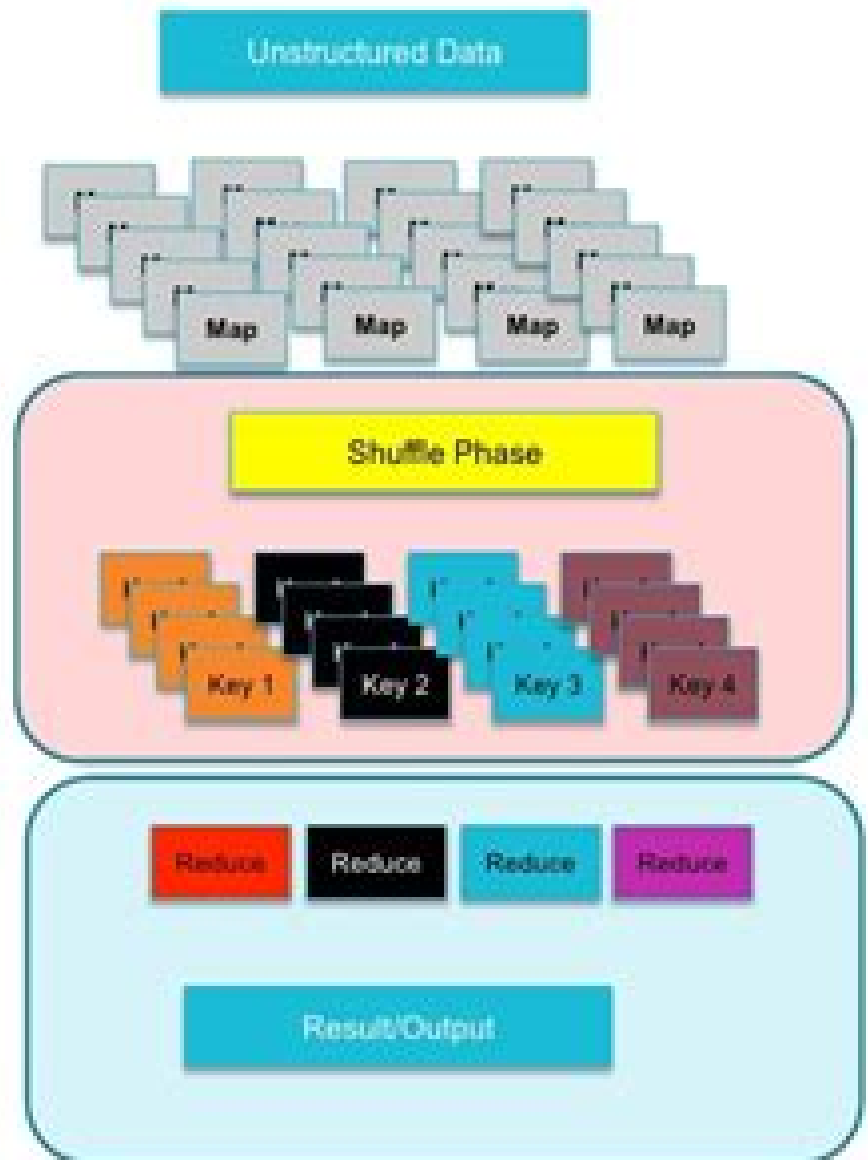


Hadoop Components and Operations

Hadoop Distributed File System

- **Shuffle Phase** - All name/value pair are sorted and grouped by their keys.
- Mapper sending the data to Reducers
- **High Network Activity**
- **Reduce Phase** – All values associates with a key are process for results, three phases
 - Copy - get intermediate result from each data node local disk
 - Merge - to reduce the number of files
 - Reduce method
- **Output Replication Phase** - Reducer replicating result to multiple nodes
 - Highest Network Activity
- Network Activities Dependent on Workload Behavior



Hadoop Operations Hadoop Operations

**Kokula Krishna Hari K, Keerthivasan
M, D Bhanu**



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