

Addressing Big Data Challenges: The Hadoop Way



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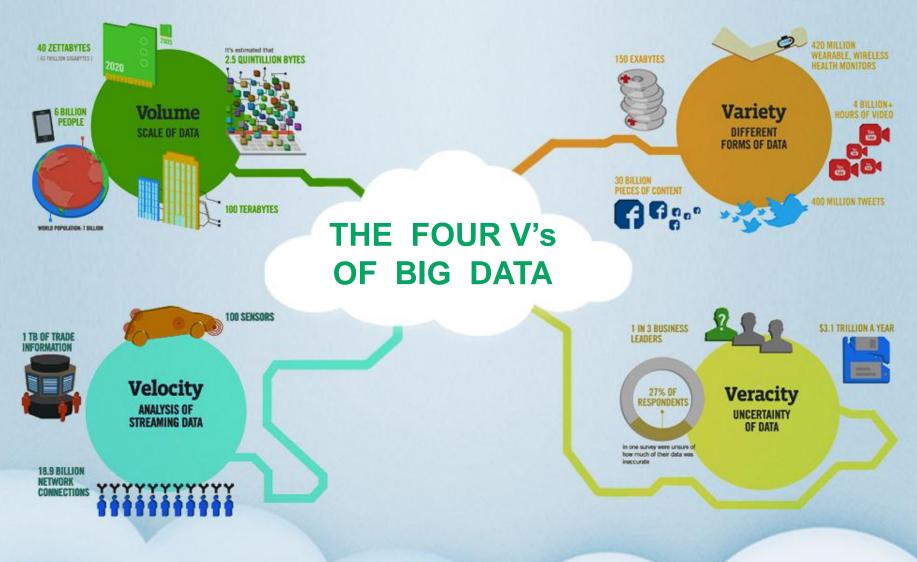




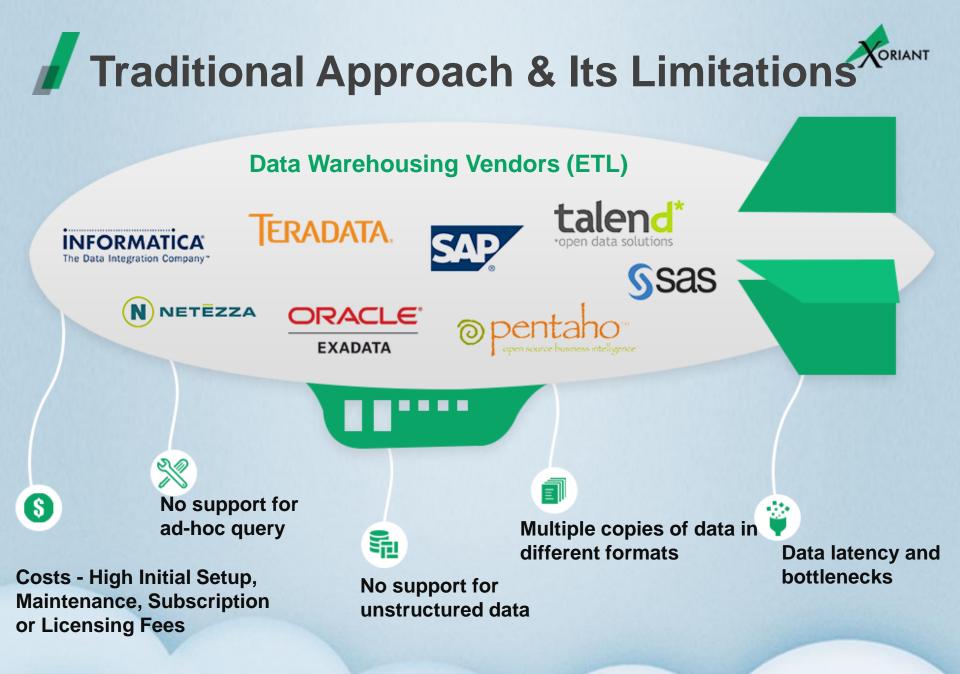
- Big Data Challenges
- Big Data Analytics Industry Trends
- Hadoop as a Solution
- Real Life Solution Studies
 - Case Study I Retail Industry
 - Case Study II Online Advertising Industry
- How Xoriant can help?
- Q & A

Big Data Challenges



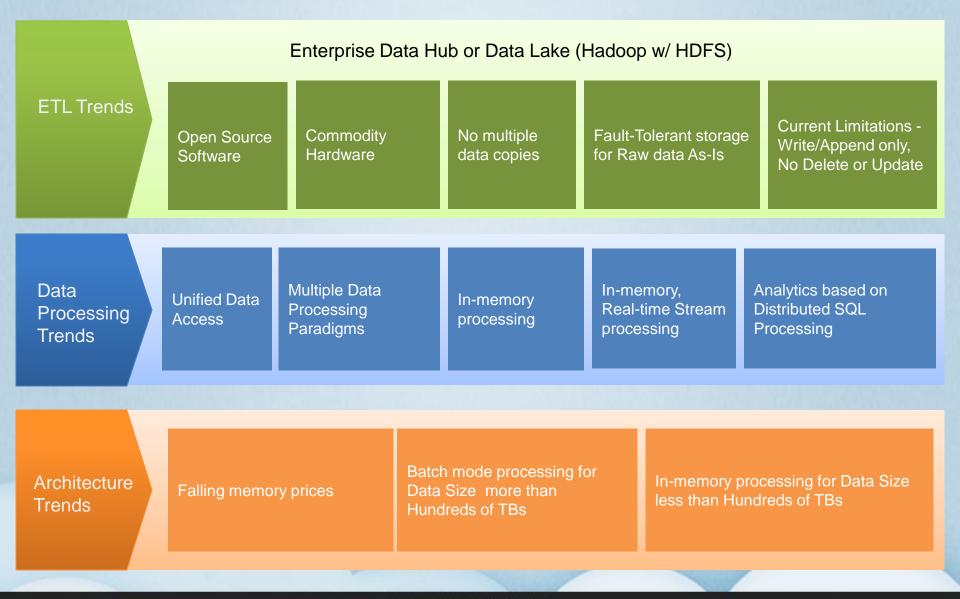


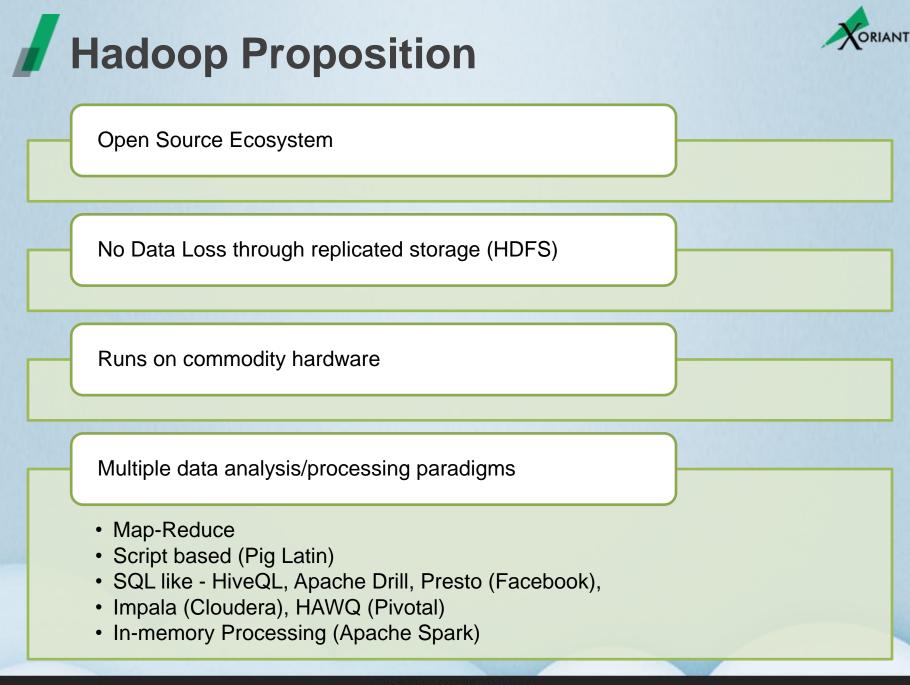
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Big Data and Analytics - Trends

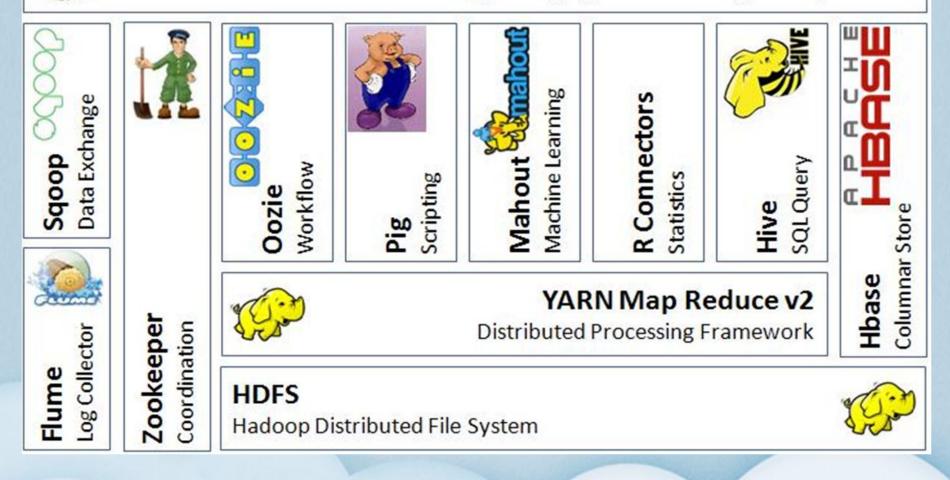






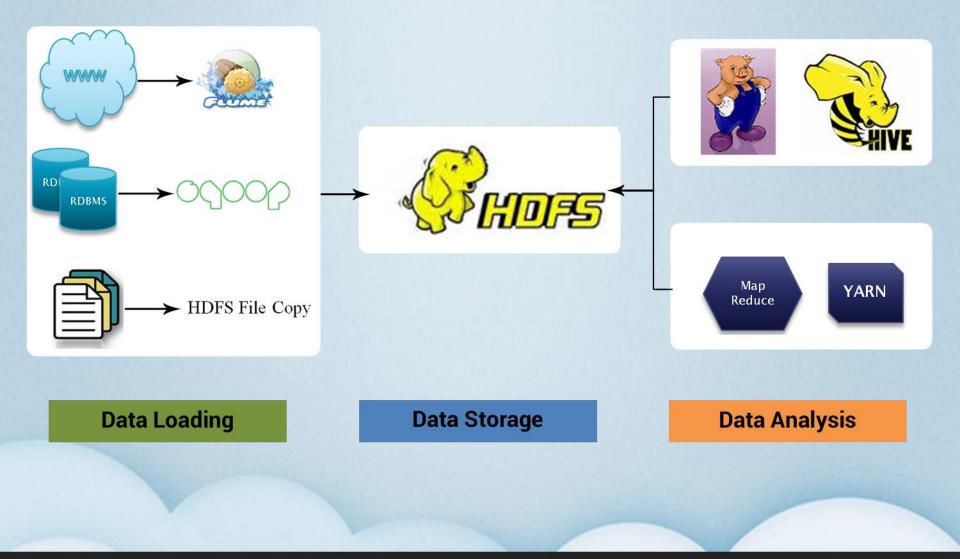
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Provisioning, Managing and Monitoring Hadoop Clusters









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Problem Scenario

- Personalize marketing campaigns, coupons, offers, marking down inventories
- Improving customer loyalty leads to sales and profitability
- Competition from other retailers
- ETL based analysis tasks taking lot of time up to 6 weeks
- Software systems (Oracle, Greenplum, SAS, Teradata)
- Mainframe based expensive hardware systems



Hadoop based Solution

- Data stored into HDFS with replication
- 300 Hadoop nodes with 2PB data



Benefits

- Data processing time down to 1 week and even daily
- Mainframe cost savings
- No software licensing Costs
- Limitless data storage with HDFS
- No multiple data copies
- Low cost



Case Study - 2

Online Advertising Industry (Attribution Computation)

Problem Scenario

- Growing Ads Impression and conversion events
- Longer attribution computation time (6 to 8 hours for each computation run). Advertisers needed quick results
- Unable to process more than 150GB data within each computation
- IBM Netezza based solution along with Oracle
- Expensive hardware and software costs



Hadoop based Solution

- Data Stored into HDFS with replication
- Initially used HiveQL then moved to Cloudera Impala (MPP architecture based Distributed SQL Engine)

Benefits

- Attribution computation time down to 45 minutes
- Capable of processing up to 300GB data for each computation
- Manageable data storage with HDFS
- Low cost



- Understands technological needs and organizational challenges faced with respect to Big Data
- Understands rapidly evolving Big Data technology space
- Can help bridge the gaps with Big Data capabilities
- Brings Big Data and NoSQL technology expertise

Thank you! Do you have any Questions?



Xoriant – Big Data Center of Excellence

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For **FREE** consultation, please contact us on the above mentioned email address.