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clouders

WELCOME TO THE DATA AGE





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MODERN DATA WAREHOUSE FUNDAMENTALS

Part III: Healthy in Production: Optimizing, Managing, and Troubleshooting

December, 2018

SPEAKERS



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TYPICAL MODERN DATA WAREHOUSE FOOTPRINTS

LARGE BANK

GLOBAL PHARMA

MAJOR TELCO

FRAUD PREVENTION

NEW PRODUCT DEVELOPMENT

BUSINESS OPTIMIZATION

247

2M

87/00

8 PB

2M

Users

Queries / Month

Users

Diverse Data

New Sources Users

500

Terabytes

10/

Databases

Use Cases

200x

Fewer Silos

Query Responses >100 M

Min. Data Sets

Managing all this requires comprehensive Workload Management

Workload Management is about proactively assisting and de-risking every phase of the big data application lifecycle, supporting all stakeholders involved

Cloudera aims to empower our customers through a self-service intelligent workload-centric software to deliver

Workload XM

PERSONAS: WHO USES THE MODERN DATA WAREHOUSE?













KEEPING YOUR DATA WAREHOUSE HEALTHY









Assist workload migration



Identify rogue applications



Fix data health issues like small files

Better metadata handoff between ETL & BI

Enhanced visibility within and across clusters

How do I share petabytes of verified data across thousands of users with varied skill-sets while maintaining SLAs and cost?

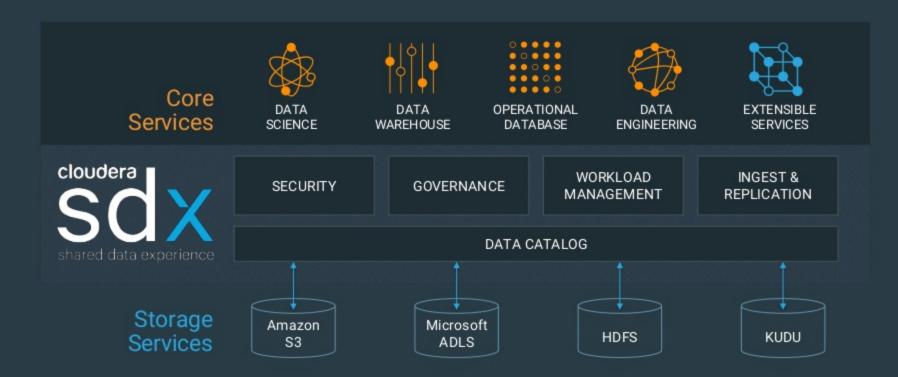
Self-service analytics through prescriptive recommendations

Proactive De-risking through early detection & elimination of bottlenecks

Reduced time-to-production through quick troubleshooting & tuning

CLOUDERA ENTERPRISE

The modern platform for machine learning and analytics optimized for the cloud



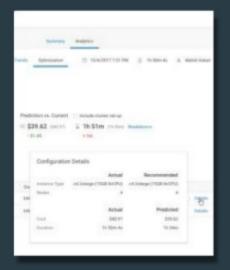
DEMO Video

CLOUDERA WORKLOAD XM

Proactively optimize Workloads, Application Performance, and Infrastructure Capacity for Data Warehousing, Data Engineering, and Machine Learning Environments









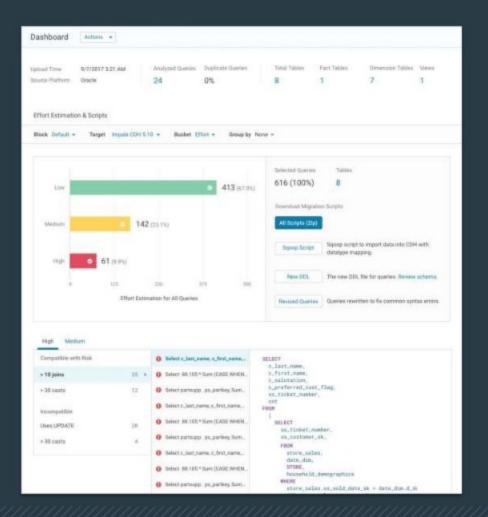
Migrate

Analyze

Optimize

Manage

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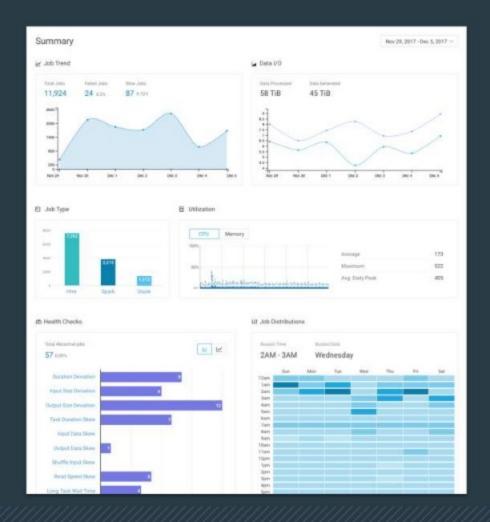


MIGRATE

Comprehensive Risk Assessment

Easy Onboarding of New Applications

Reduced Time to Production

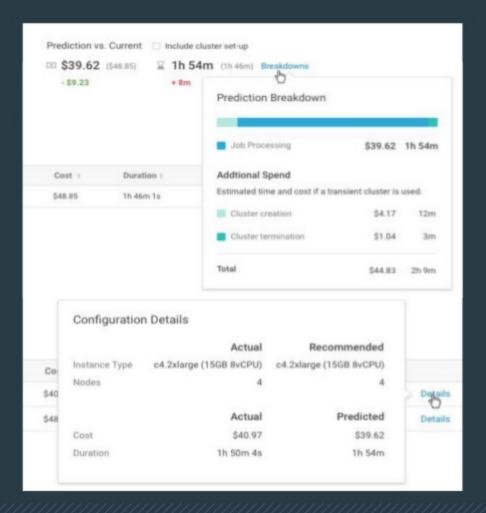


ANALYZE

Monitor Application Health

Self-service Analytics

Identify Anti-patterns & Bad Hardware

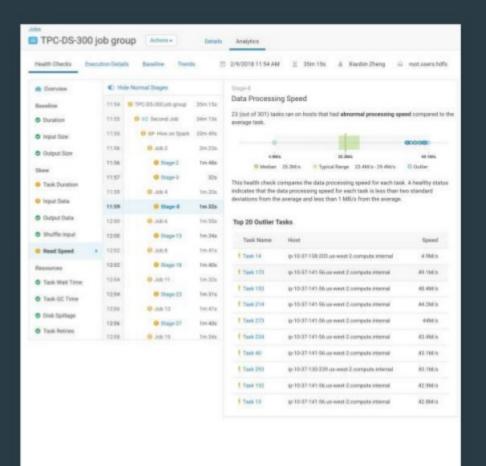


OPTIMIZE

Achieve Performance Predictability

Prescriptive Tuning & Workload Balancing

Resource-to-Cost Optimizer



MANAGE

Define, Monitor & Manage SLAs

Proactively Help Eliminate Bottlenecks

Assist in Capacity Planning

WHY WORKLOAD XM?

- No Installation, Restarts, Downtimes
- No Agents or Sensors deployed on cluster
- Instant availability of new features and enhancements
- Extensive Knowledge base on platform usage from customers across the globe
- A non-intrusive, secure and stateless metrics collection
- SDX Advantage, tighter integration into the Cloudera ecosystem & enhanced UX
- No one understands our platform better!

WORKLOAD MANAGEMENT - WHAT'S COMING?



Intelligent Workloads



Prescriptive Recommendations



Actionable Capabilities

THE WORKLOAD XM ADVANTAGE



Time to Detect Issues & Bottlenecks - Saving Time & Costs

30%+1

Cluster Utilization -Increased ROI on infrastructure 50x

Faster RCA & Troubleshooting -Reducing expensive Overheads & Costs

2x1

Intrinsic Value of Node

43%

Improved SLA
Adherence - Equates to
XXX Revenue

 $\leqslant 0.2\%$

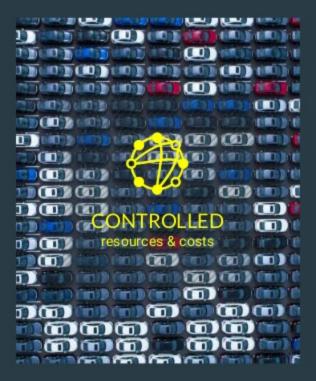
Minimal Additional Resource Consumption

THE MODERN DATA WAREHOUSE

Deeper Business Insights at Extreme Speed and Scale While Managing Cost





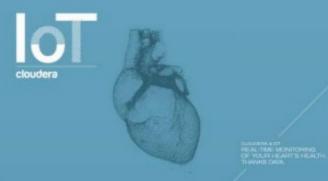


THANK YOU

https://www.cloudera.com/products/data-warehouse.html

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