hadoop: HDFS, map reduce.
- 3) java programming.

Theory !-

MapReduce.'-

MapReduce is a processing technique & a program model for distributed computing based on java. The mapReduce algorithm contains two important tasks , namely Map & Reduce. Map takes a set of data e converts it into another set of data. The omajor advantage of mapreduce is that it easy to scale data processing over multiple computing nodes. This simple scalability is what has attracted many programmers to use to Mapredure model.



Terminology:-

- reduce functions of form the core of job.
- Imapper: maps the input key value pair.
- 3) Named Node! manages Hadoop distributed File system.
- 4) Data Node: data is represented in advanced.
- 5) slaveNode: where maps + reduce program Tyns.
- 6) Job Tracker: schedules jobs of tracks the assign jobs to task tracker.
- 1) Job- A program is an executor of mapper f reducer across a dataset.
- 8) Task execute of mapper or reducer on slice of data.
- 4) Task attempt! particular instance of an attempt to execute a task on slavenode.
- = Important commands!-
 - · Name-node format
 - · secondary name node
 - · patanode
 - · fsck ·

