





HBA

Hadoop Benchmark Analytics

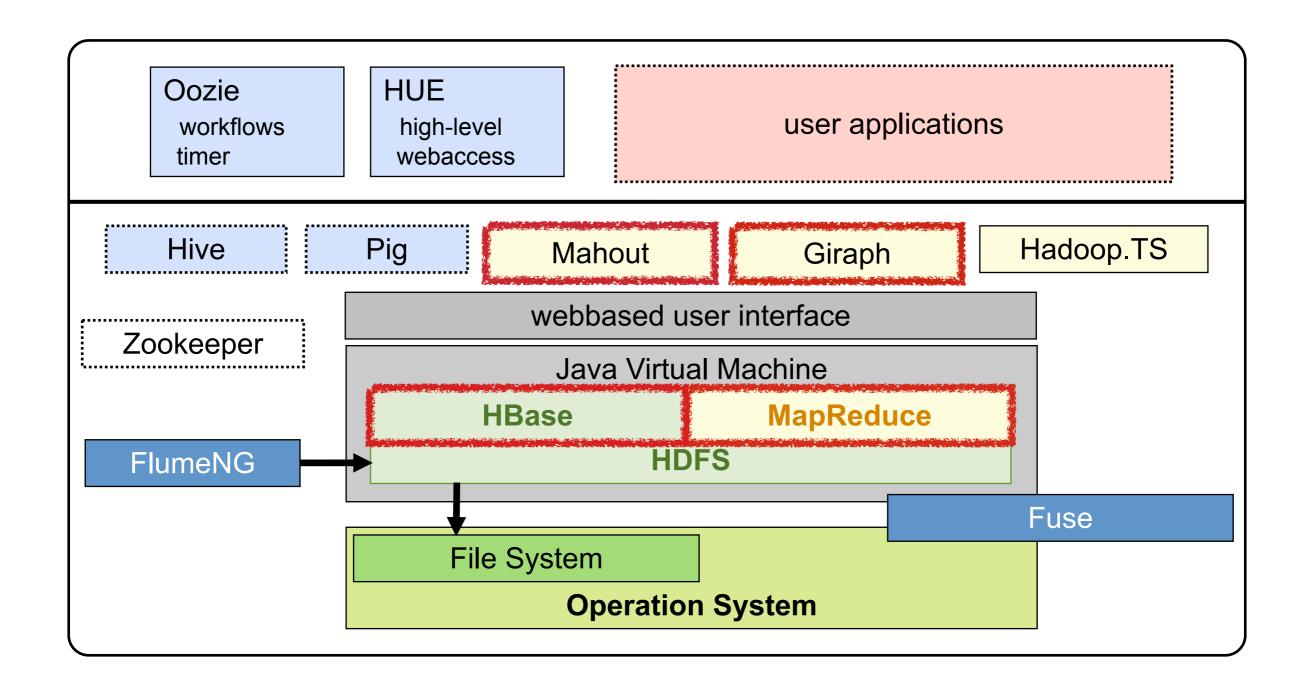
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Proposal for a crowd sourced data collection platform ...

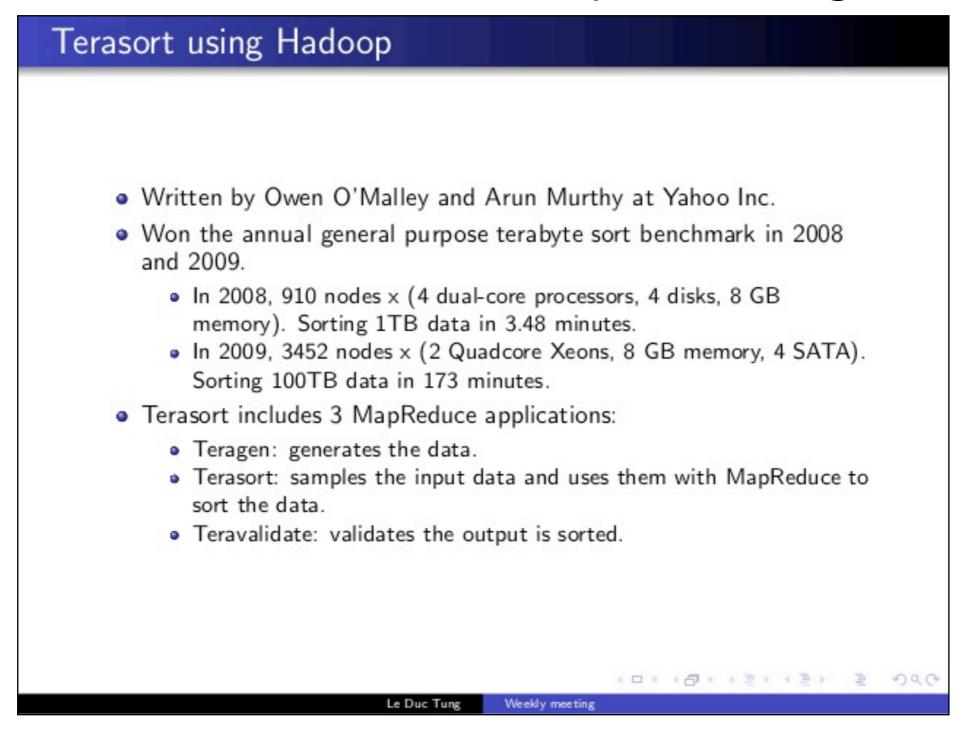
The Hadoop Ecosystem

Where we are?



Terra Sort

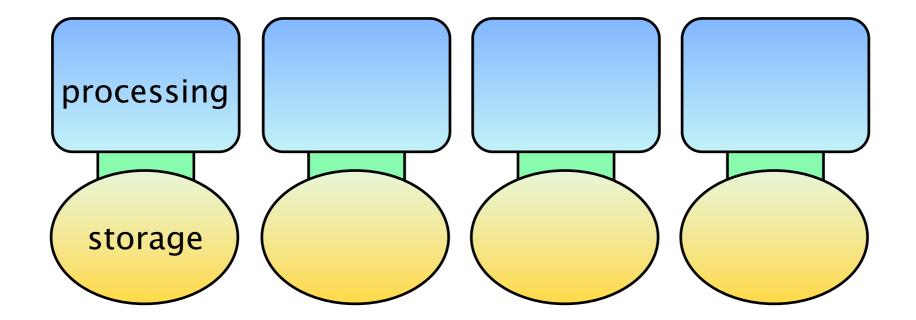
- easy benchmark for MR stream proceessing



http://www.slideshare.net/tungld/terasort

Terra Sort

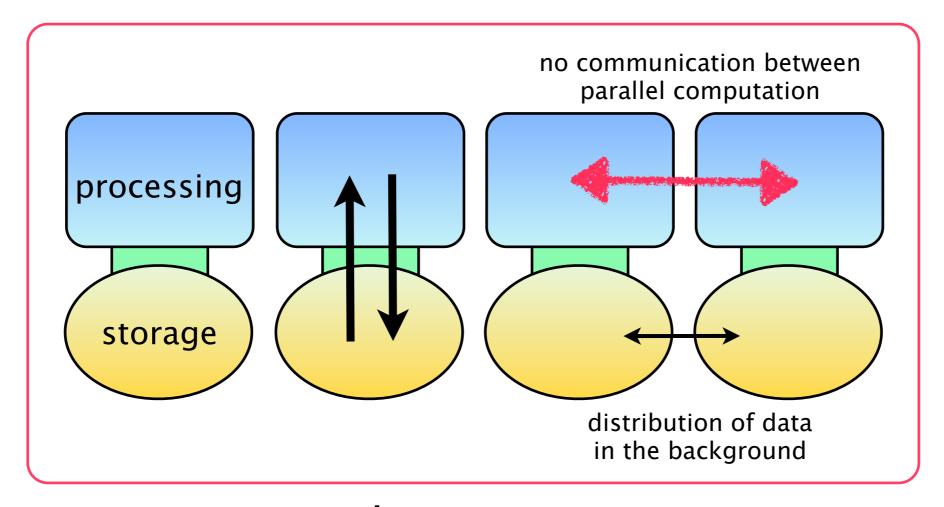
- easy benchmark for MR stream proceessing



Terra Sort

no general benchmark, but a good starting point

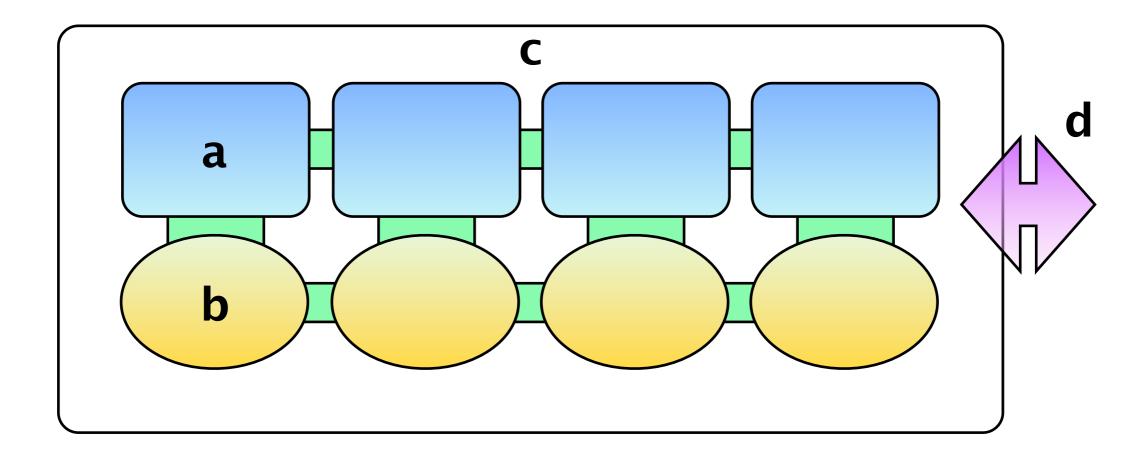
- just MapReduce stream proceessing



- no message passing between mappers
- limited to data processing within just one cluster ...
- but : we want to deal with large linked data sets!

What to measure?

- (a) Processing capacity & speed, depending on selected algorithms
- (b) Storage efficiency, depending on selected technology
- (C) Intra-Cluster communication, between processes
- (d) Inter-Cluster communication, between clusters



Crowd sourced data collection ...

- Define, create and run benchmarks
- Publish & share cluster profile data
- Publish & share job-log data (benchmark results???)
- Do statistical analysis on public data
- Build models for optimization

Apache Vidya, Apache Gridmix, and Starfish are established projects, but: isolated!

Hadoop Benchmark Analytics ... is on the way to become a community plattform for collecting public benchmark data, sharing results and for collaborative research.

Collaboration ...

· Hadoop, is not (yet) a typical RDF RDF technology ... but benchmark related work is already done.

 Maybe the mentioned projects can be a contribution to LDBC (\$) in the future.