



# Transforming Cloudera analytics agility in a fast-moving world

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# The Story of Unlocking



Data



Compute



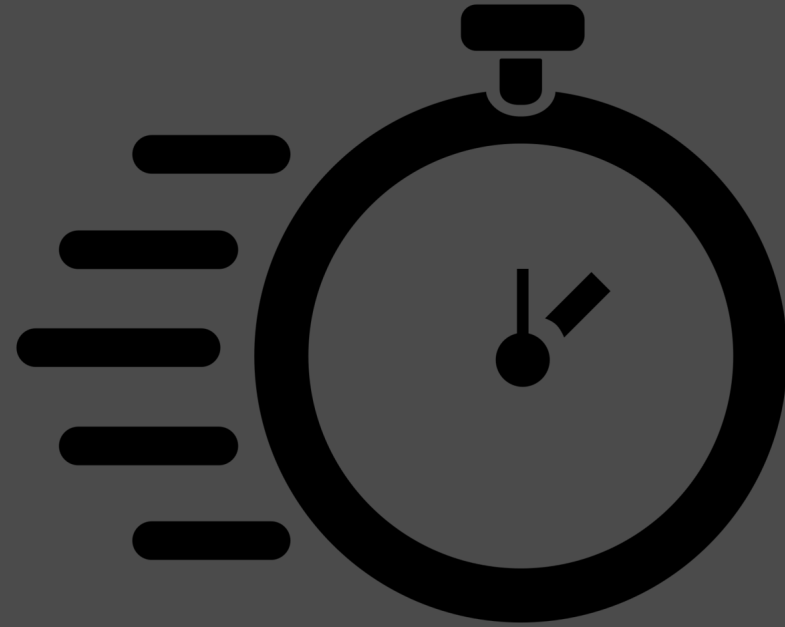
Innovation



# It's All About Time to Market

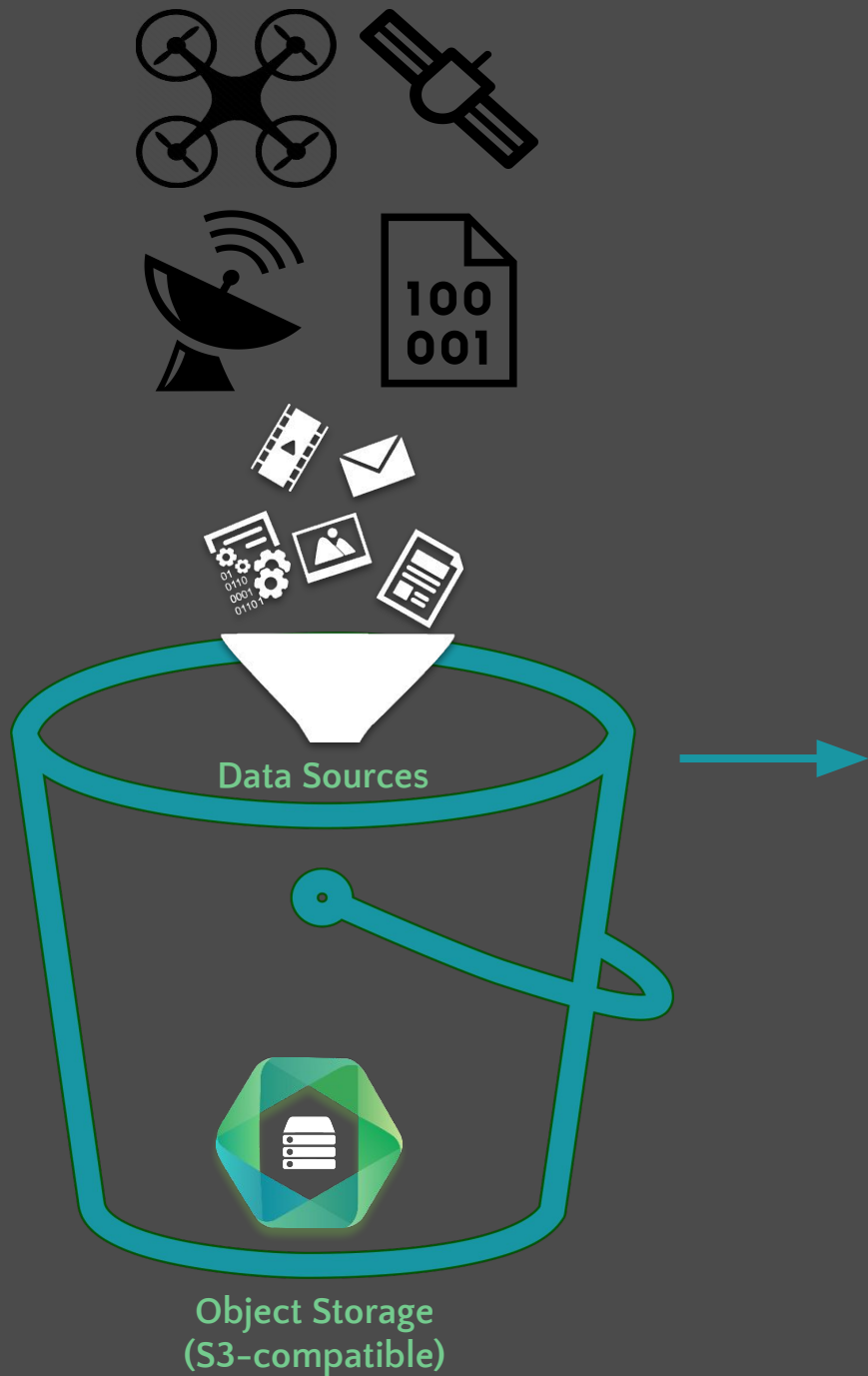


- 4-5 Months



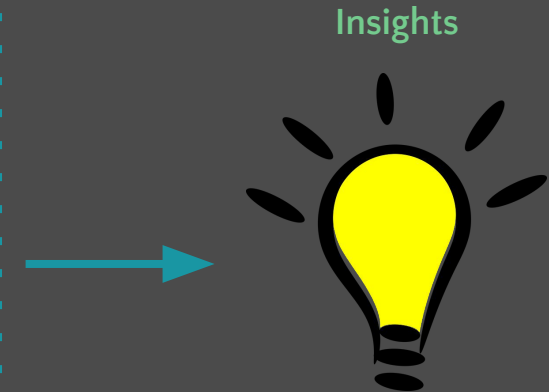
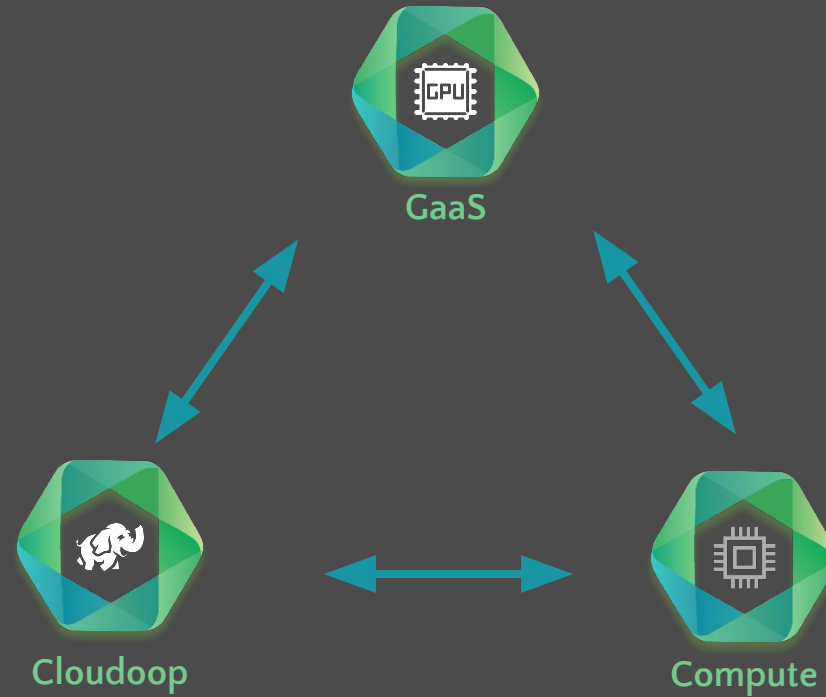
- 8-14 Minutes





# The Data Factory Vision

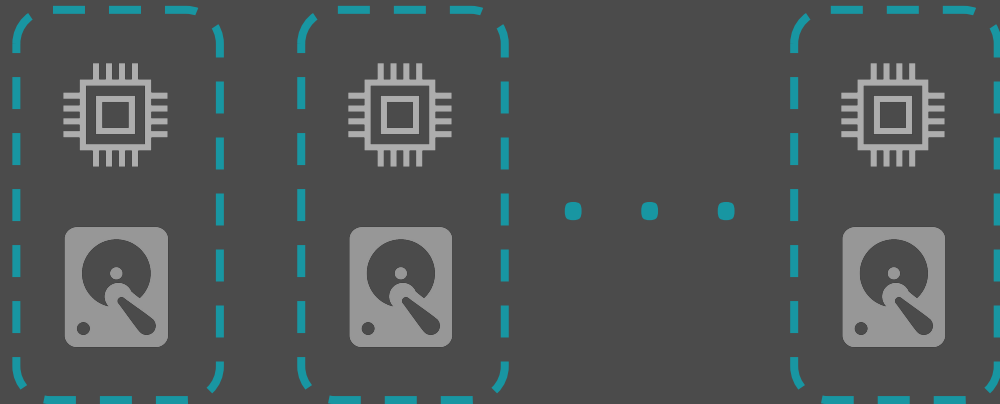
Example: Machine learning pipeline



# | Clouddoop



# Native Hadoop vs. Clouddoop



Compute Service



Object storage Service (S3)

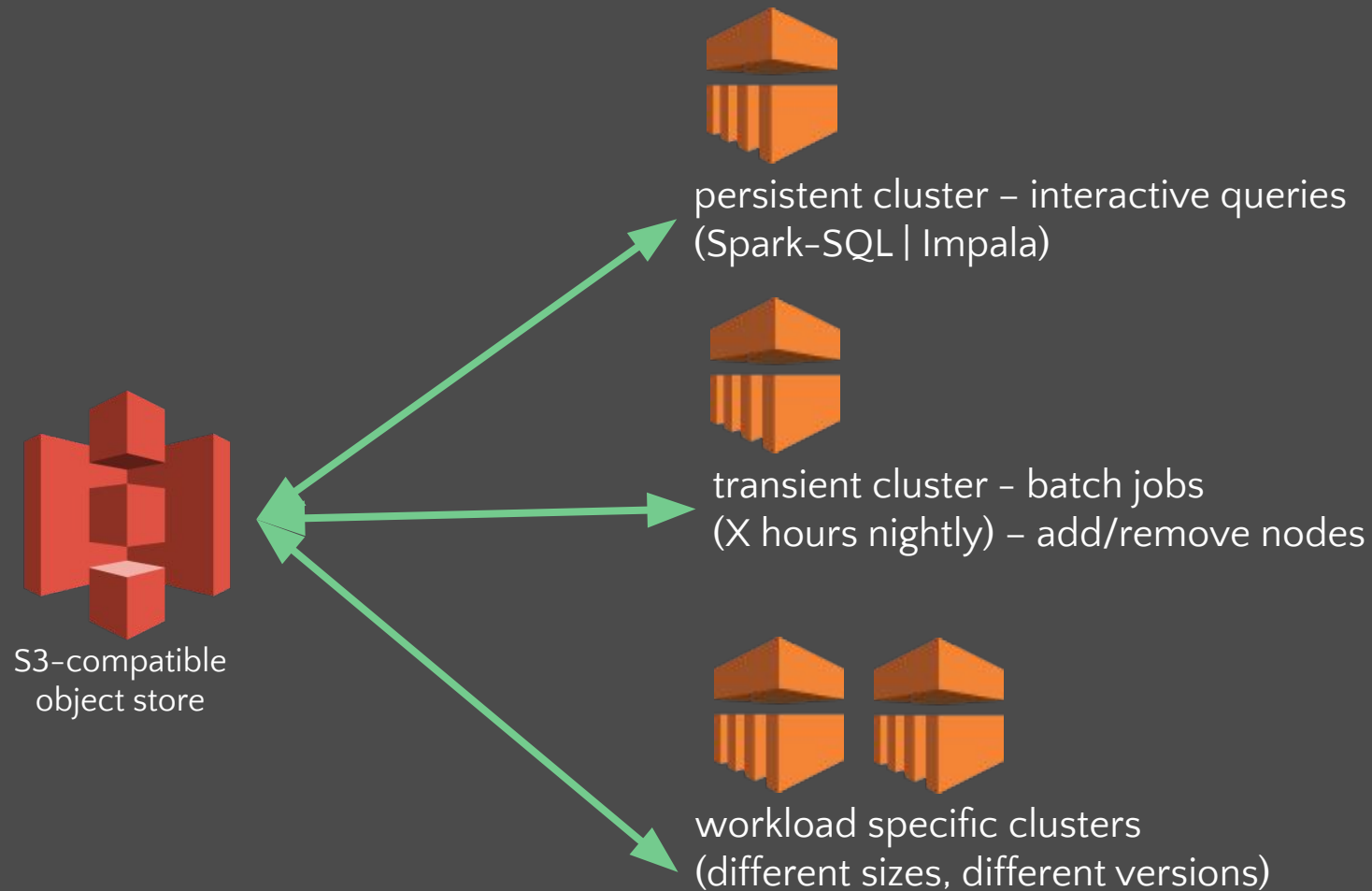


# Cloud Approach – Unlocking

- Elasticity
- Compute–data decoupling
- Scalability
- Dynamic
- Multi tenancy
- SLA



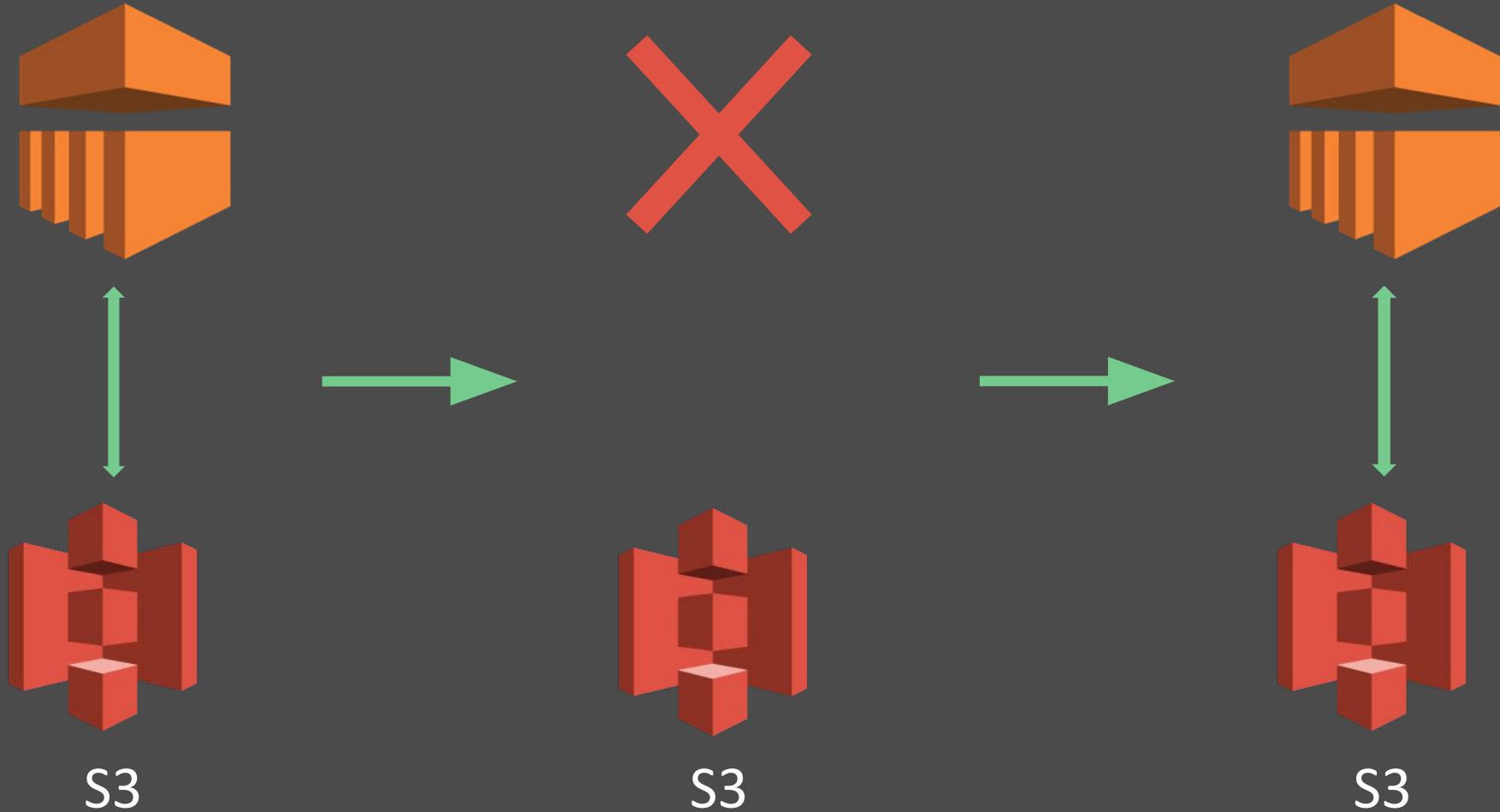
# Cloud Approach – AWS experience on-prem





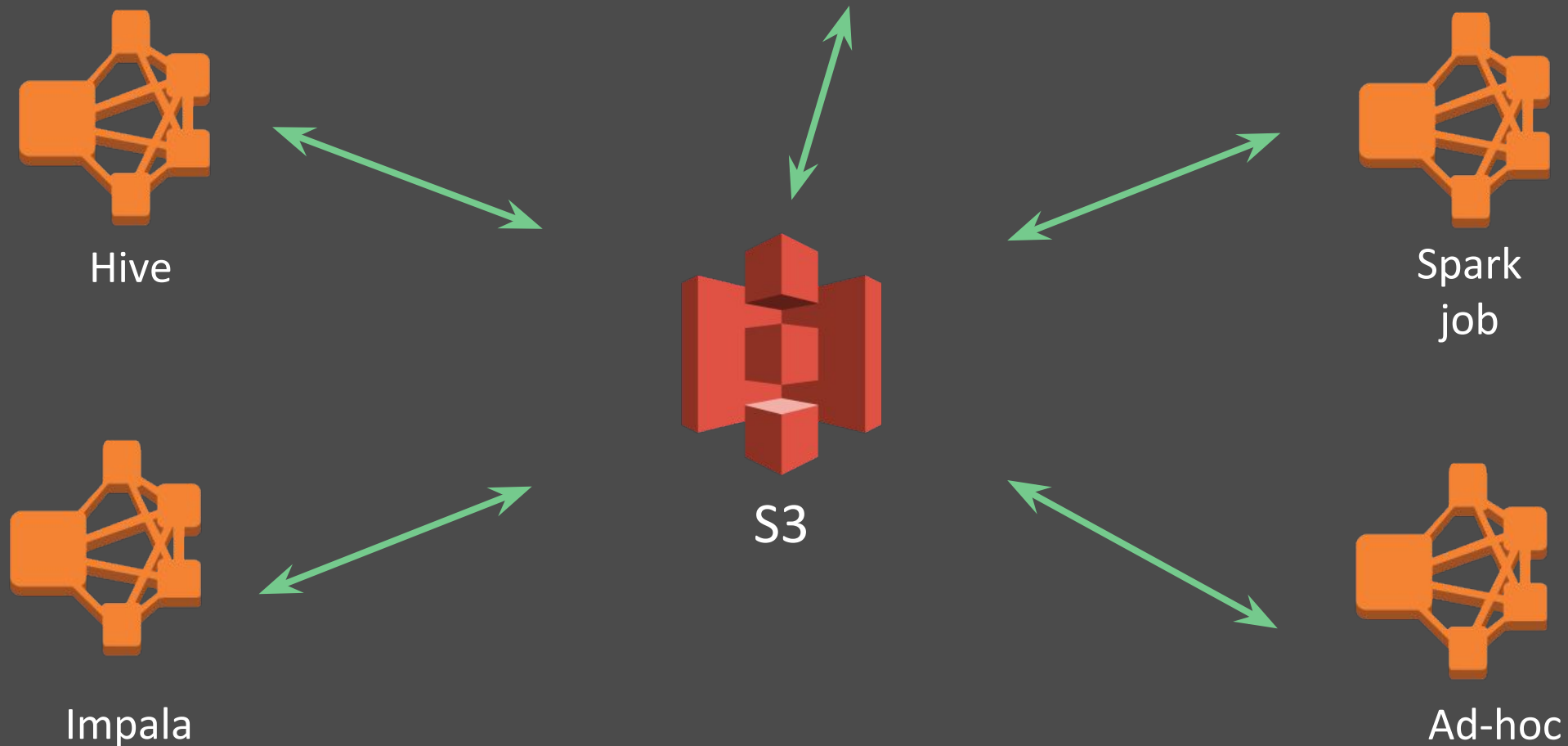
# Cloud Approach

Switch Off Clusters



# Cloud Approach

Logical Separation of Jobs

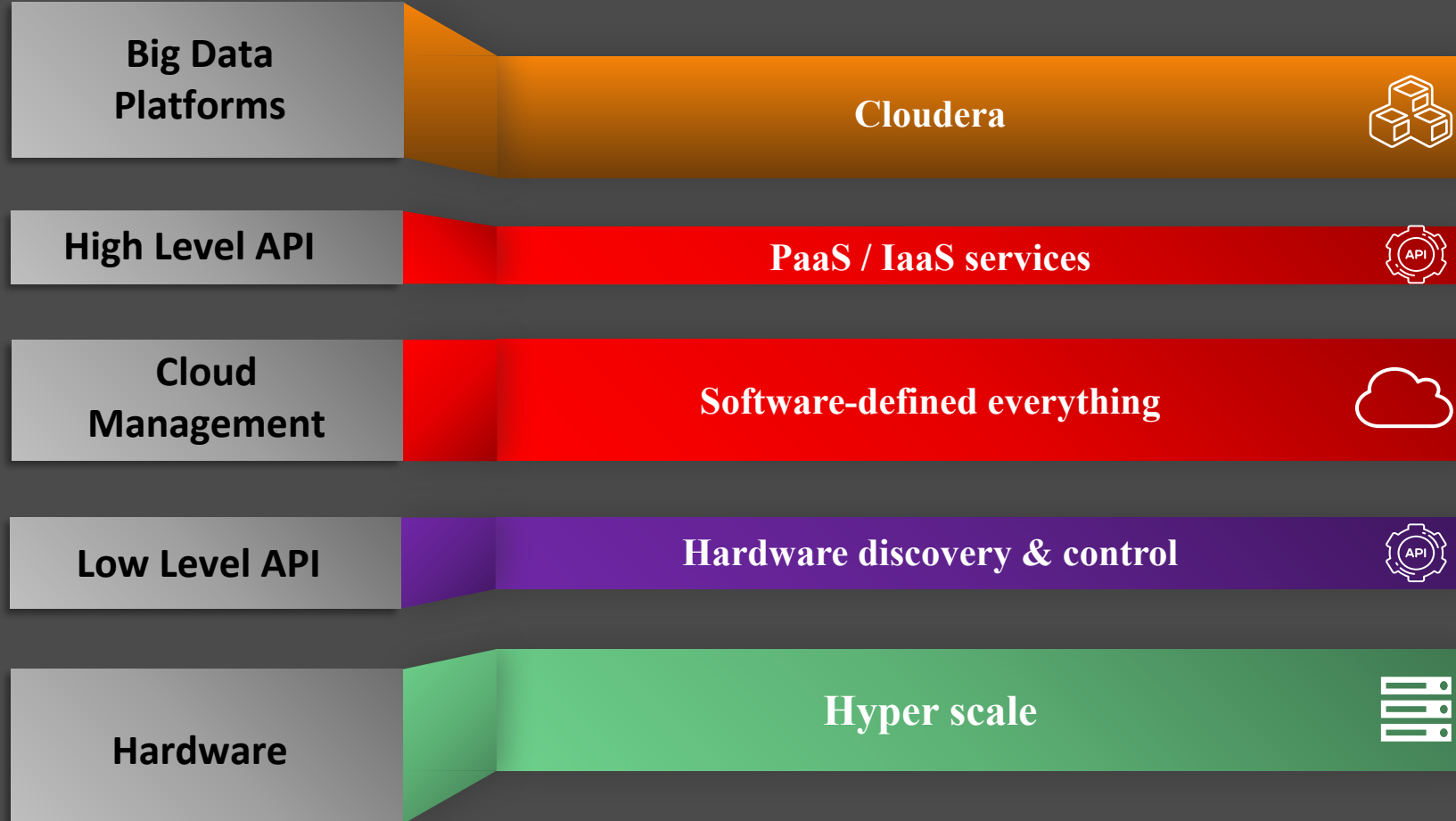


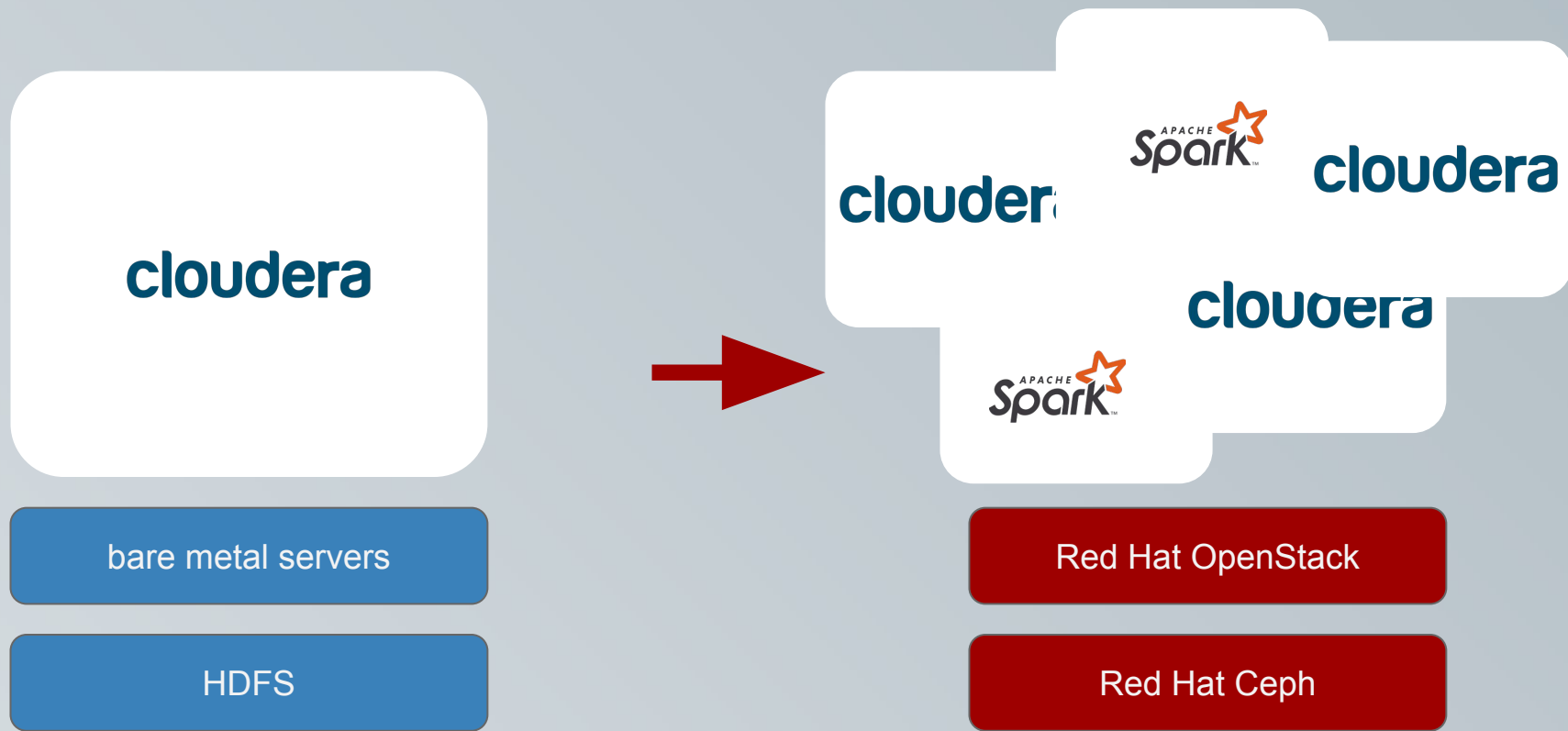
# Cloud Approach

Logical Separation of Jobs



# High Level Architecture

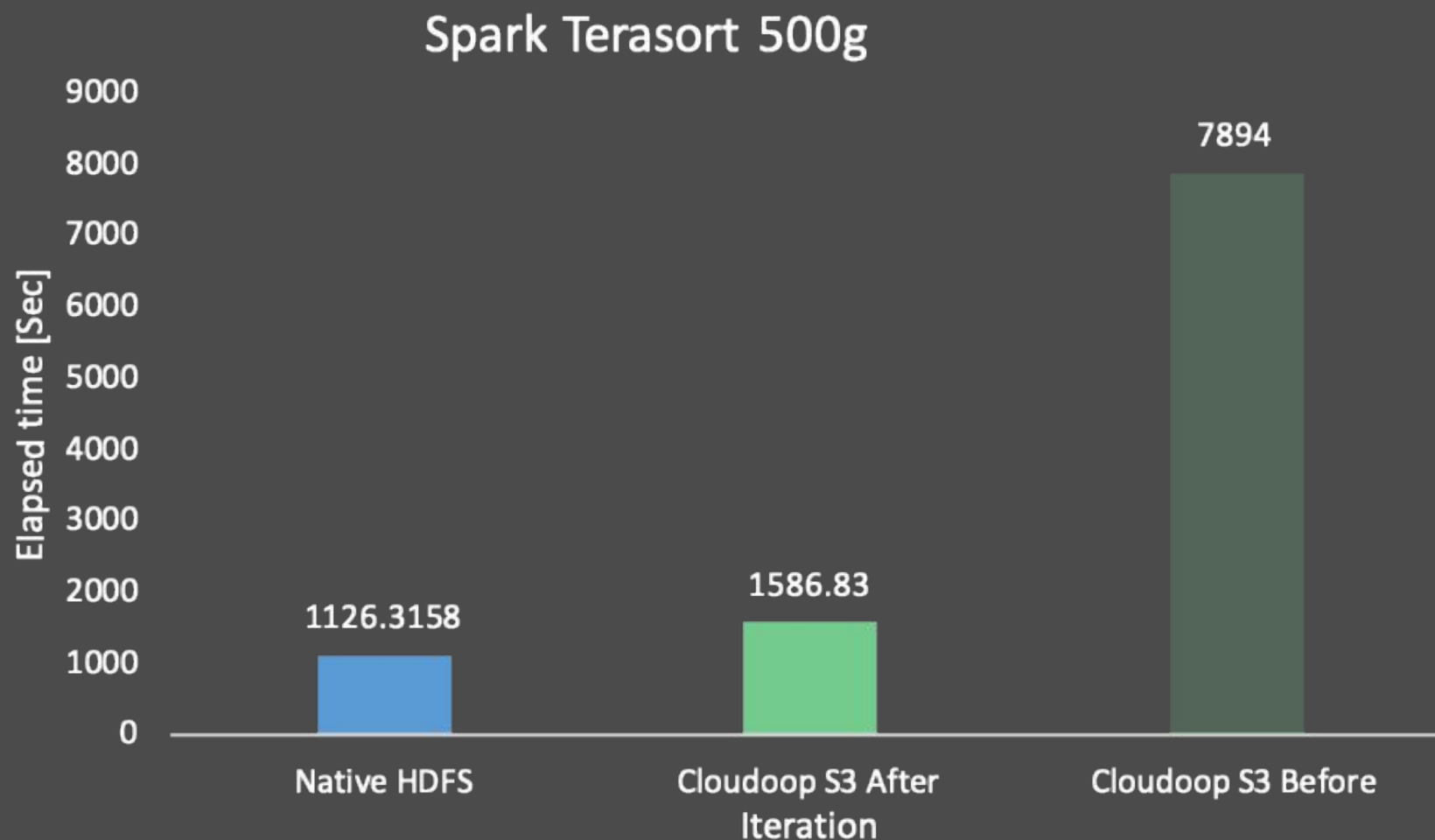




# Proof Of Concept



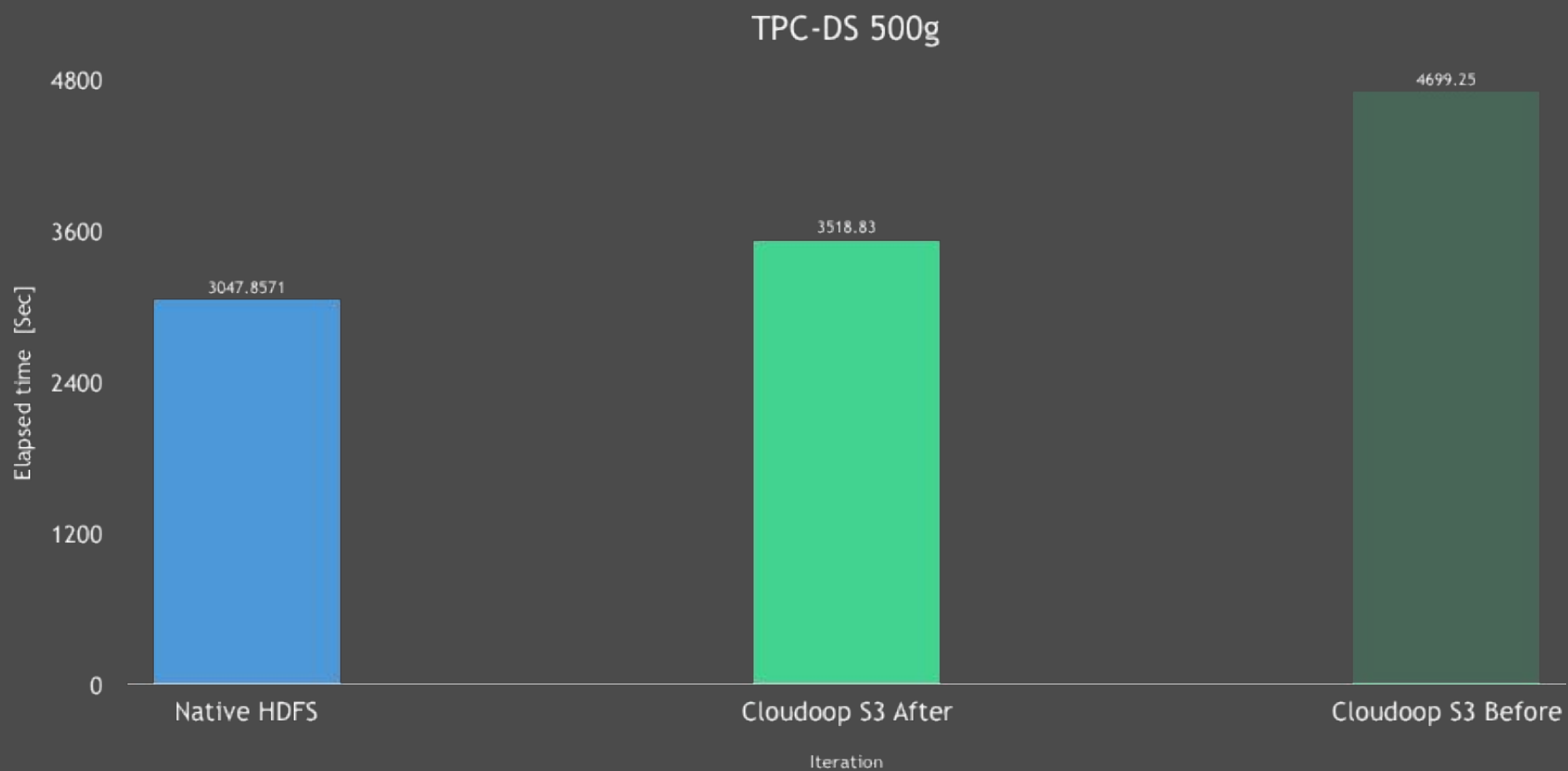
# Fine tune – Spark Terasort Before & After



\* Lower is better



# Fine tune - TPC-DS Before & After

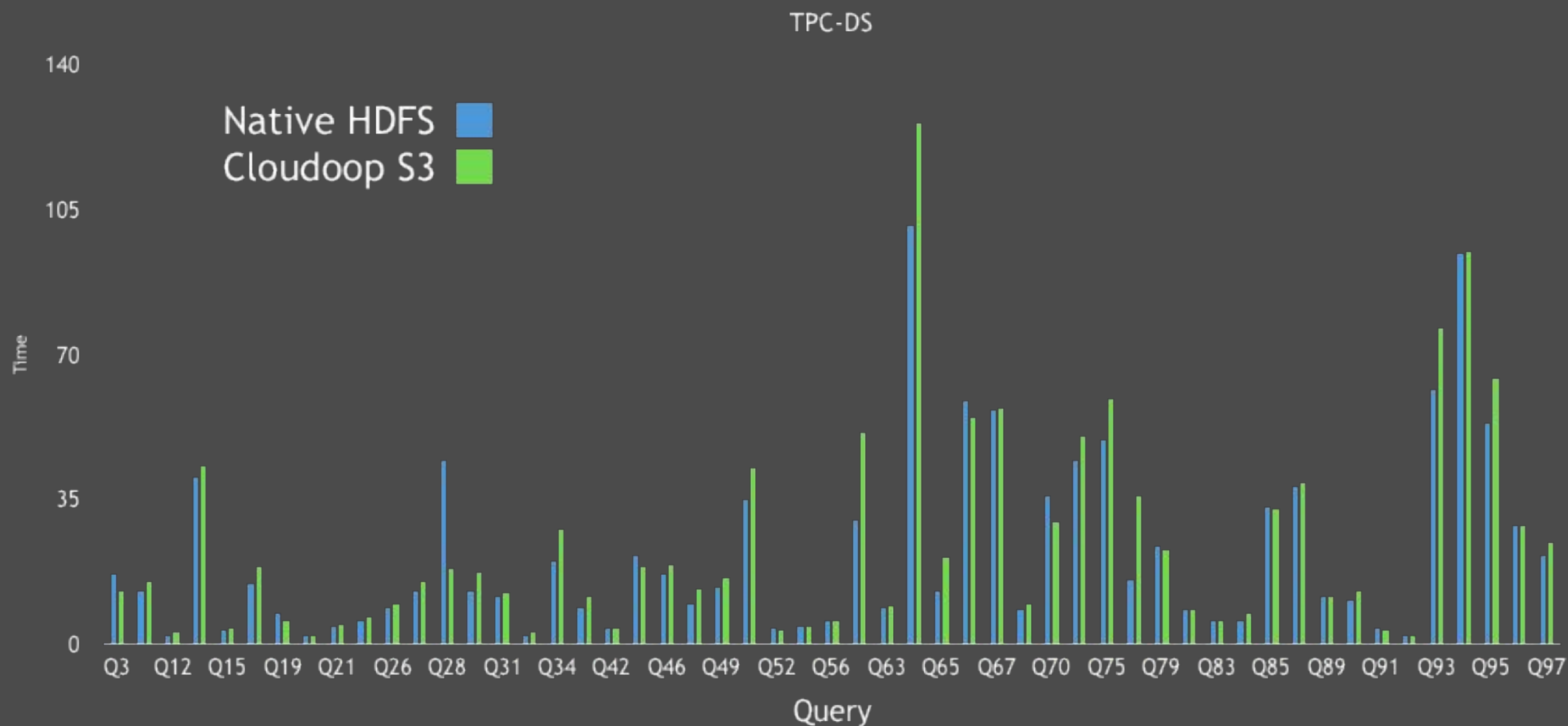


\* Lower is better





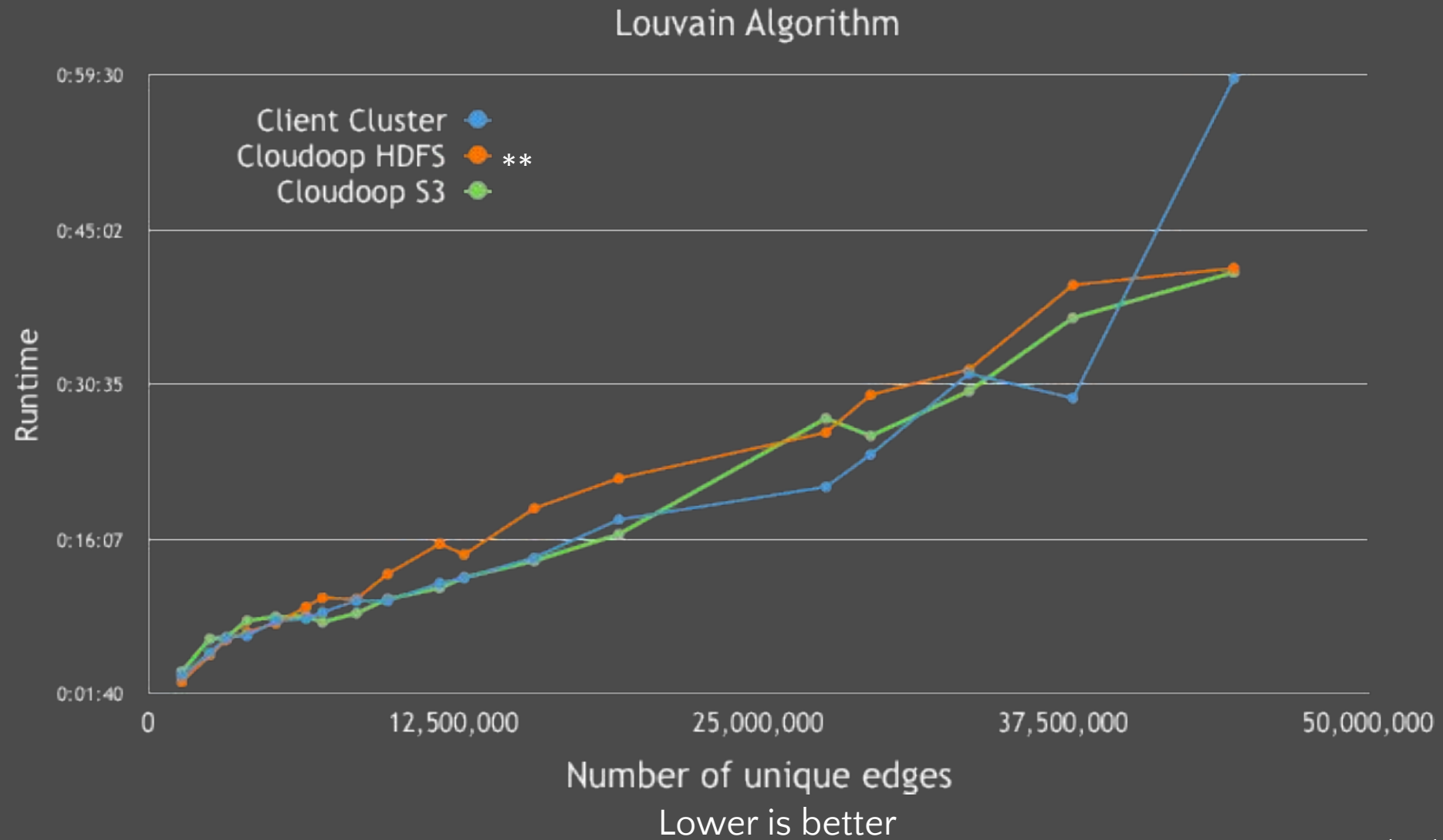
# TPC-DS Benchmarks



Lower is better \*



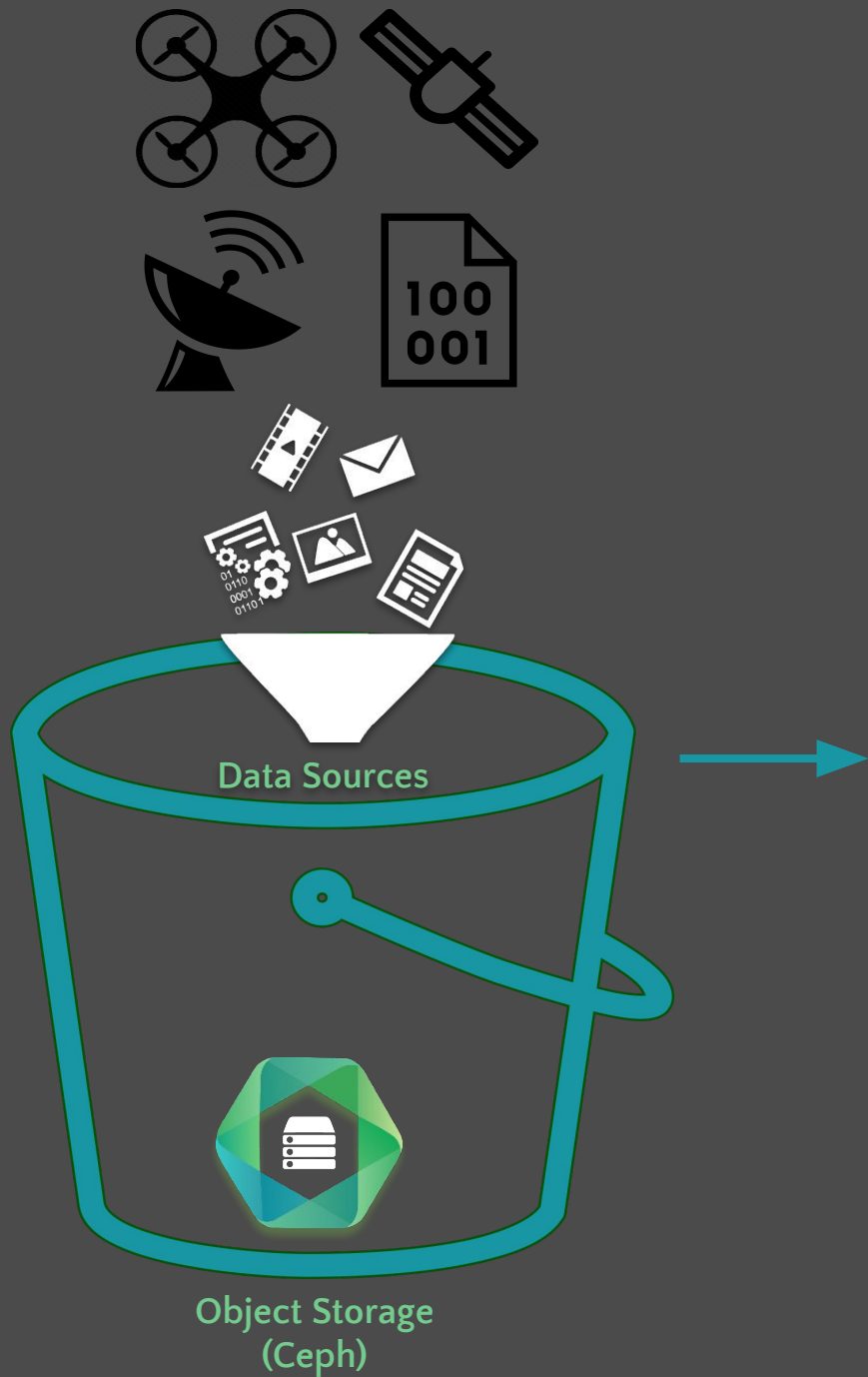
# Testimonials



# Clouddoop – Phase 1

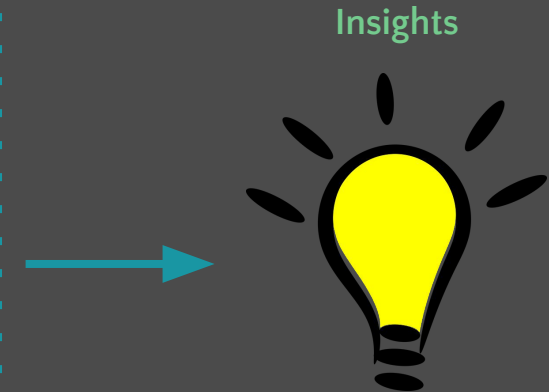
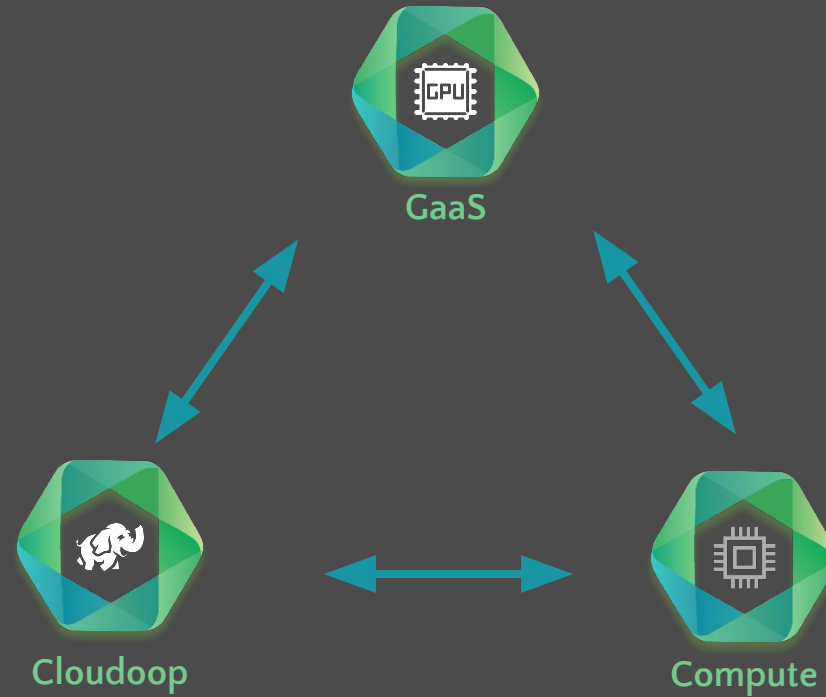
- Versions
  - CDH 5.13
  - Spark 2.2
- APIs
  - Create cluster
  - Delete cluster
  - List clusters
  - Describe cluster
- Fine tuned cluster with full management access





# The Data Factory Vision

Example: Machine learning pipeline



# Strategic partnership

cloudera®



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& MORE



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- At the Storage lockers
- At the Red Hat booth
- At one of Storage dedicated sessions ([red.ht/storageatsummit](https://red.ht/storageatsummit))
- At the Community Happy Hour (Tues 6:30, Harpoon Brewery)
- At the Hybrid Cloud Party (Wed, 7:30, “Committee” restaurant)



**Red Hat OpenShift Container Storage**  
[red.ht/videos-RHOCS](https://red.ht/videos-RHOCS)



**Red Hat data analytics infrastructure solution**  
[red.ht/videos-RHDAIS](https://red.ht/videos-RHDAIS)



**Red Hat Hyperconverged Infrastructure**  
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