CLOUDERA

Cloudera Data Engineering

The Enterprise Solution for Modern Data Engineering

Cloudera Team

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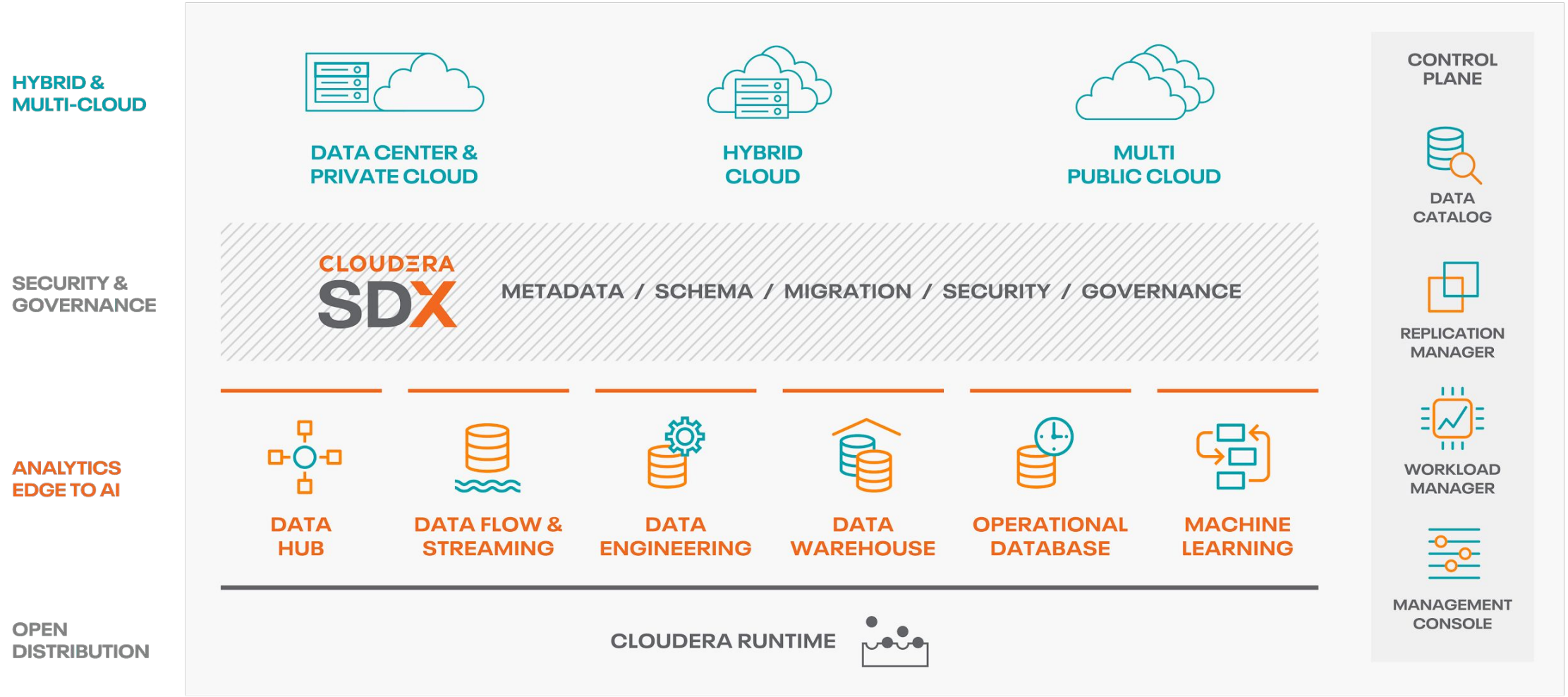
AGENDA

- **Introductions**
- **Cloudera Data Engineering - Overview (25 minutes)**
- **Workshop Overview & Detailed Instructions (20 minutes)**
- **Hands-on exercises (90 minutes)**
- **Q&A (throughout the workshop)**

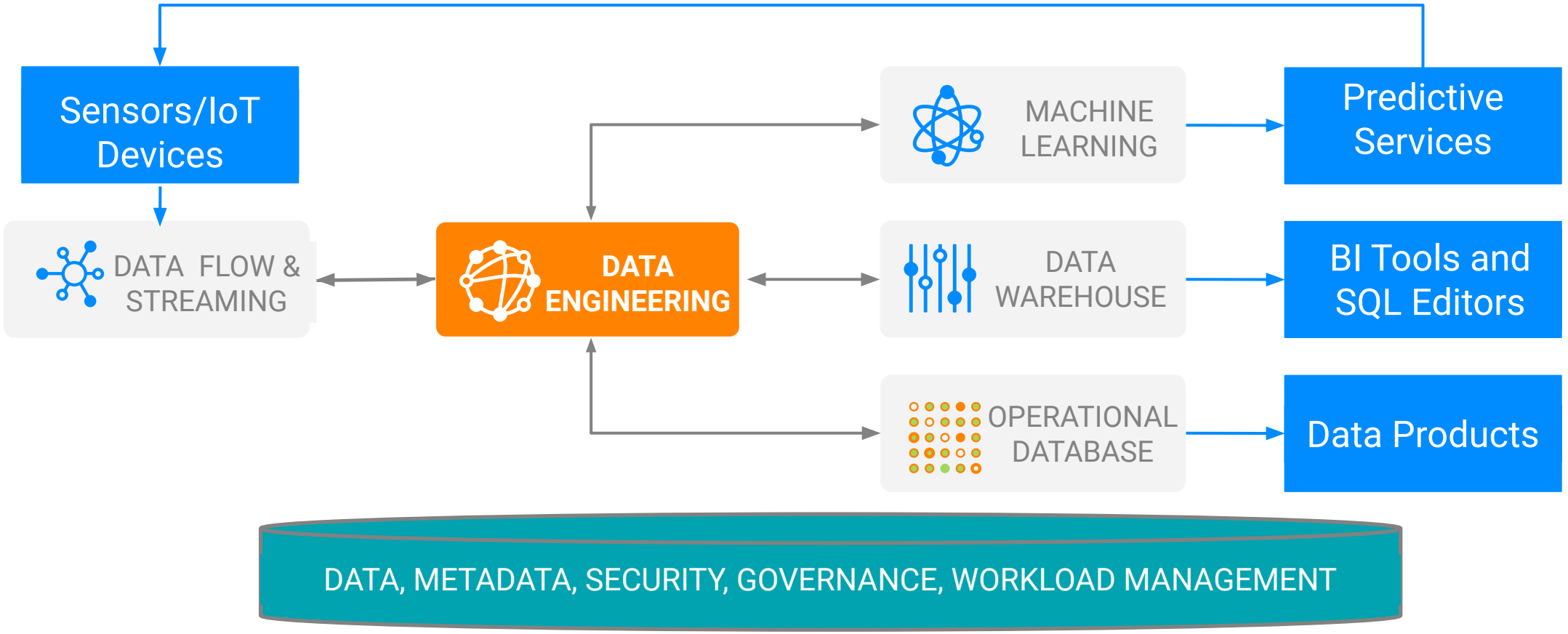
Cloudera Data Platform

CLOUDERA DATA PLATFORM

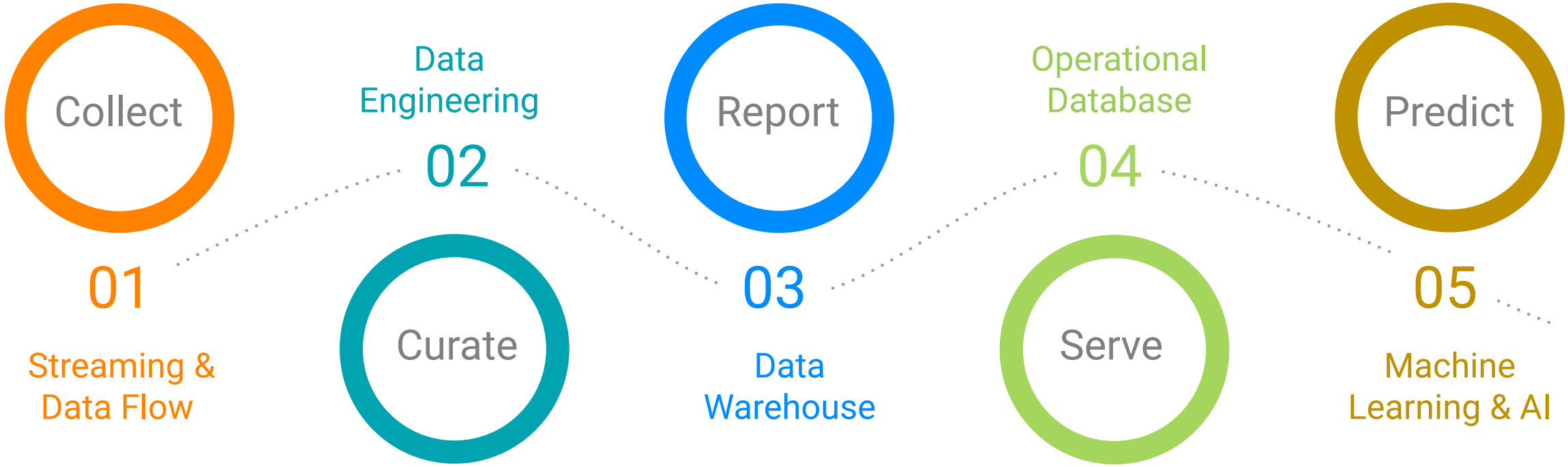


DATA ENGINEERING IS CENTRAL

To Powering Business Analytics, ML, and Data Products



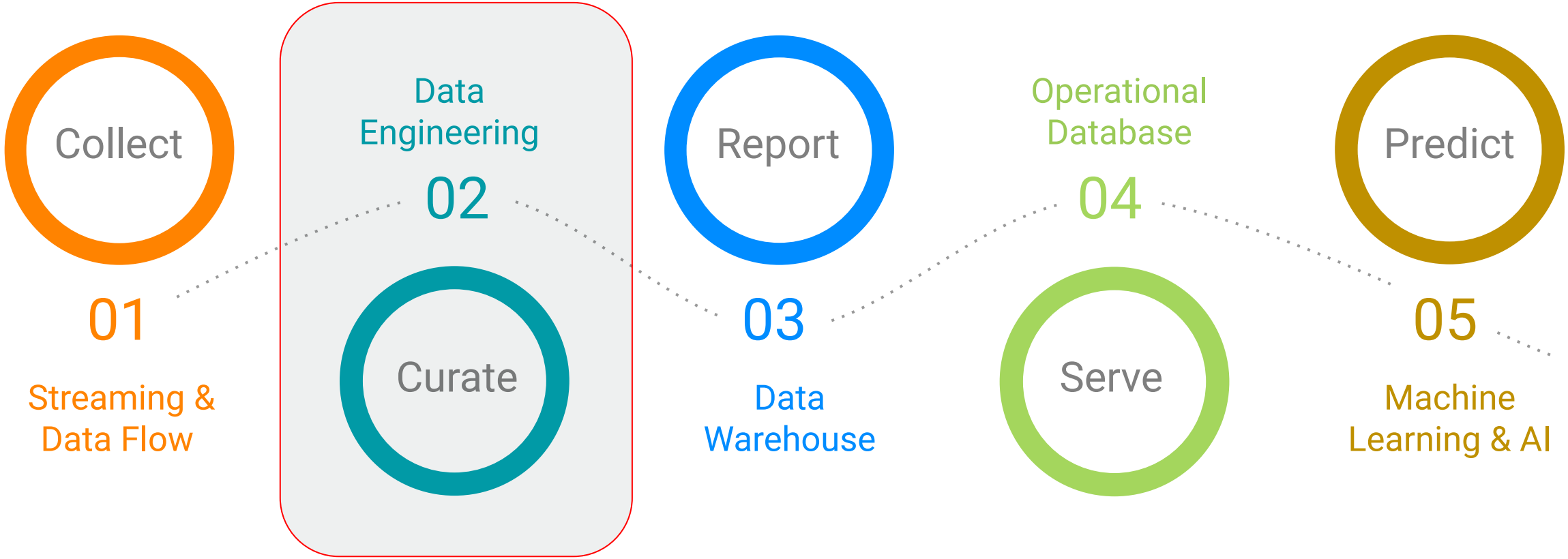
DATA ENGINEERING WITHIN THE DATA LIFECYCLE



POWERED BY CLOUDERA SDX

Security | Governance | Lineage | Management | Automation

DATA ENGINEERING WITHIN THE DATA LIFECYCLE

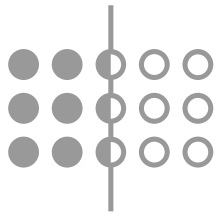


POWERED BY CLOUDERA SDX

Security | Governance | Lineage | Management | Automation

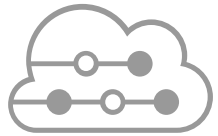
THE CHALLENGES WITH TRADITIONAL DATA ENGINEERING

Managing Spark Resources



Orchestrating Complex Pipelines

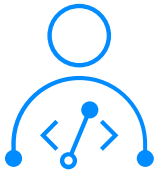
Visibility & Troubleshooting



Secure & Fast Delivery

CLOUDERA DATA ENGINEERING

An Integrated, Purpose Built Experience for Data Engineers

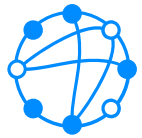


OPTIMIZED FOR DATA ENGINEERS

Streamlined service for scheduling, monitoring, debugging, and promoting data pipelines quickly & securely.

EVERYTHING YOU NEED TO POWER ANALYTICS

- Inherited governance
- Deliver data pipelines to CDW, CML, or COD easily
- Portable and flexible



COMPLETE DATA PIPELINE MANAGEMENT

- Monitoring & alerting for catching issues early
- Visual troubleshooting
- Governed and secure workflows with SDX

CLOUDERA DATA ENGINEERING

Spark run time

CLOUDERA DATA ENGINEERING

Platform operations	Autoscaling	1-click provisioning	Containerized & Isolated	Monitoring (Prometheus /Grafana)	Mix version
Spark run time					

CLOUDERA DATA ENGINEERING

Job management	Orchestration w/Airflow	Self-service visual troubleshooting	Dependency management	Artifact Versioning	Automatic lineage
Platform operations	Autoscaling	1-click provisioning	Containerized & Isolated	Monitoring (Prometheus /Grafana)	Mix version
Spark run time					

CLOUDERA DATA ENGINEERING

Seamless Integration

Management UI	CLI	API

Job management	Orchestration w/Airflow	Self-service visual troubleshooting	Dependency management	Artifact Versioning	Automatic lineage
Platform operations	Autoscaling	1-click provisioning	Containerized & Isolated	Monitoring (Prometheus /Grafana)	Mix version
Spark run time					

CLOUDERA DATA ENGINEERING

Seamless Integration

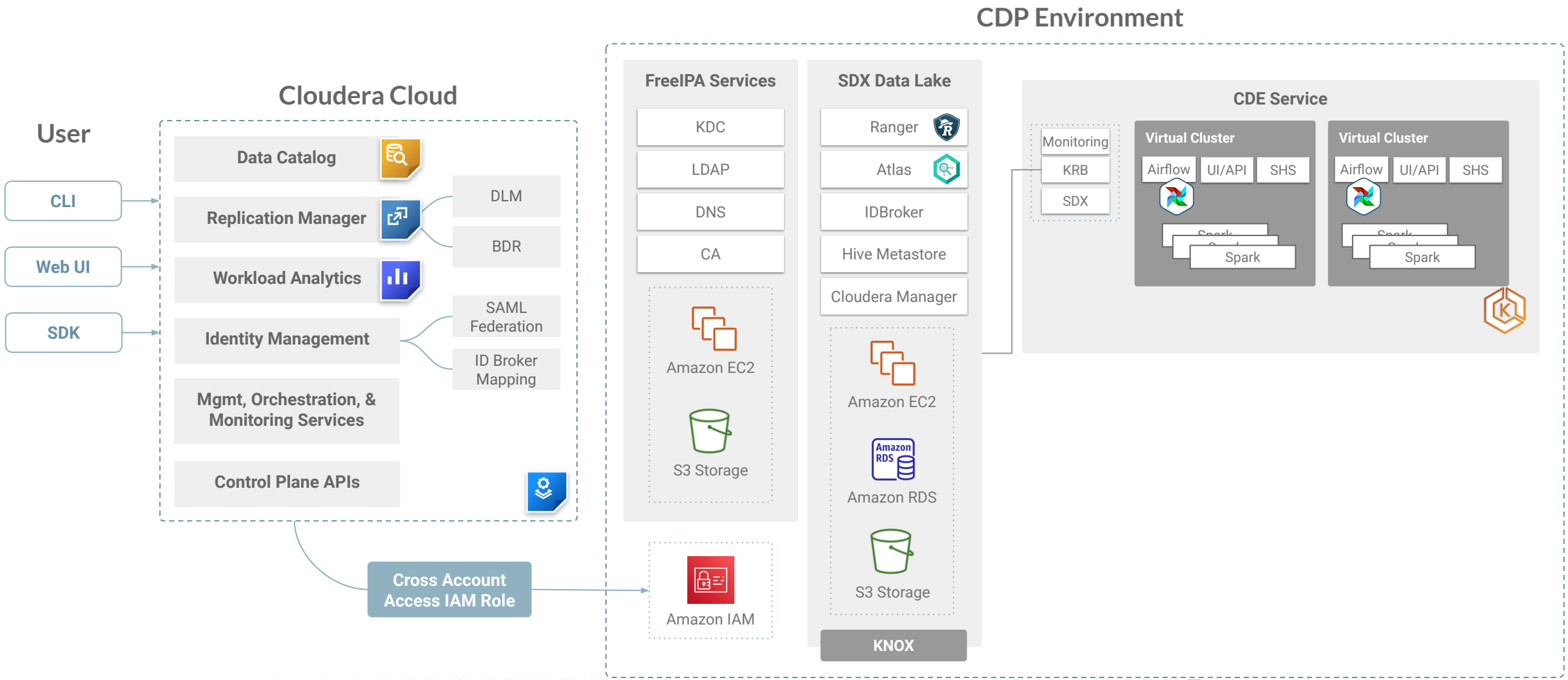
Management UI | **CLI** | **API**

Job management	Orchestration w/Airflow	Self-service visual troubleshooting	Dependency management	Artifact Versioning	Automatic lineage
Platform operations	Autoscaling (Yunikorn)	1-click provisioning	Containerized & Isolated	Monitoring (Prometheus /Grafana)	Mix version
Spark run time	Apache Spark + Kubernetes				

Data anywhere

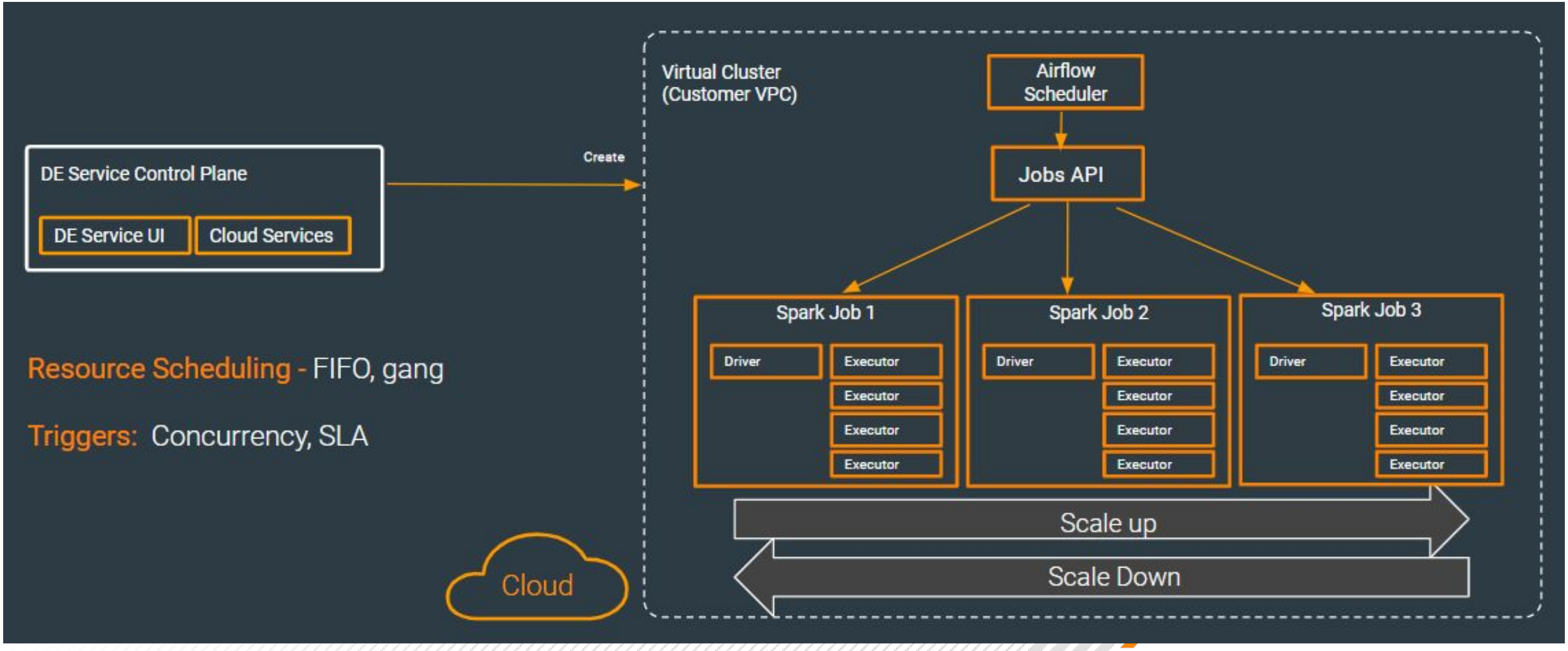
CLOUDERA SDX — METADATA / SCHEMA / MIGRATION / SECURITY / GOVERNANCE

CDP - AWS HIGH LEVEL ARCHITECTURE



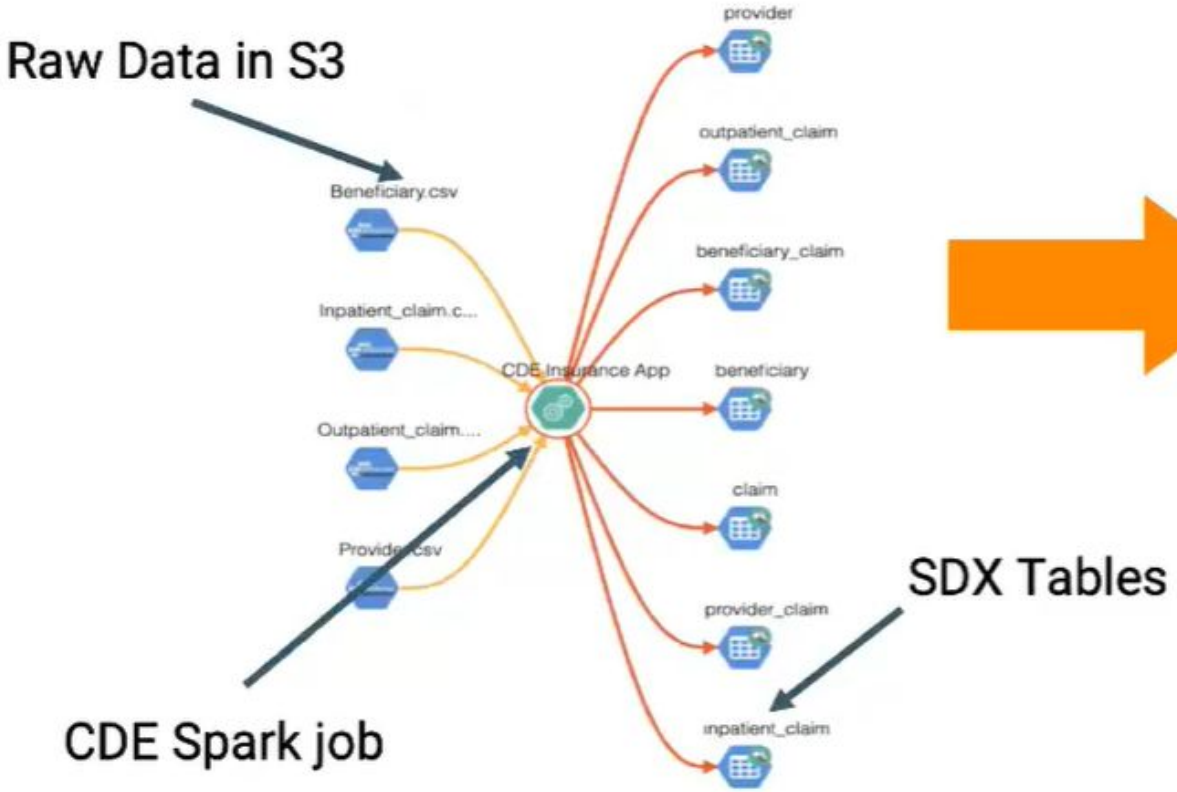
CDE Environment Scaling

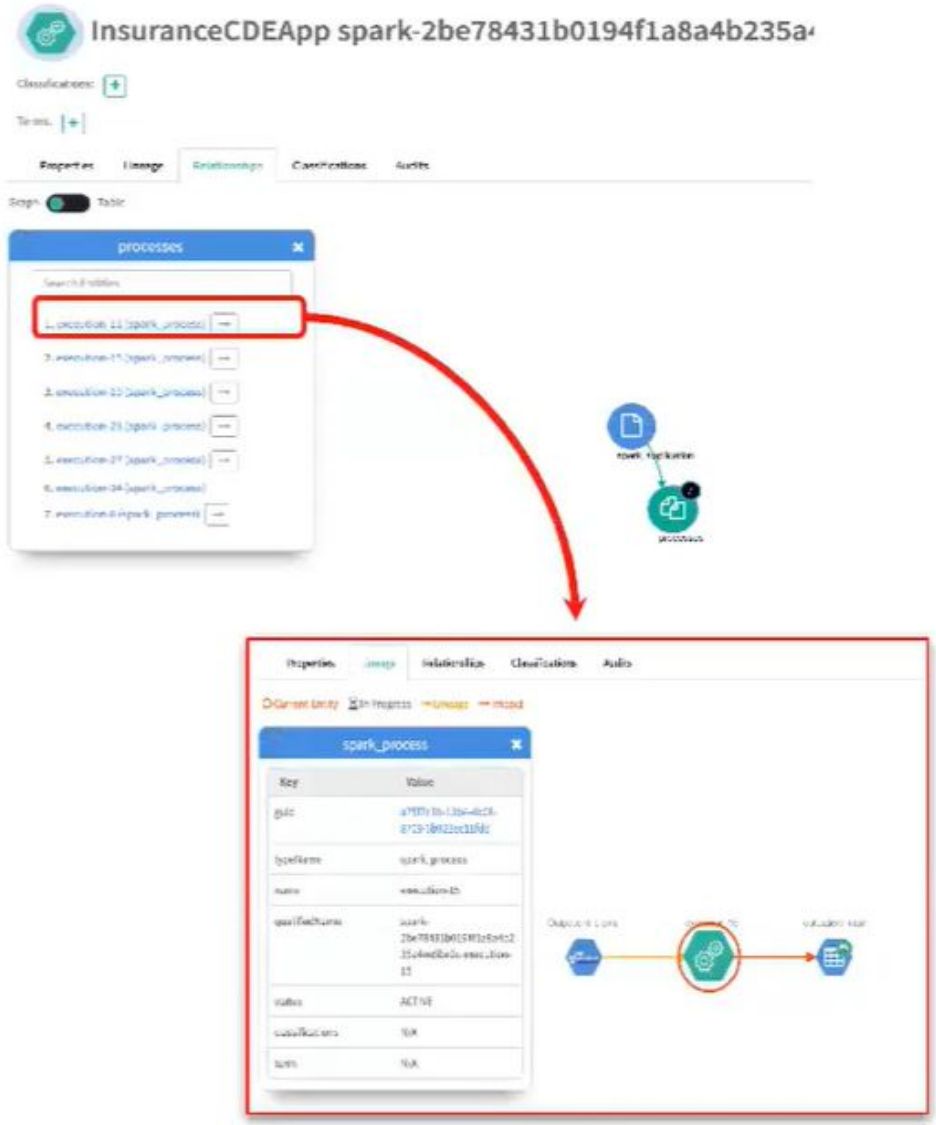
Automatic Resource Scaling



SPARK ATLAS CONNECTOR

Better spark session lineage
Single to Multi-process entities





THANK YOU

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