Your first step towards building a future ready enterprise

Proof of Concept for Big Data and Analytics

The biggest challenge organizations today are facing is how to translate the enormous amount of data captured from multiple sources into actionable insights. While Big Data platforms like Hadoop allow enterprises to capture and analyze Big Data in unparalleled ways, organizations are also struggling with deployment and ongoing management of Big Data solutions due to complexity of integration within the ecosystem, lack of skilled resources and technical know-how. NEC offers a proven Big Data analytics Proof of Concept (PoC) strategy that can help organizations determine the real value associated with Big Data solution and save them immeasurable time and money.

Overview

NEC’s Big Data Analytics POC helps organizations experience Big Data usage and its benefit with a proven POC tailored to suit the specific needs of a client’s vision of their Big Data journey. The POC accommodates a highly scalable Hadoop deployment and requires minimal investment on Big Data hardware, software or skills in IT or business units.

Data Sources

- Traditional Sources
  - RDBMS
  - Mainframe
- Non-Traditional Sources
  - Log
    - System Log
    - Geospatial data
  - SNS
- Other Connectors

Data System

- RDBMS
- EDW
- MPP

Application

- Tableau
- SAS

Figure 1 - Modern Architecture for Data Management

Approach

Phase 1 – Initialization
Define project plan and structure, goals to achieve, and define roles and responsibilities within the scope of a workshop

Phase 2 – Use Case Selection
Consult with line of business and IT to identify the use case and define data models

Phase 3 – PoC Design, Test & Validation
Provision data, allow access to test scenarios, evaluation, benchmarking, performance optimization to validate use case

Phase 4 – Finalization
Present test results, documentation, presentation and recommendations for next step
Proof of Concept for Big Data and Analytics

PoC Menu with Effort Estimation

<table>
<thead>
<tr>
<th>Big Data Hadoop Platform POC – First hand experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hands on experience of Hadoop Platform implementation</td>
</tr>
<tr>
<td>Extract and Transform the structured data to make it analytics ready in Hadoop</td>
</tr>
<tr>
<td><strong>ETL Offload &amp; Data archive – from ERP/CRM</strong></td>
</tr>
<tr>
<td>Extract structured, semi-structured data transform it in Hadoop and show the sample result/dashboard in BI tool</td>
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<td><strong>ETL Offload &amp; Data archive – from EDW</strong></td>
</tr>
<tr>
<td>Offload ETL process from EDW</td>
</tr>
<tr>
<td>Combine structured data and unstructured data and show Sample result/dashboard in BI tool</td>
</tr>
</tbody>
</table>

### Analytics
- **Scope:** Representative short-term analytics use cases for customers business problem 
- **Output:** data preparation, analytics and provide insights/recommendation

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Scope & Output of PoC

- **Hadoop Experience**
  - **Scope:** Provisioning cluster, Data collection and standardization 
  - **Output:** HA enabled Hadoop cluster experience, Ingestion and transformation of data in Hadoop, Hands of evaluation of Hadoop to a complementary solution for existing operational application

- **ETL Offload & Data archive – from ERP/CRM & Mainframe**
  - **Scope:** Provisioning cluster, Data collection and standardization, Data modeling definition, Visualization 
  - **Output:** Analytic ready data and datasets, Visualize the identified KPI’s in Dashboard, Data offload project execution and completion report

- **ETL Offload & Data archive – From EDW**
  - **Scope:** ETL performance optimization, Definition of data modeling, 
  Provisioning cluster, Data collection and standardization, Visualization 
  - **Output:** Analytic ready data and datasets, Visualize the identified KPI’s in Dashboard, Data offload project execution and completion report, Performance report

- **Analytics**
  - **Scope:** Problem Definition, Data collection and standardization, Hypothesis testing, Analytics modeling and testing, Visualization 
  - **Output:** Analytic ready data and datasets, Visualize the Analytics result and recommendation, Analytics project execution and completion report, Final insights and recommendation

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Other Details

- **Engagement Cost:** Fixed Cost based on the use case selection
- **Location:** Remote/ Onsite

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For further information please contact your local NEC representative or

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