



# MapReduce Job Manager With Dynamic Load Balancing

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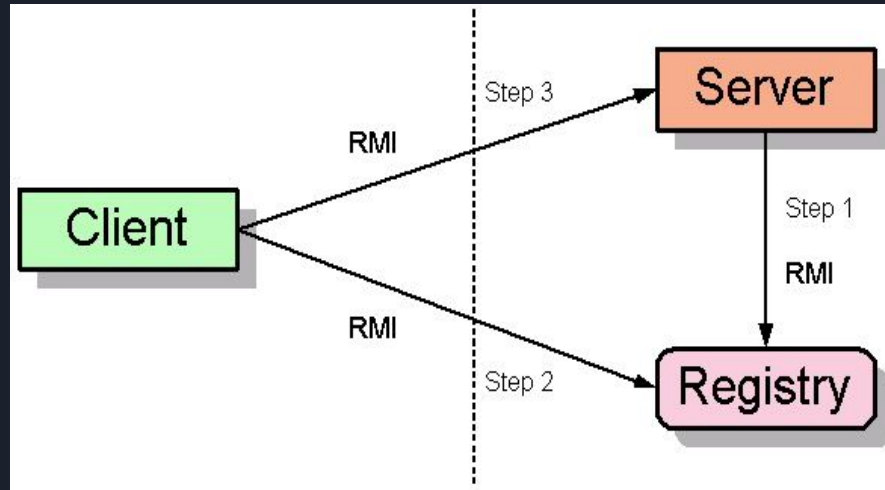
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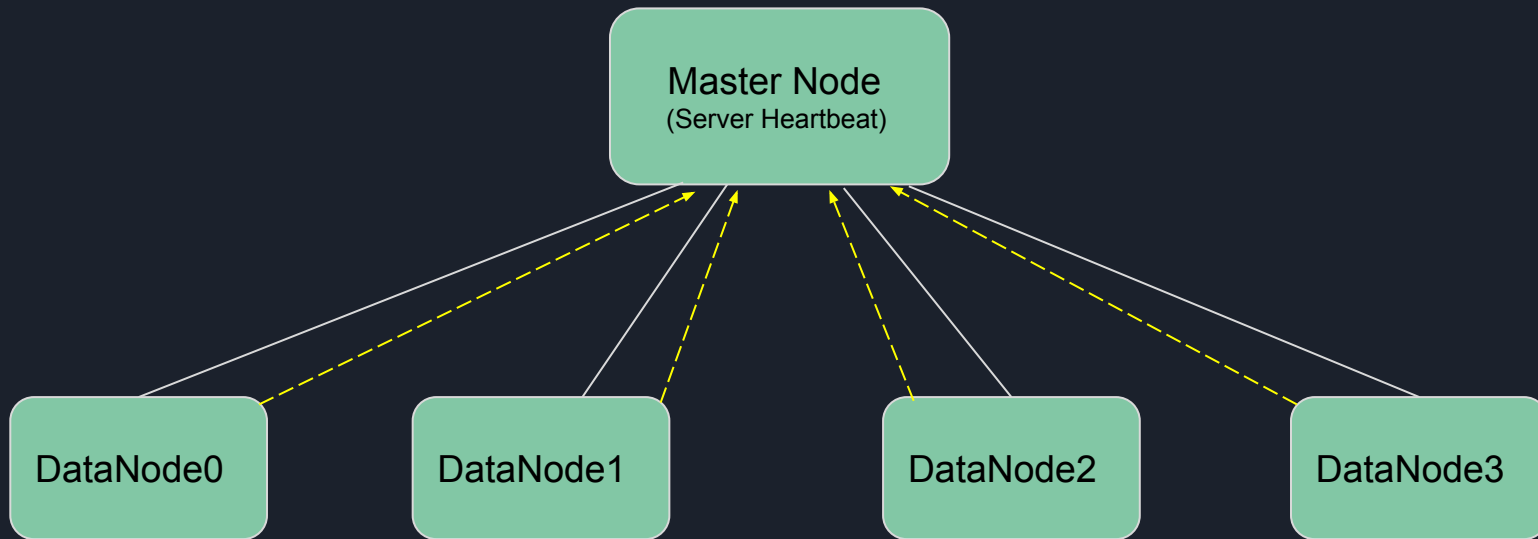
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# Remote Method Invocation



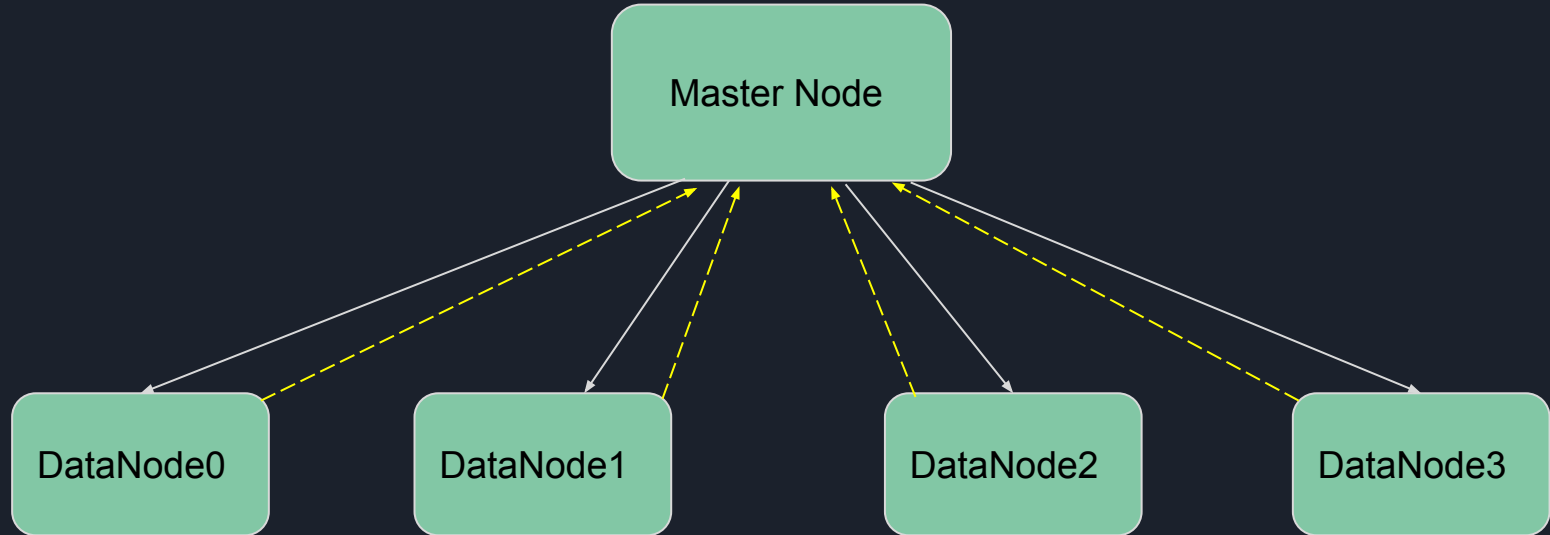
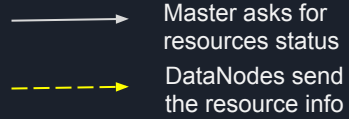
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Method call from  
Data Nodes

# Getting status via Heartbeats



DataNodes call Heartbeat method hosted on Master Node after every 5 second

# Resource Monitoring Module



# Methodology

- Client submits the mapreduce job along with mapper-reducer class and input file.
- Main Node gets information of the blocks of the input file.
- Mapper task allocation is done using our custom allocation algorithm.
- Once all the mapper tasks are allocated and completed, allocation of reducer task is done on one of the datanodes.
- After completion of reducer task output is written on the hdfs.

Thank You

