HADOOP MIGRATIONS

Migrate data from a legacy platform to Hadoop

ESSENTIALS

- Support increased data analytics requirements by migrating to Hadoop
- Execute a tailored approach based on your business needs with data, hybrid or platform migration options
- Accelerate the time to value of your migration initiative with strategic guidance and expert execution from Dell Technologies Consulting

Business Challenge

Big data and analytics are at the heart of digital transformation and enable organizations to gain valuable new insights about their customers, products, and operations. However, many organizations are struggling to manage the opportunities and challenges created by big data and the heavy workloads associated with advanced analytics.

With data storage requirements growing exponentially faster than IT budgets, common challenges include effectively managing the necessary storage and, consequently, the analytics requirements from the business. Organizations are looking for solutions to offload some of the storage and processing to a more efficient platform that better serves the needs of modern analytics, unstructured data and semi-structured data.

Service Description

The Dell Technologies Consulting Hadoop Migration service helps your business solve issues created by a massive increase in data growth while keeping costs under control.

A Hadoop data lake using an enterprise-grade storage appliance as its foundation can address a significant number of data management requirements. This solution addresses several issues with the overload of Enterprise Data Warehouses (EDWs) and delivers enterprise-grade data management capabilities at the economics of Hadoop.

A common problem with EDW is the handling of tedious data wrangling and cleansing jobs rather than expanding the scale of the analytics and business intelligence workload. EDW are also unable to efficiently leverage insights from new data sources (e.g., unstructured data) that may not fit in the existing data models supported. Dell Technologies Consulting solves that problem by enabling your organization to migrate its data to the more efficient Hadoop platform.

We tailor the Hadoop migration process to meet your business needs, offering three distinct options:

- **Data Only Migration**: Focuses only on data migration while keeping existing processes and environment as is.
- **Hybrid Migration**: Focuses on migrating ETL/ELT capabilities to a new environment. May also include migrating time-consuming ELT and related data. Results in two functioning environments: legacy and new.
- **Platform Migration**: Focuses on migrating a legacy platform to a new platform (e.g., EDW to Hadoop; MapReduce to Spark). All ingestion and consuming processes are pointed to the new platform.

Current State Assessment

At the beginning of the engagement, our consultants will capture requirements from your technology stakeholders and ensure that expectations are aligned from an architecture perspective. We will then assess and document the technical architecture of the entire system, including the infrastructure, data integration, reporting and end-to-end validation tests.

Future State Solution Design

Next, we will document the infrastructure components that are in-scope and the expected outcomes, using the information gathered on current technical capabilities and desired capabilities. We will define the future-state architecture and capabilities including infrastructure, storage and data.

Our consultants will then design a migration pilot to test and validate a small sample environment. After validation, we will design a detailed migration plan to ensure configuration of your company's data with Hadoop will not impact your day-to-day business processes.

Solution Implementation & Validation

Once the pilot results are validated and appropriate changes are made to the detailed plan, we will execute the migration and validate it by testing all of the system components in a production environment to ensure the results meet your expectations.

Getting Started

The Hadoop Migration service helps your organization handle increased data analytics needs by leveraging Hadoop. Using a tailored approach, our consultants will work with you to migrate your data to a Hadoop platform in the way that is best for your business and accelerate the time to value.

Are you ready to harness the power of analytics to transform your organization? Dell Technologies offers a comprehensive portfolio of Data Analytics Consulting Services from strategy through to implementation and ongoing optimization. Contact us to learn more.

Learn more about Dell Technologies Consulting Services

Contact a Dell Technologies Services Expert

D∕∕LL Technologies