BIG DATA TECHNICAL IMPLEMENTATION

Build and deploy a comprehensive big data analytics environment

ESSENTIALS

- "Right-tool-for-the-job" approach uses open-source or proprietary tools to address economic or functional business objectives
- Applied data science quickly moves customer analytics use case into production
- Comprehensive and balanced options for analytics capabilities and supporting tools/infrastructure
- Optimized security, software, hardware, and process

Business Challenge

Some data analytics initiatives are independent projects, while other organizations want to build out analytics platform to serve current and future use cases. Yet with so many technology approaches and implications to process, governance, ROI, time-to-market, features, and required skill sets, many organizations struggle to implement meaningful use cases for data and analytics. With recent breakthroughs in technology, process, and skillsets, you can now leverage structured and unstructured data for initiatives such as improving customer experiences, reaching new markets, streamlining operations, enhancing security, and developing new products and services.

The Big Data Technical Implementation service will enable you to take your preliminary system and fill its capabilities out to make it more complete, addressing all areas that are needed to make a fully functioning environment. Dell EMC Services recognizes different enterprises have different objectives, and is ready to supplement your current environment with the tools and processes necessary to get you to a higher level of capability towards a data-driven business no matter what your business objective is, be in minimizing cost or gaining comprehensive capabilities.

Service Description

When a customer has determined their future state architecture for big data, or has determined an analytics use case, data sources, and analytics requirements (such as the outputs of Dell EMC's Big Data Proof of Value or Proof of Technology Services), they are ready for an implementation. This service augments a customer's IT architecture to establish a comprehensive data lake and analytics environment, and/or it implements a known analytics use case into production within the customer environment.

Solution Architecture
Dell EMC Services begins by designing an overall "fit-for-purpose" solution and integrates standard and customer specific elements of the use case (if applicable). Security, governance, and customer processes and skill sets are included in the design for each customer.

System Setup & Administration

Dell EMC will then deliver, install, and configure the infrastructure, giving the customer up to three choices for configuration: converged infrastructure, non-converged infrastructure, or existing customer infrastructure.

Solution Deployment

In the solution deployment phase, for customers who are utilizing this service to implement an analytics use case into production, Dell EMC data scientists analyze the applicable customer data sets, refine the algorithms, and optimize the analytic lift to maximize the potential value of the end-user solution. We then integrate those data insights with a production app or process (if an entirely new application is required that will be delivered as a separate engagement). Use case enablement is the primary focus of Dell EMC's data scientists.
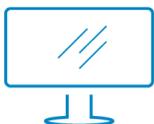
Solution Validation

The final component of the engagement validates the performance of all aspects of the analytics use case in production, as well as the platform performance and capabilities. Dell EMC experts provide tuning where necessary. We document validation results, and engage in any issue resolution.

Summary of Benefits

The scope for this engagement can include the activities to develop and deploy use cases for analytics, as well as technical capabilities (hardware, software, integration) required for data analytics.

- Quickly solve a business problem fast with data and analytics

- Choose from pre-engineered, best-in-class, third-party, or open source components as needed

- Data science experts and infrastructure experts work as a unified team as part of Dell EMC Services

- Flexible scope service implements analytics use cases and/or analytics platforms within a single services engagement

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