Quick Introduction On Big Data and Hadoop

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Big Data

Just a popular term used to describe the exponential growth

and availability of data

- * Structured
- * Semi Structured
- * Un Structured

Challenge

- * Enormous volumes of data
- * Many sources and types of data
- * Pace at which data flows
- * Abnormality in data



Big Data



Social media data



Click stream data



Connected Devices



What It Can Tell You

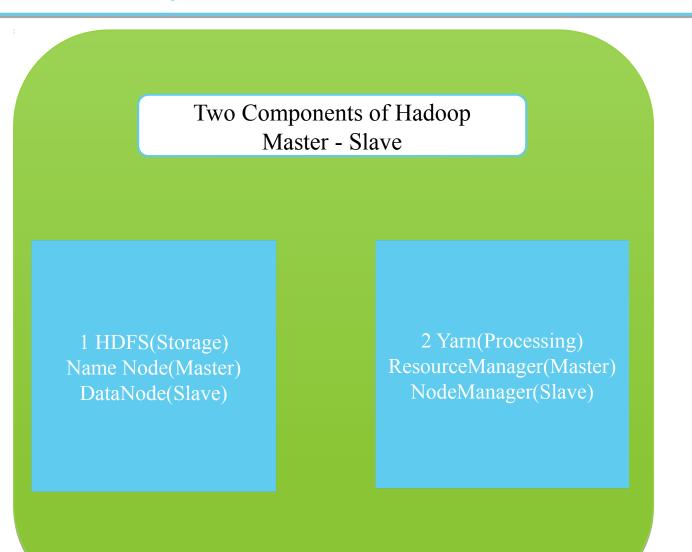
Application Logs	User activity, fraud detection, application performance
Business Process Logs	Customer activity across channels, purchases, accounts
Call Detail Records	Billing, revenue assurance, customer assurance, marketing intelligence
POS Data	Buying pattern of customers

Hadoop

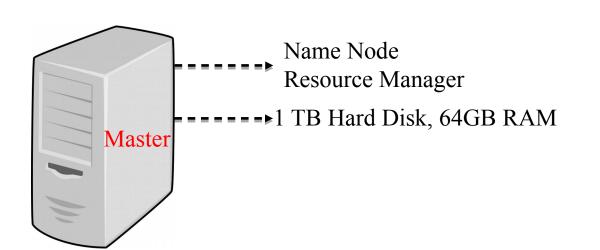
Open source software platform managed by the Apache Software Foundation has proven to be very helpful in storing and managing vast amounts of data cheaply and efficiently.

Basically, it's a way of storing enormous data sets across distributed clusters of servers and then running "distributed" analysis applications in each cluster.

Hadoop core Components and Daemons



Hadoop Cluster with Daemons



5 Servers in Cluster

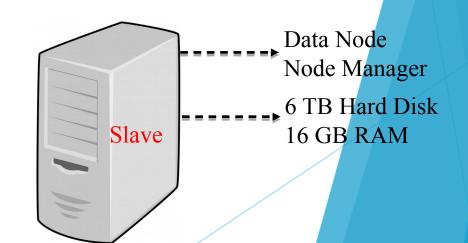
1 Master

4 Slaves







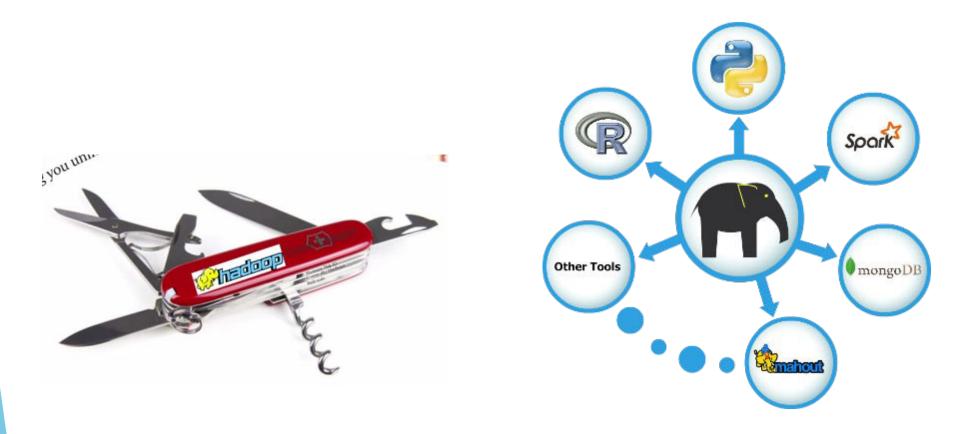


Hadoop Eco System

Distributed Programming:

- Apache MapReduce
- Apache Pig
- Apache Hive
- Apache Spark

Hadoop - The Swiss Knife Of 21st Century



Hadoop can be integrated with multiple analytic tools to get the best out of it, like M-Learning, R, Python, Spark, MongoDB etc.

Thank You