

cloudera

ALTUS Platform-as-a-Service

Votre stratégie Big Data dans le cloud public avec l'offre PaaS Cloudera Altus

Deployment types

Managed for you



On-prem

Application

Data

Runtime

Middleware

OS

Virtualization

Servers

Storage

Networking



Infrastructure as a Service

Application

Data

Runtime

Middleware

OS

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Platform as a Service

Application

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Software as a Service

Application

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Shift to the cloud

50% of the market by 2019

Managed for you



On-premise

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Infrastructure as a Service

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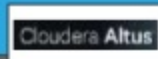
OS

Virtualization

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Platform as a Service

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Software as a Service

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451 Research

EMA end-user survey respondents indicated the #1 obstacle to cloud implementations is 'increased complexity'.

Source: "Charting the Expanding Horizons of Big Data", Enterprise Management Associates,

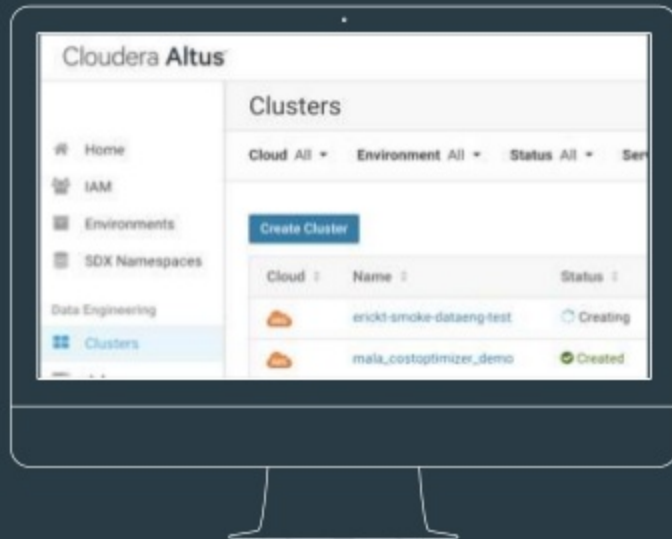
<http://www.enterprisemanagement.com/research/asset.php/3339/Charting-the-Expanding-Horizons-of-Big-Data>

CLOUDERA ALTUS - SELF-SERVICE

Our customers want choices

Everything you don't have to do:

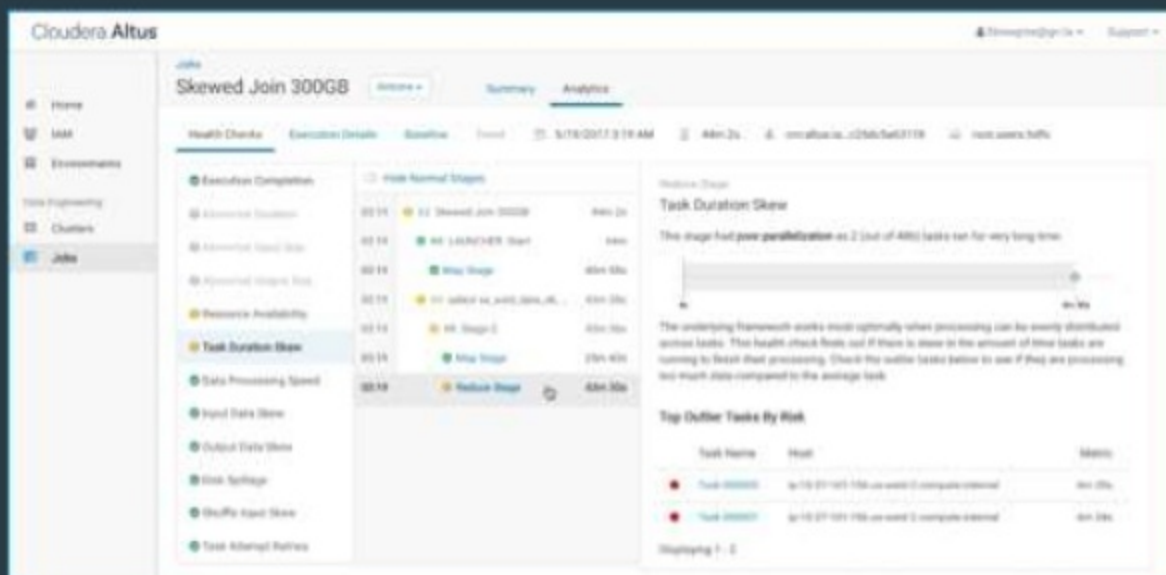
- Install any software
- Install any hardware
- Worry about cluster configuration
- Upgrade/re-configure clusters
- OS upgrades/patching
- Resource Management



Altus Workload Analytics

Troubleshoot Issues Faster and Easier

- Get insight into causes of job failure
- Size clusters and optimize job performance
- Identify issues even when they don't show up as errors



CLOUDERA ALTUS

Product Overview

Machine learning
and analytics
Platform-as-a-Service
with Shared Data
Experience

MULTI FUNCTION



DATA ENGINEERING



ANALYTIC DB



DATA SCIENCE



SECURITY

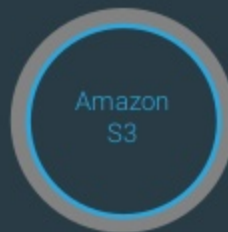
GOVERNANCE

WORKLOAD
MANAGEMENT

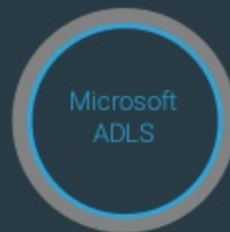
INGEST &
REPLICATION

DATA CATALOG

MULTI CLOUD



Amazon
S3



Microsoft
ADLS

CLOUDERA ALTUS

Key Differentiators

- **Multi-cloud:** Job focused PaaS offering with pre-tuned configurations across AWS and Azure (GCP on roadmap)
- **Multi-function:** Unified platform for data engineering, analytic database, and data science (pre-launch)
- **SDX:** Integrated shared data experience across multi-function clusters

CLOUDERA ALTUS

Product Family

Altus Data Engineering

Self-service PaaS for Data Engineers

Transient, single-tenant

Hive Spark or MapReduce cluster

ETL jobs, batch processing

Fast and easy job submission
without cluster management

Available on AWS and Azure

Altus Analytic Database

Self-service BI for analysts

Long lived, multi-tenant

Impala cluster

Data warehousing, analytics

Provides fast and easy analytics
without cluster management

Beta available on AWS and Azure

Altus SDX

Cloud native shared metadata store

Shared cataloging

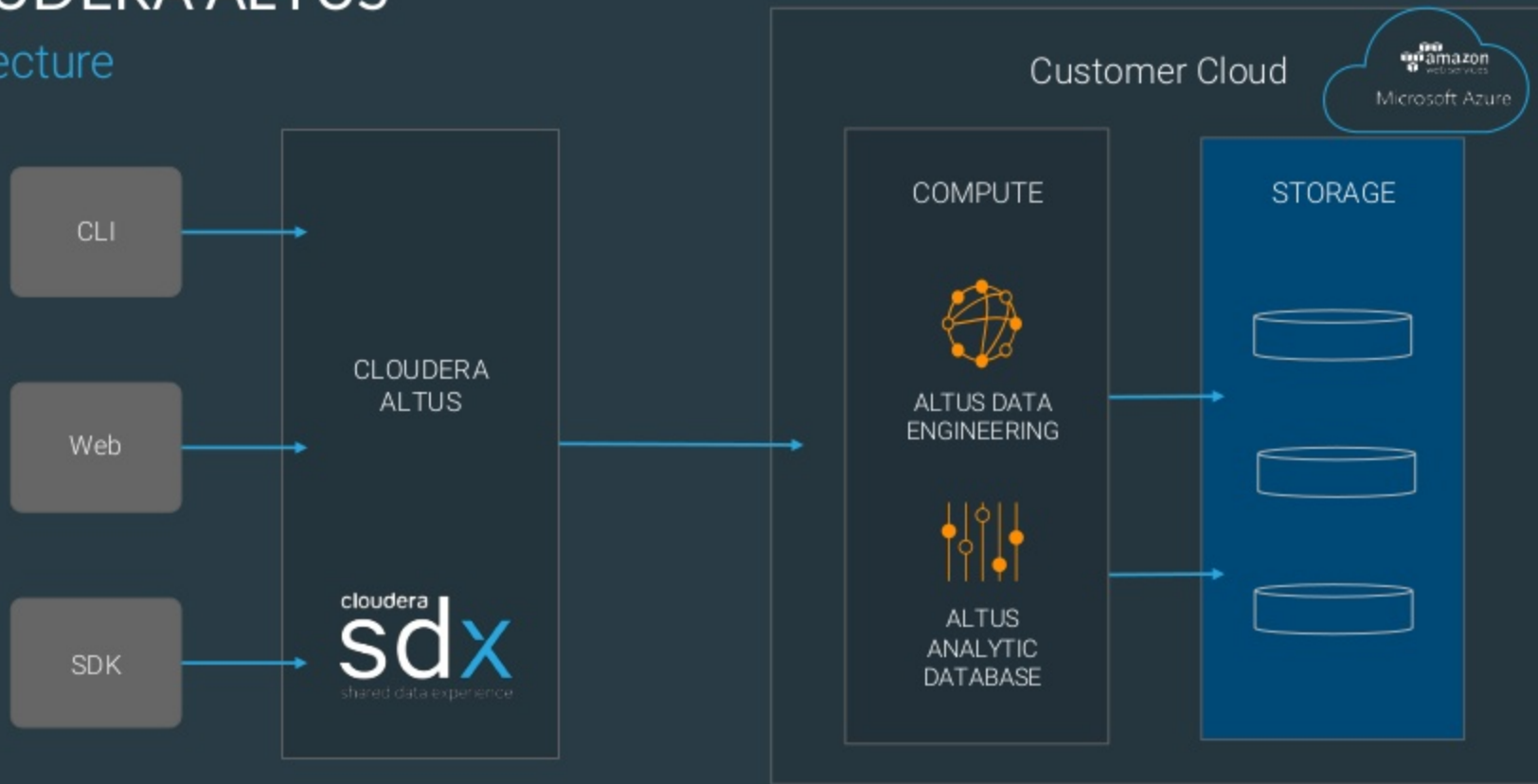
Define and preserve structure and
business context

Unified security & governance across
transient, long-lived, and recurring
workloads

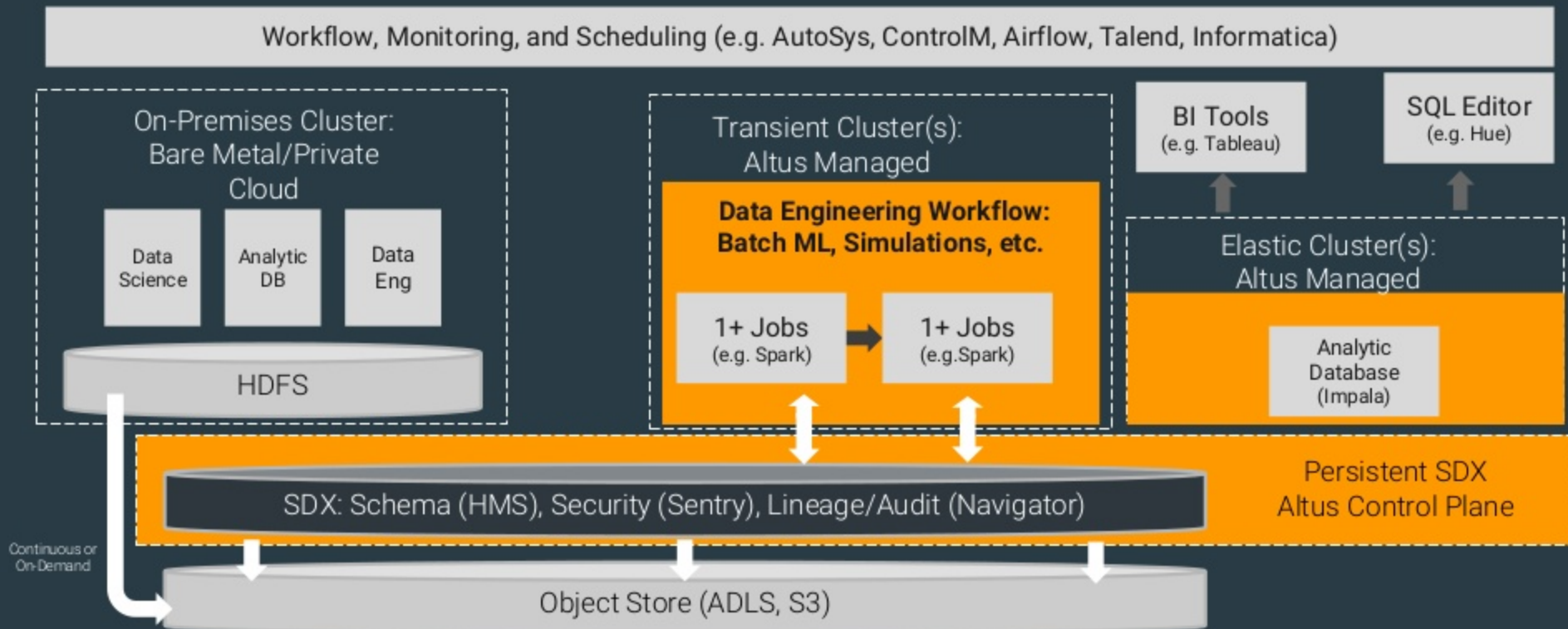
Beta available on AWS and Azure

CLOUDERA ALTUS

Architecture



ALREADY USING CLUSTERA : just go Hybrid !



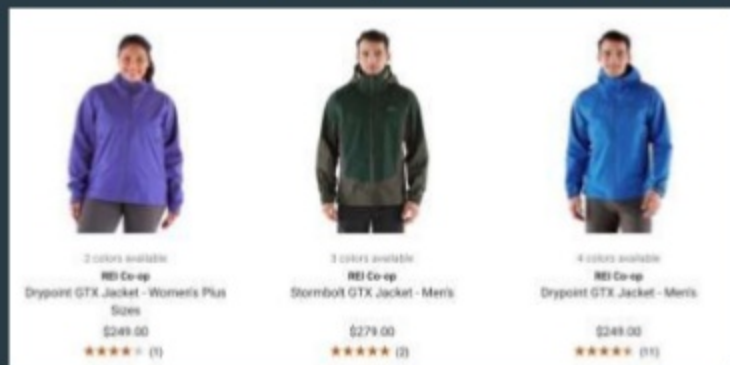
ALTUS DEMO

Setting the scene

Solving a business need

- We work for an outdoor clothing retail company and website sales are struggling
- We need to figure out whether sales orders correlate with website visits and what steps we can take to improve sales
- We'll architect and price out clusters, set up a data pipeline, run analytics on the data, and then troubleshoot common problems

1) Data Exploration and Analytics on Sales Orders



ANALYTIC
DATABASE

ALTUS SDX

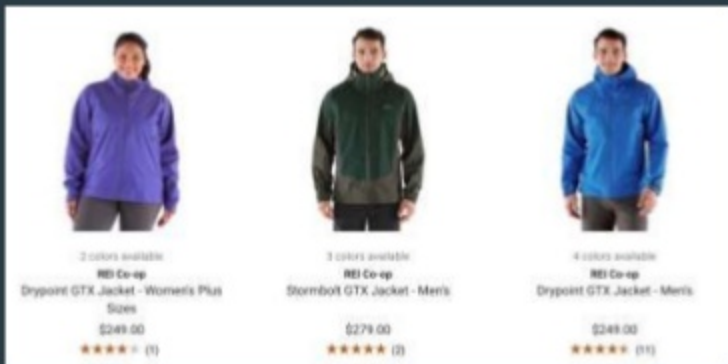


Sales Orders

- ☐ customers
- ☐ departments
- ☐ order_items
- ☐ orders
- ☐ products



2) Data Pipeline - Prepare and clean the web logs



DATA ENGINEERING

ALTUS SDX

Sales Orders

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Raw Logs

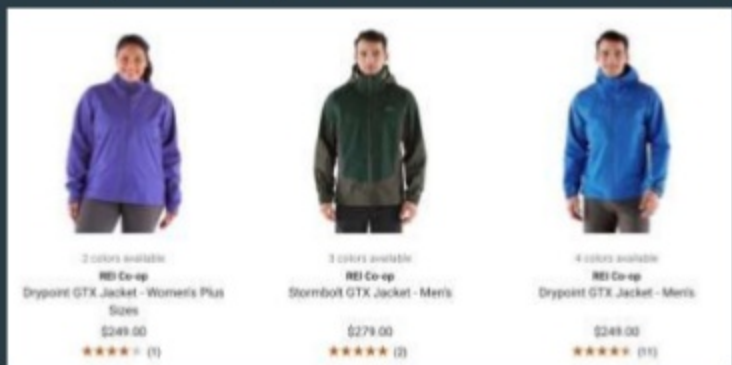
[illegible]

Tokenized logs

IP Address	Timestamp	Department	Product
79.133.215.123	14/Jun/2014:10:30:13 -0400	Water sports	Sunscreen
162.235.161.200	14/Jun/2014:10:30:13 -0400	Footwear	Football cleat
39.244.91.133	14/Jun/2014:10:30:13 -0400	Kids	Shorts
150.47.54.136	14/Jun/2014:10:30:13 -0400	Apparel	Jacket
217.69.38.129	14/Jun/2014:10:30:13 -0400	Outdoors	Umbrella
36.44.59.115	14/Jun/2014:10:30:13 -0400	Bedding	Pillow cases
79.133.215.123	14/Jun/2014:10:30:13 -0400	Water sports	Sunscreen
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150.47.54.136	14/Jun/2014:10:30:13 -0400	Apparel	Jacket
217.69.38.129	14/Jun/2014:10:30:13 -0400	Outdoors	Umbrella
36.44.59.115	14/Jun/2014:10:30:13 -0400	Bedding	Pillow cases



3) Analytics on orders and site visits

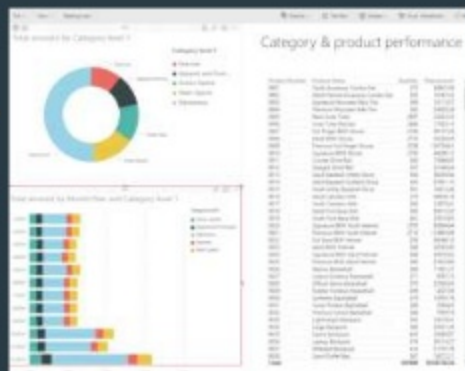


DATA
ENGINEERING



ANALYTIC
DATABASE

ALTUS SDX



Sales Orders

- ☐ customers
- ☐ departments
- ☐ order_items
- ☐ orders
- ☐ products

Raw Logs

```

{"@version": 1, "ip": "192.168.1.1", "timestamp": "2014-06-14T10:30:13.000Z", "department": "Water sports", "product": "Sunscreen", "order_id": 1, "customer_id": 1, "order_items": [{"product_id": 1, "quantity": 1}], "order_status": "Completed", "order_total": 10.99, "customer_email": "john.doe@example.com", "customer_phone": "555-555-5555", "customer_address": "123 Main St, New York, NY 10001"}
    
```

Tokenized logs

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Start running your data pipelines in the cloud quickly and easily with Cloudera Altus Data Engineering.

[FREE 30-DAY TRIAL](#)

Cloudera Altus

Focus on insights. We handle the big data software.

The industry's first machine learning and analytics platform-as-a-service built with a shared data experience.

[FREE TRIAL](#)

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THANK YOU

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