DELL Technologies

Service Overview

DATA ANALYTICS TECHNOLOGY ADVISORY

Develop an architecture and plan for implementing new analytics capabilities into your environment

ESSENTIALS

- Determine capabilities needed to achieve goals for analytics scalability and performance
- Review existing architecture and assess technology gaps
- Develop a technology roadmap and implementation plan

Business Challenges

In today's digital age, the Big Data and analytics landscape is rapidly evolving with a steady stream of new products, techniques and frameworks. Data scientists and developers want flexibility and choice of tools and libraries, with on-demand access to the latest technologies, such as machine learning and artificial intelligence. IT managers are under pressure to support these new innovations and the ever-changing menagerie of tools, while also providing enterprise-grade IT security and control and keeping infrastructure costs manageable.

Many IT departments have bare metal servers in place for Big Data. That works to a point, however, servers with direct-attached storage and the data lake can quickly become disk/storage-constrained as an organization's use of the data expands. As nodes/servers are added, the management overhead becomes costly and inefficient, not to mention the costs of the servers themselves.

To support the business, IT organizations need to be able to effectively store, manage, and provision data from an increasing number of internal and external sources. And, they need to do it efficiently because within these data sources are valuable new insights about customers, products, and operations that can drive revenue, growth, innovation, and productivity. These insights require new capabilities to ingest real-time or social data, ETL offload, data discovery and profiling, rapid environment provisioning, and providing Big Data-as-a-Service to data scientists and business users.

IT departments across industries and geographies are experiencing these challenges in some form or another and understand additional capabilities and optimization are needed to support the business. Yet, architecting and implementing a robust, optimized Big Data infrastructure to support today's requirements and navigating the complex and evolving ecosystem of technologies and solutions can be challenging. Organizations struggle with how best to optimize the infrastructure, what additional capabilities are needed to support new business requirements, and how to achieve the desired future state.

Service Description

Dell Technologies Consulting offers a Data Analytics Technology Advisory service tailored to meet your specific business requirements and priorities, including supporting advanced techniques such as artificial intelligence and machine learning. We follow a proven process to assess the current state, define the future state, perform a gap assessment and develop a comprehensive roadmap to achieve the desired future state.

Kickoff and Interviews

Dell Technologies consultants will conduct interviews with your IT and analytics teams (e.g., architects, data engineers, data governance personnel, and analytical users) to review goals and existing technology, including the infrastructure and data environments that will support your analytics initiatives, operating model and challenges that currently impede your progress.

Current state Assessment

Our consultants will then assess and document your current state environment. This includes reviewing unique data sources, clusters, tools, and applications, business and technical objectives, and operating model.

Future-state Architecture and Gap Analysis

Through the evaluation of your current environment and technical capability needs, our consultants will develop a target future state architecture and conduct a gap analysis to identify and prioritize the gaps in terms of criticality, value and feasibility.

Technology Recommendations and Implementation Plan

As the final step in the process, our consultants will deliver tailored technology recommendations for implementing the desired analytics capabilities into your IT environment and maximizing your Big Data investments. The recommendations will also include a roadmap to achieve the desired future state and a proposed implementation plan.

Summary of Benefits

The Data Analytics Technology Advisory provides IT leaders with a strategy, architecture roadmap, and plan to integrate new or enhanced Big Data and analytics technology capabilities into their production IT environment.

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.