cloudera

Deploying Cloudera in the Cloud

Wim Villano, Sales Engineer Cloudera

We believe

We believe your workloads should run wherever they gain the greatest advantage

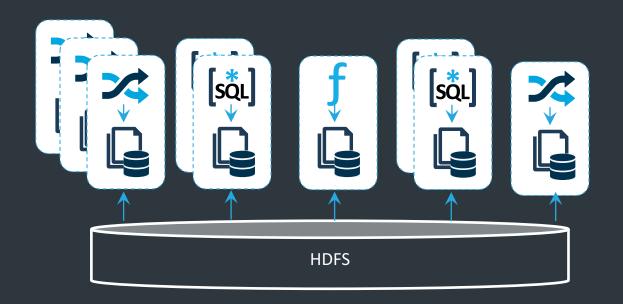


Hybrid/Multi-cloud architecture example



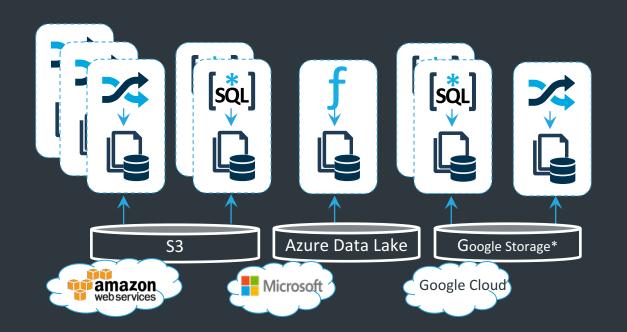
Applications and processes function the same in each environment

Traditional On-prem Workloads Share a Single Cluster





Cloud Leads to Separate Specialized Clusters





What is Cloudera Director?

A tool that customers can use to deploy & manage the lifecycle of Cloudera Enterprise clusters in the cloud

Spin up, grow and shrink, terminate Unified view and management of cloud environments



Fast Cloud-native Deployments

Spin up, grow & shrink, terminate Cloudera clusters that read/write to object store

Easy Administration

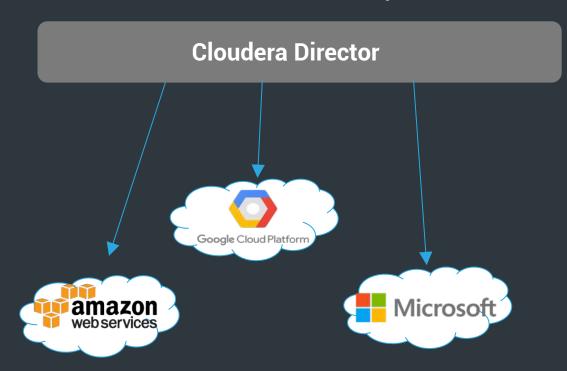
- Dynamic cluster lifecycle management
- Single pane of glass: multi-cluster view
- Create templates to run workloads in a preoptimized manner

Flexible Deployments

- Multi-cloud: AWS, Azure, GCP
- Fast cluster deployments
- Scaling of CDH clusters
- Spot instance support
- Support for EBS volumes and various Azure storage formats

Enterprise-grade

- Integration across Cloudera Enterprise
- Management of CDH deployments at scale





Cloudera Altus

Platform-as-a-service

Now it's easier than ever to process big data in the cloud. Learn more at **cloudera.com/altus**

- Easy
- Agile
- Unified



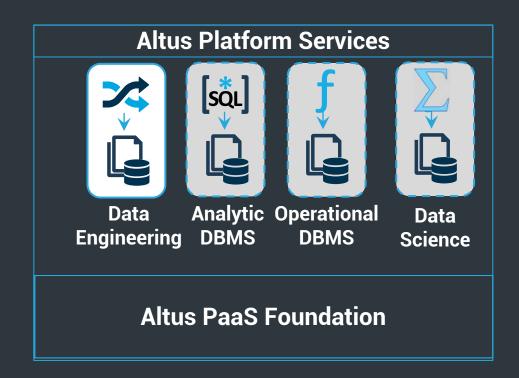
Everything you don't have to do

- Install any software to start working
- Install any hardware
- Worry about cluster configuration
- Upgrade/reconfigure clusters
- OS upgrades/patching
- Resource Management



Cloudera Altus is a PaaS for big data analytics

- Altus is umbrella brand for all of Cloudera's PaaS offerings.
- PaaS foundation acts as framework for building services.
- Altus for data engineers is first user-facing service.



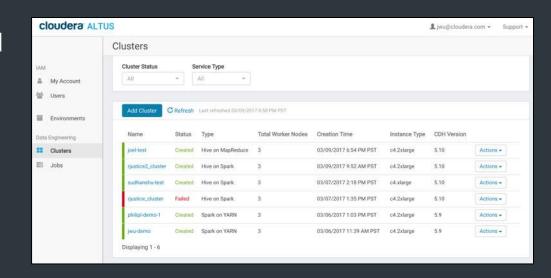




Cloudera Altus for data engineering workloads

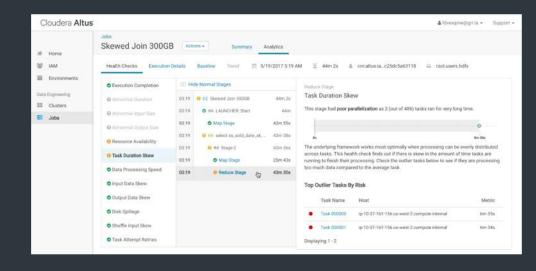
Managed service for workloads such as ETL, machine learning, and data processing:

- Managed transient CDH clusters in customer VPC
- Support for MR2, Hive, Spark, Hiveon-Spark
- Single pipeline batch processing with data on AWS S3 or Azure Data Lake



Workload troubleshooting and analytics

- Troubleshoot jobs after cluster termination through job log and configuration browsing
- Insight into causes of job failure
- Identification and root cause analysis of slow jobs



Altus feature overview

End-user focused

- Manages your cluster so you don't have to
- Job submission CLI/API
- Workload troubleshooting

Cloud-native

- Decouple storage and compute
- R/W Amazon S3/Azure ADLS
- · Spin EC2 clusters up and down

Low cost

- Per-node/per-hour pricing
- Terminate clusters when not in use
- Spot with self-healing

Integrated Platform

- Same Cloudera platform onpremises and in the cloud
- Feed cleaned data into Impala clusters for BI analytics
- Share metadata across clusters

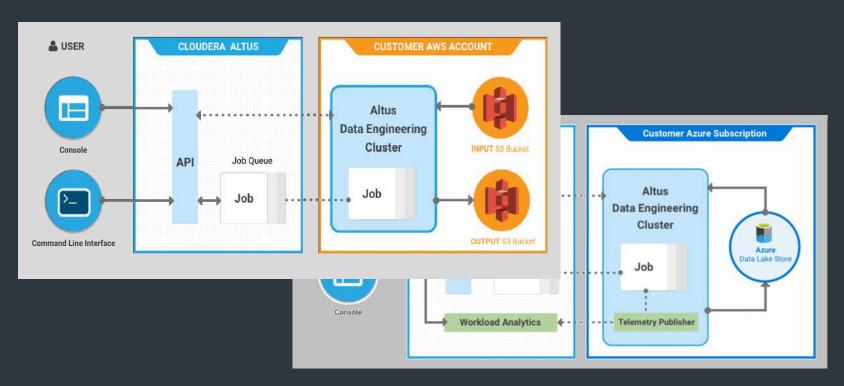
Secure

- Integrated with AWS security
- No Cloudera access to customer data
- Support for multi-AWS accounts
- Admin and end-user accounts

Easy to use

- Self-service for end-users
- Cloud console + familiar tools
- Cluster provisioning in minutes

Altus Service Architecture

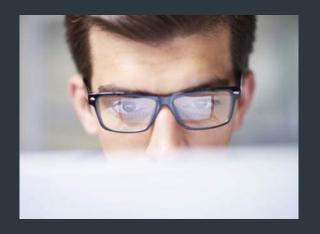


Altus & Director – when to use which?

	Altus	Director
Automated log saving	X	
Automated Cluster spin up / down (no extra coding)	X	
Data Engineering – Hive, Spark, HoS, MR	X	X
Production Job Driven	X	
Workload Analytics	X	
Cluster Duration	Purely Transient	Transient OR Persistent
Job Development / Exploration		Х
3 rd Party Installations		Х
Full Control of CM		Х
Analytical / Operational - Impala, HBase, Search		X
Persistent (or Transient)		Х
Grow / Shrink Cluster		Х



Get started







Cloudera Altus

Convenient, easy-to-use, fully integrated PaaS for ETL and pipeline development

Cloudera Director

Tool for managing long-running Cloudera clusters in the cloud environment of your choice

Azure Marketplace

Provision and deploy Cloudera on the Azure Marketplace

Altus Demo

The Scenario

My Role: Data Analyst at DataCo – a Sports Retailer

Business Issue: Experiencing lower than expected website sales. Why?

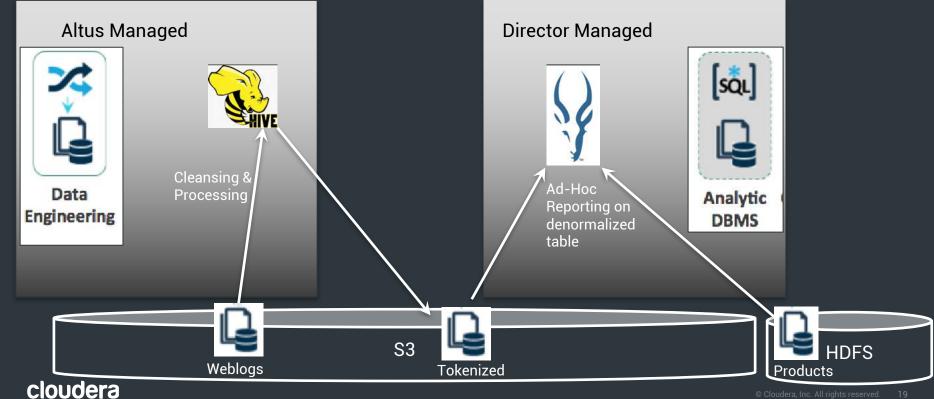
Technical Issues: Current cluster resources are fully consumed querying sales data

Limited budget for weblog analysis - not enough for expansion

Requirements: Just need a temporary platform to process weblogs once a day

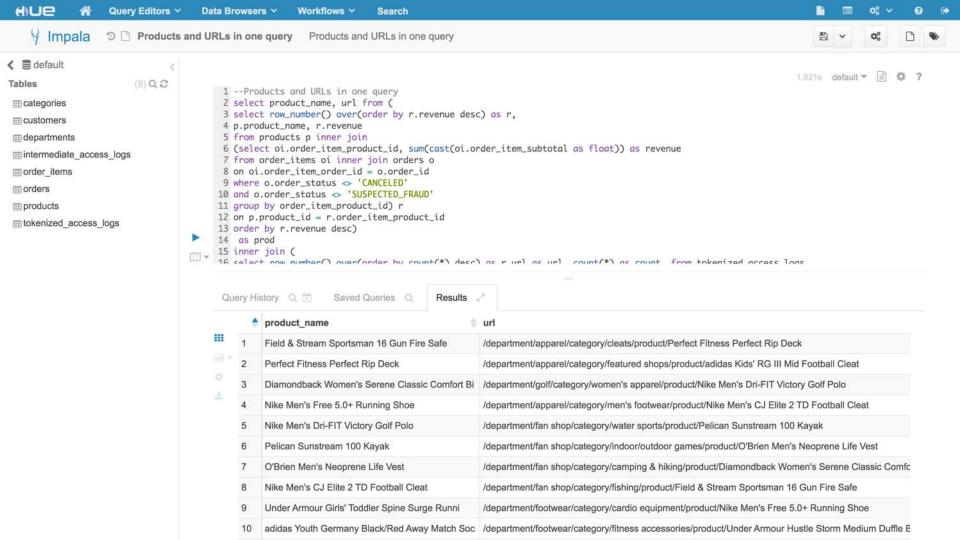
Ability to join processed weblogs to order data

Cloudera Altus for data engineering workloads Director for Impala Interactive Workloads



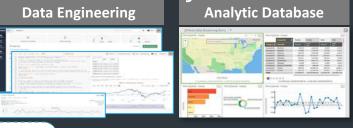
Thank you





Cloudera: Modern Platform for Data Management and Analytics









Common: Operations, Governance, Security, Schema, Catalog

Object Store

ZON rvices S3

Microsoft

Object Store