

"Better to bet on cloud providers for infrastructure, Cloudera for data, analytics and security fabric, and leave the rest to the ecosystem"

The Ecosystem



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Where are you with your big data journey?

Value Identification

Exploring big data and working to identify a business case

Value Demonstration

Past the business case and need to demonstrate value for broader adoption Value Realization

Implemented early use cases with limited value and lacking traction

Big Data Journey

Big data has come long way and the enterprises are at different phase of their journey. However, broader adoption of the computation ecosystem is still in its early stages.



Value Identification

Exploring big data and working to identify a business case

We don't have big data

We already have a data warehouse

We don't have business case for it

All our data is structured data



Value Demonstration

Past the business case and need to demonstrate value for broader adoption

> I'm not sure how to start

Hadoop ecosystem is overwhelming

It is hard to find the required skillsets

It takes a long time



Implemented early use cases with limited value and lacking traction

Business users are not happy

We yet to realize the benefits it promises

No one using our Hadoop data

It is too expensive

Value Identification

Exploring big data and working to identify a business case

Value Identification

Value Demonstration

Value Realization

Value Identification: Traditional versus Modern Data Architecture

Traditional architectures use rigid data models, costly platforms, resource-intensive ETL and lack support for new use cases.

Traditional	Modern
Rigid Data Architecture	Flexible Architecture
Early binding to the pre-defined schema makes it inflexible and costly	Data is ingested and transformed without prior knowledge of target schema
Costly Infrastructure and Solution	Simplified Infrastructure and Solution
Data duplicated across costly platforms	Flexible on-premise and cloud infrastructure
50-70% spend on acquisition and integration	API-based pipelines automate data ingestion
Lacks Support for "New" Use Cases	Best Suited for "New" Use Cases
Data silo's impede real-time processing required to support modern use cases	Centralized hub for heterogeneous data and variety of tools enable real-time analytics
Declining Talent Pool	Growing Talent Pool
The new talent lacks excitement for the traditional technologies and tools	Elevated interest in data engineering and data science work

Value Identification: Traditional versus Modern Data Architecture

Requires army of costly professionals to support longer delivery cycles and brittle data processes.

Traditional Modern Slower Speed-to-Market Accelerated Speed-to-Market Longer delivery lifecycle involving too many project phases Separation of data management from discovery and analytics accelerates solution delivery Heavy Reliance on Costly IT Resources Enabled Business Self-Service Point-to-point ETL and early binding data model requires IT Centralized data enables "data wrangling" and analytics by resources for any data changes business users and data scientists Army of Data Professionals Streamlined Data Roles

Engineer

Value Demonstration

Past the business case and need to demonstrate value for broader adoption

Value Identification

Value Demonstration

Value Realization

Value Demonstration: Initial Use Cases as MVP

Select outcome-based high impact use case(s) and deliver minimal viable product (MVP) to demonstrate immediate success.



Offload Data Warehouse

Reduce cost and increase speedto-market by replacing costly platform and ETL processes with Hadoop and API-based integration architecture.



De-Silo Data Walls

Transition fragmented marts to
Enterprise Data Hub (EDH) to
enable cross functional and
enterprise wide descriptive,
predictive and real-time analytics.



Enable Discovery of New Use Cases

Ingest source data into the raw zone, apply basic transformations and make the data available for data analysts and data scientists to explore and model.

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INDUSTRY

Financial Services

BIG DATA SERVICES

Big Data Startup Planning

Big Data Governance

Big Data Implementation

Enablement and Adoption

Enterprise data hub provides foundation for data-driven culture

The client had a vision to drive improved customer experience and engagement through personalized marketing campaigns and needed an on-premise solution that enables the initial use cases and provides foundation for enterprise-wide analytics. Slalom architected a multi-zone data lake to harness and analyze internal and external customer and product data, enabling real-time analytics and a personalized customer experience.

CLIENT

A financial services company serving over 16 million customers nationwide. They pride themselves on being able to provide a personal touch for their customers, and the size of their customer base meant they needed a solution that would be able to integrate large amounts of traditionally siloed customer and product data.

SOLUTIONS

Data architecture and solution design

Data governance deployment

Multi-zone data lake design and buildout Ingestion and integration using metadata-based big data integration tool

Data discovery enabled and Tableau dashboard deployed

INDUSTRY

Financial Services

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Story contact:

Value Realization: Building Smart Data Lake

Implemented early use cases with limited value and lacking traction

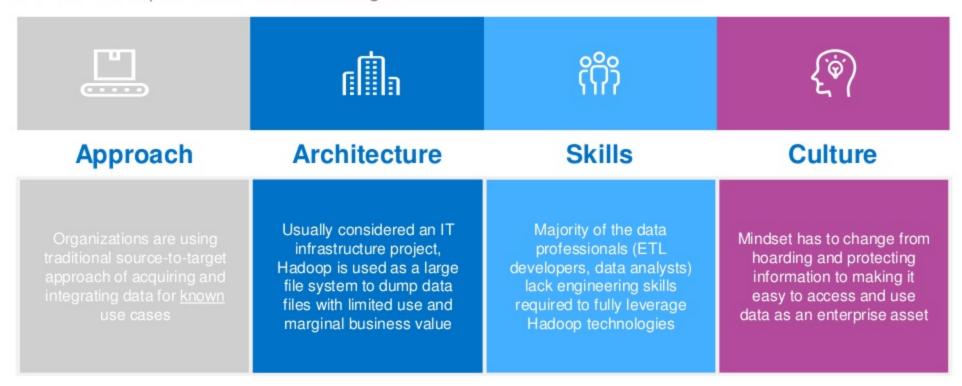
Value Identification

Value Demonstration

Value Realization

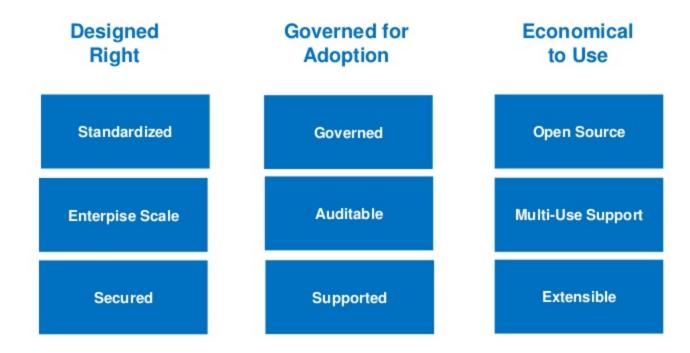
Value Realization: Common Challenges

We think, most of the organizations lack engineering skills required to fully leverage Hadoop ecosystem and realize the potential of new technologies.



Value Realization: Smart Data Lake

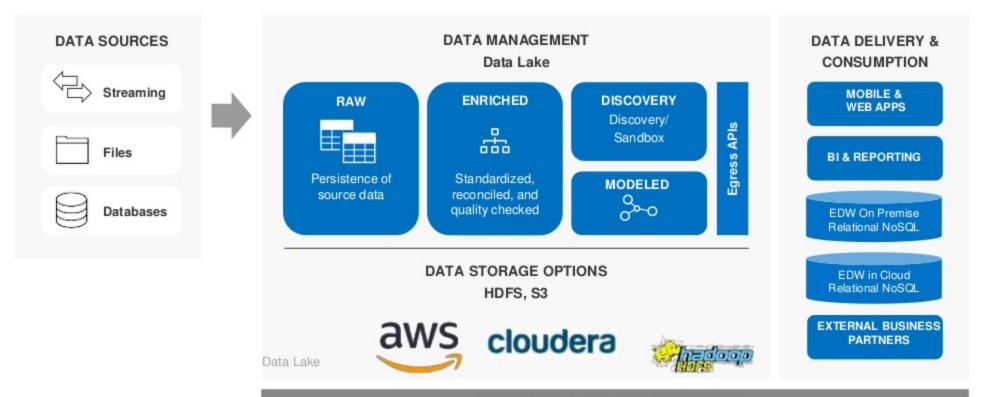
Smart data lake should be....



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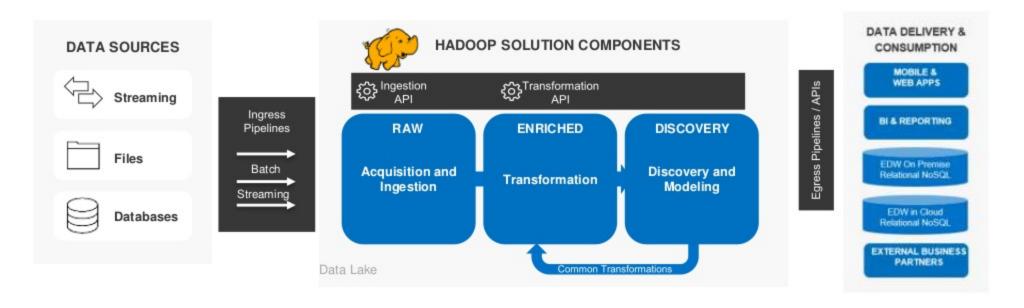
Value Realization: Designed Right

Multi-zone, self-governed data lake to provide secure and flexible data architecture to harness enterprise data for accelerated speed to insight.



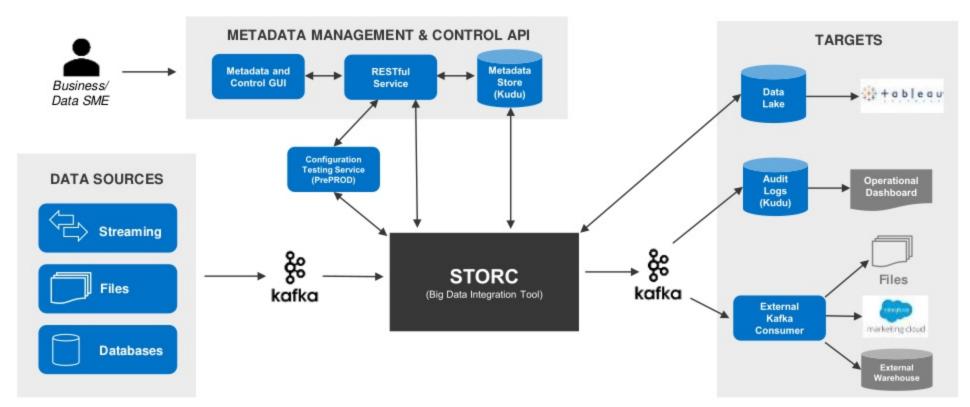
Value Realization: Accelerated Implementation

The architecture implements data pipelines using our purpose-built open source integration APIs accelerating implementation by 9-12 weeks.



Value Realization: Accelerator Architecture

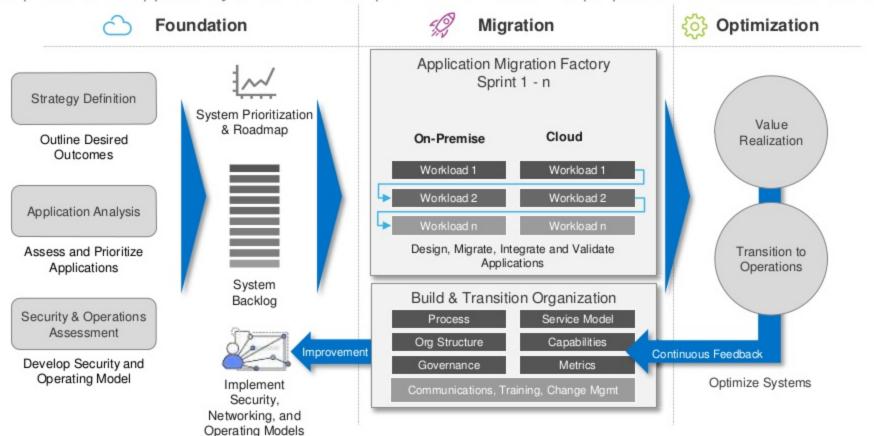
The accelerator enables self-service by allowing data analysts and data SMEs to ingest new data sources and promote data through the lake with limited to no IT dependencies.



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Value Realization: On-Premise to Cloud

Cloud presents an opportunity to transform on premise workloads into purpose driven scalable solutions



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Next Generation Data Platform for Healthcare Analytics

BACKGROUND

Slalom partnered with a Fortune 500 healthcare company to deliver a next generation data platform. The client's existing platform could not support increasing data volumes and a growing need for advanced analytics workloads. The new platform not only addressed these scalability concerns but also allowed the client to host both structured and unstructured data in near-real time. Most importantly, this data platform opened doors for new monetization opportunities

PROJECT

Slalom built a next generation. Hadoop data platform to meet the client's needs. Leveraging the cloud enabled a quick turnaround time as well as security features ideal for storing PII and PHI data. Slalom team migrated and optimized existing data to leverage Hadoop high-performance features. Slalom also built a near-real time platform that can ingest HL7 messages from several hospitals and provide event-driven alerting.

RESULTS

PEM delivery methodology was used to deliver a cost effective and scalable solution

Client is exploring opportunities to monetize the solution as an analytics workbench The data science team can leverage both SAS and R integration with the platform for advanced analytics

Sunset existing platforms, reducing licensing and support maintenance costs

TECHNOLOGY



sas

INDUSTRY

Healthcare

BIG DATA SERVICES

Agile Delivery Approach

Big Data Implementation

Maz Chaudh



BACKGROUND

Our client in the fast-casual food industry was having widespread challenges accurately capturing and measuring key business metrics. Due to inconsistent data integrity in the nightly batch process, executives and leaders were growing skeptical of the reliability of reporting and analytics built from the data. Leaders were clamoring for timely visibility to better, cleaner data.

PROJECT

The Slalom team served as Scrum Master, Product Owner and Analyst during the architecture and delivery of the AWS-based Cloudera platform. Using a Kafka-based publish-subscribe architecture, each restaurant location in addition to the online ordering platform was set up to stream data feeds to the unified Cloud platform.

RESULTS

Agile Delivery Methodology

Real-time data platform

Self-service enablement Up-to-the-minute view into the operations of over 6,000 restaurant locations nation-wide.

Ability to monitor KPIs and react with targeted efforts to boost sales exactly where it is needed

TECHNOLOGY





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INDUSTRY

Food Service

BIG DATA SERVICES

Agile Delivery Approach

Big Data Startup Planning

Platform Evaluation & Selection

Big Data Implementation

Story contact: Maz Chaudhri

INDUSTRY

Pharmaceuticals

BIG DATA SERVICES

Agile Delivery Approach

Big Data Implementation

Next Generation Data Platform & Supply Chain visibility

BACKGROUND

A top 10 Pharmaceutical company, and top 150 Fortune 500, sought to implement a next generation modern data platform. The platform needed to not only provide end to end supply chain visibility, but also be flexible and scalable to handle a heavy volume of serialized data. The client also wanted to establish a data lake so as to be able to predict and prescribe their inventory and shipments to better serve their customers.

PROJECT

Slalom utilized AWS and Cloudera Hadoop to build this next generation data platform. The data platform gave visibility to inventory levels to help drive the development of inventory optimization strategies and integrated multiple disparate sources to give end to end shipment visibility of the client's supply chain.

RESULTS

A scalable and flexible Big Data Platform

A universal XML ingestion framework

HDFS Data lake that ingests and persists all data from source system Allowed the client to sunset a reporting product that saved over \$1MM annually in support maintenance cost

Qlik BI & Operational reports utilizing Hadoop as the backend

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Why Slalom?





Pre-Built Accelerators



Proven Approach and Experience



AGILE ENGINEERING APPROACH

Start small, deliver value and evolve your Big Data program



BIG DATA INTEGRATION TOOL

Open-source meta-data driven integration API



DATA GOVERNANCE in a BOX

Multi-faceted data governance deployment and tools



BIG DATA STARTUP PLANNING

Pre-defined epics and stories for big data startup



PLATFORM SELECTION

Best practices-based evaluation toolset



READINESS AND ADOPTION

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Org readiness and change strategy and enablement

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