

Connect

Cloudera e OpenShift: democratizzare e modernizzare l'analitica di scala dei dati col piu' avanzato Data Lakehouse del mercato

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CLOUDERA

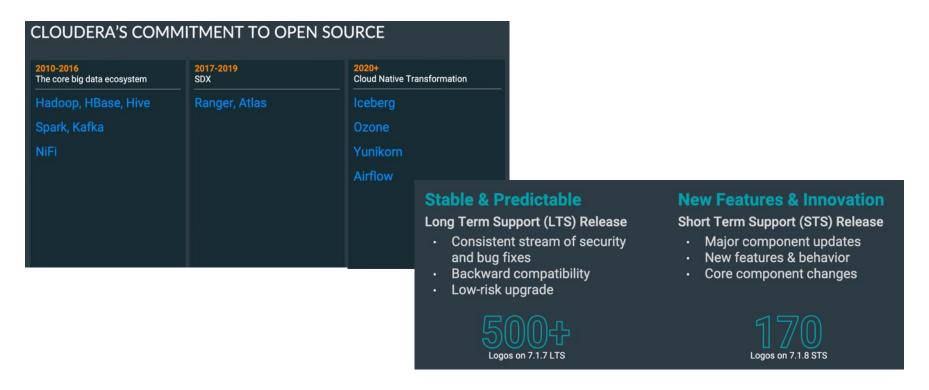


- Cloudera is committed to Open Source
- CDP allows you to streamline and simplify data management with a single pane of glass.
- Cloudera serves 9 of the 10 top customers in financial services, retail, manufacturing, and telco.

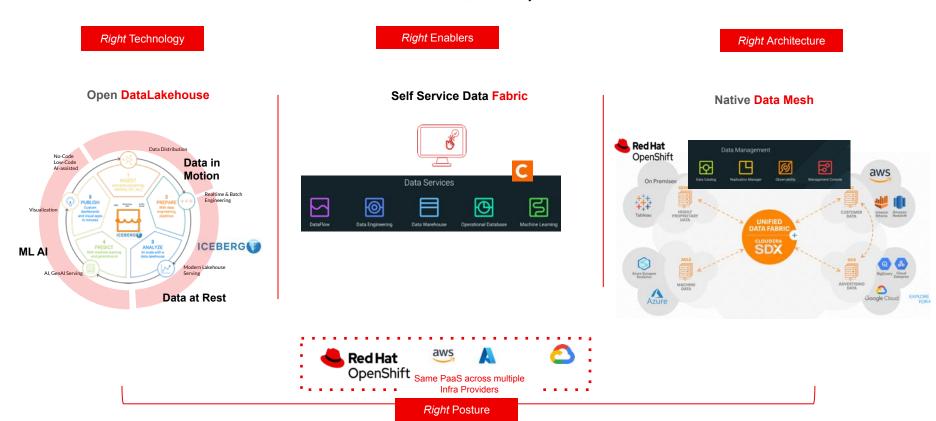
- Leader in open source enterprise IT solutions
- Open source driven developer community
- Trusted enterprise IT partner to the Fortune 500

CLOUDERA COMMITS TO OPEN DATALAKE INNOVATION

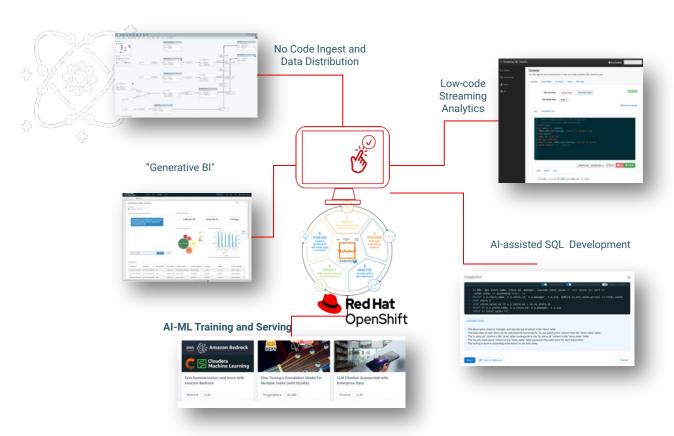
Driving Community OSS Innovation, not just "using" it



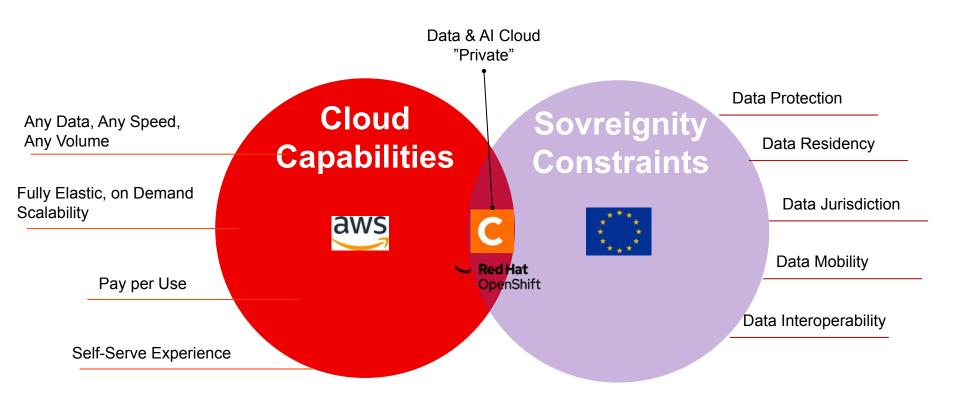
CLOUDERA CDP is a Modern Data Platform, ready for Data-Driven Innovation



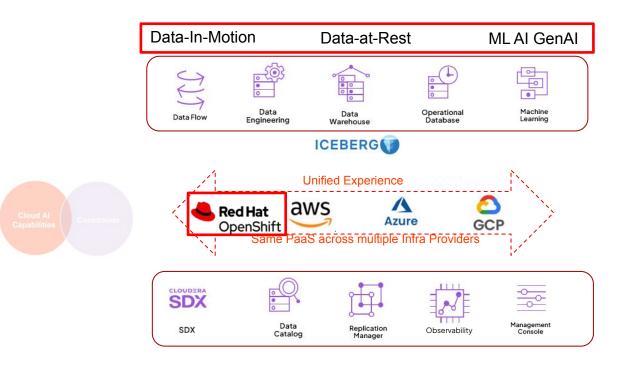
Cloudera on-prem Data Services powered by Openshift: the most advanced data platform on customer premises



Sovereignty and Innovation: a play of capabilities & constraints



Cloudera and OpenShift – Uniquely positioned for Strictest Sovereign Needs

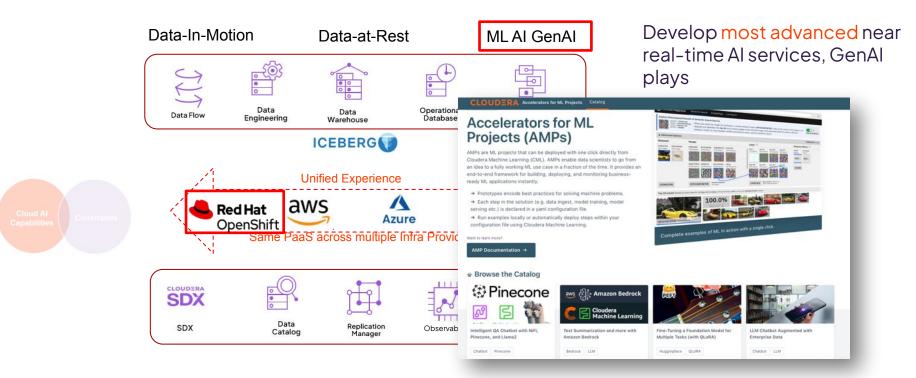


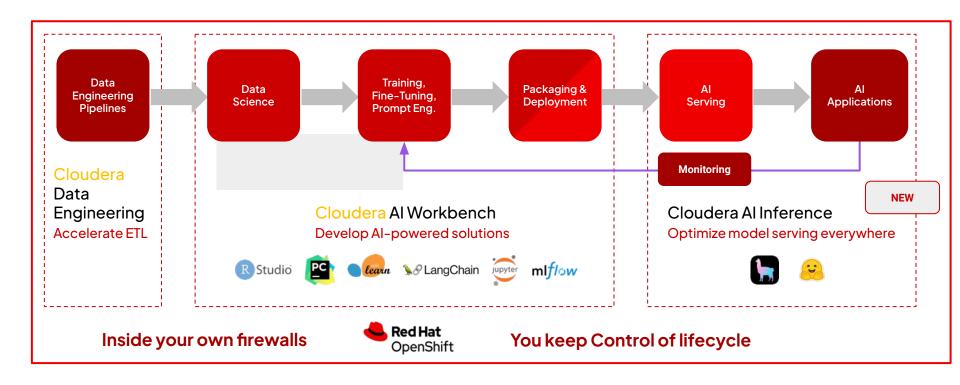
Develop most advanced near real-time Al services, GenAl plays

... Under your strict jurisdiction and residency control

... without missing a self-service, PaaS elastic development experience

... with open, interoperable standard language & data format which is reusable anywhere







2nd

Largest financial services group in Southeast Asia

Cloudera Data Platform (CDP) to

build a data lake in a private cloud environment

Top 50

Ranked among the World's Safest Banks by Global Finance

CDP Machine Learning running on Red Hat[®] OpenShift[®]

to power its enterprise data science platform

One

Of the most highly rated banks in the world

Utilized **Data Lakehouse Architecture**

The Challenge

- Pressure from rivals to be more innovative
- Market in Southeast Asia becoming increasingly digitized
- Consumer looking for better experiences

The Goal

- Leverage private cloud for data platform
- Deliver secure, controlled, personal data experience.
- Use (AI/ML) to make data-driven decisions to improve customer experience

The Results

Using Red Hat OpenShift with Cloudera CDP

100

Million SGD

OCBC Bank's Next Best Conversation platform helped earn annually by using data to curate personalized experiences for customers

2X

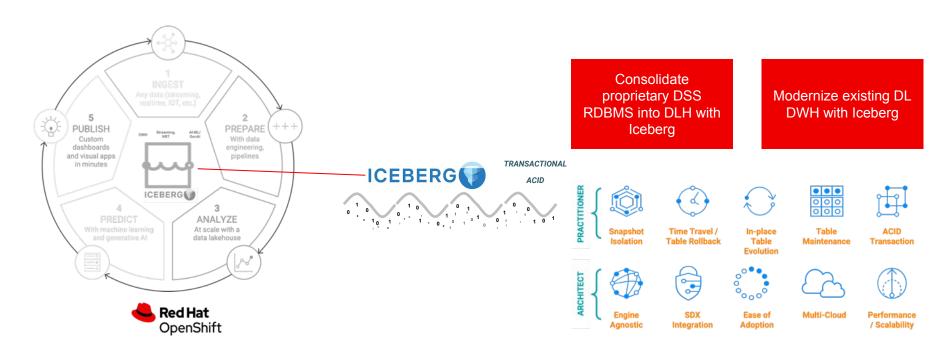
campaign conversion rates

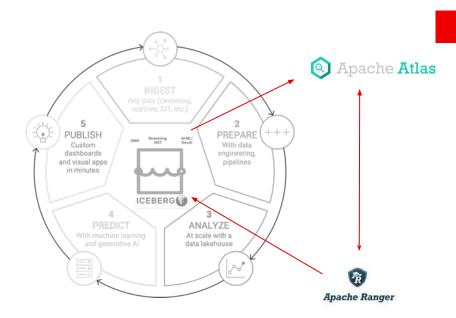
Is how much Next Best Conversation increased campaign conversion rates with more relevant personalized offers.

10%

Chatbot handles online transactions

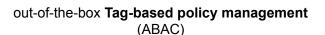
Banking customers enjoy faster transactions with the aid of the bank's chatbots, which handles 10% of its customers interactions online





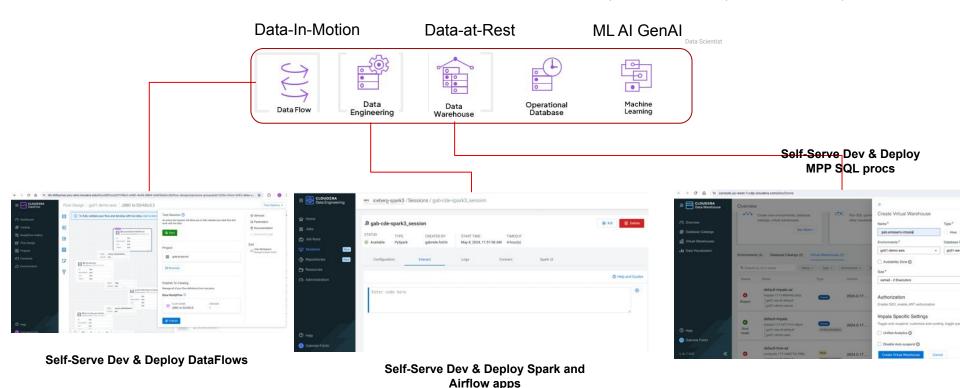
Data Stewardship and Governance out of the box

All Assets are automatically harvested (with their lineage) and searchable

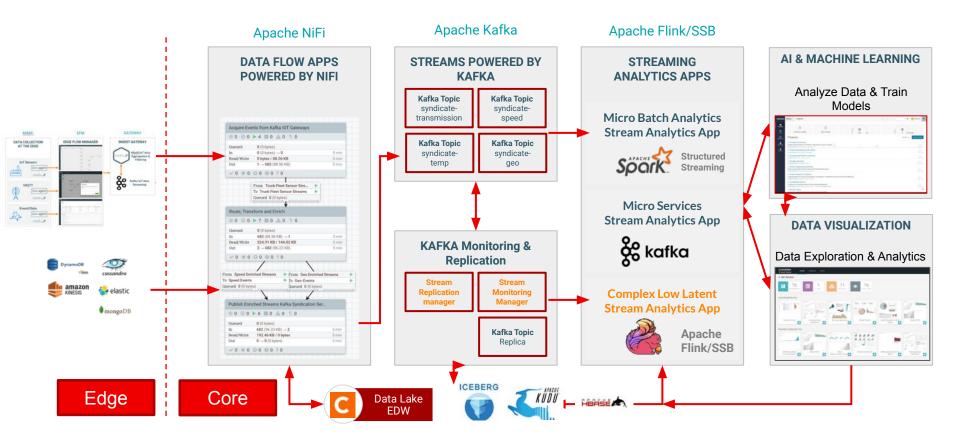


All Assets are **securable** from a single Policy Engine

https://www.cloudera.com/products/cloudera-data-platform.html?tab=1



Data in Motion: e2e enablers for most advanced streaming analytics



CSM Operator - Key Capabilities





Deploys & Manages Kafka

Create Kafka clusters in minutes in your Kubernetes infrastructure





Includes Cruise Control

Cruise Control takes care of Kafka health and cluster rebalances

```
my-rebalance
Namespace:
              myproject
              strimzi.io/cluster=my-cluster
             API Version: kafka.strimzi.io/vlalphal
Kind:
              KafkaRebalance
Metadata:
# ...
Status:
  Conditions:
   Last Transition Time: 2020-06-04T14:36:11.900Z
   Status:
                           ProposalReady
                           State
  Observed Generation:
  Optimization Result:
   Data To Move MB: 0
   Excluded Brokers For Leadership:
    Excluded Brokers For Replica Move:
    Excluded Topics:
    Intra Broker Data To Move MB:
                                          100
   Monitored Partitions Percentage:
   Num Intra Broker Replica Movements:
   Num Leader Movements:
   Num Replica Movements:
                                         82.91290759174306
   On Demand Balancedness Score After:
   On Demand Balancedness Score Before:
                                         78.01176356230222
   Recent Windows:
  Session Id:
                                          a4f833bd-2055-4213-bfdd-ad21f95bf184
```





Easily Scale Up/Down

Manually scale up/down by adjusting # of brokers in Kafka node pools and applying the change:

```
kind: KafkaNodePool
spec:
  replicas:
```

> kubectl apply -f prod.yaml

Or use the kubectl scale command:

```
> kubectl scale \
    kafkanodepool prod-node-pool \
    --replicas=4
```

And let Cruise Control rebalance it:

```
kind: KafkaRebalance
spec:
 mode: add-brokers
 brokers: [3]
```

DEMOTIME



Connect

Thank you

