

# Implementing an Azure Databricks Environment in Microsoft Azure

SNP Technologies and Microsoft bring the power and ease of using Azure DataBricks Platform-as-a-Service (PaaS) to modernize your data warehouse with a robust Apache Spark™ analytics platform in the cloud for high performance and global scalability.

Our solution offerings are diverse and cater to various industry verticals such as financial services, healthcare, retail, media & entertainment, and utilities.

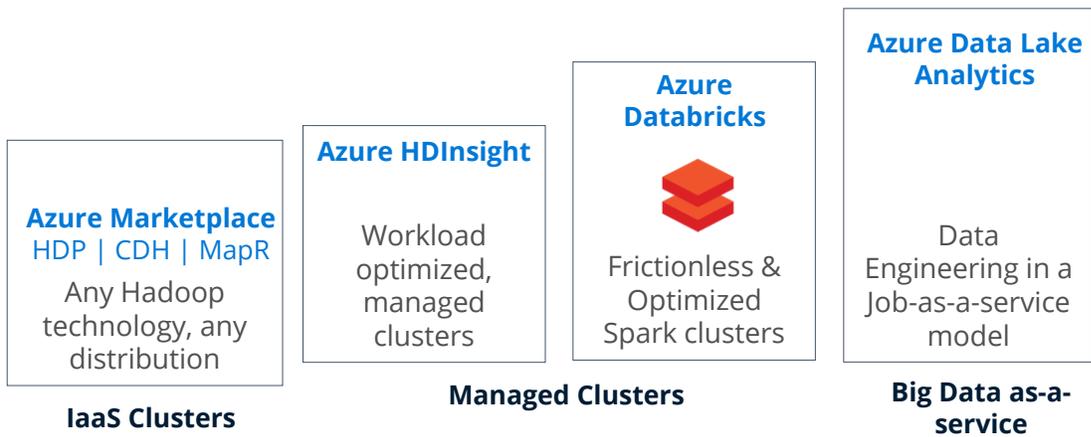


## SNP Offers: Features:

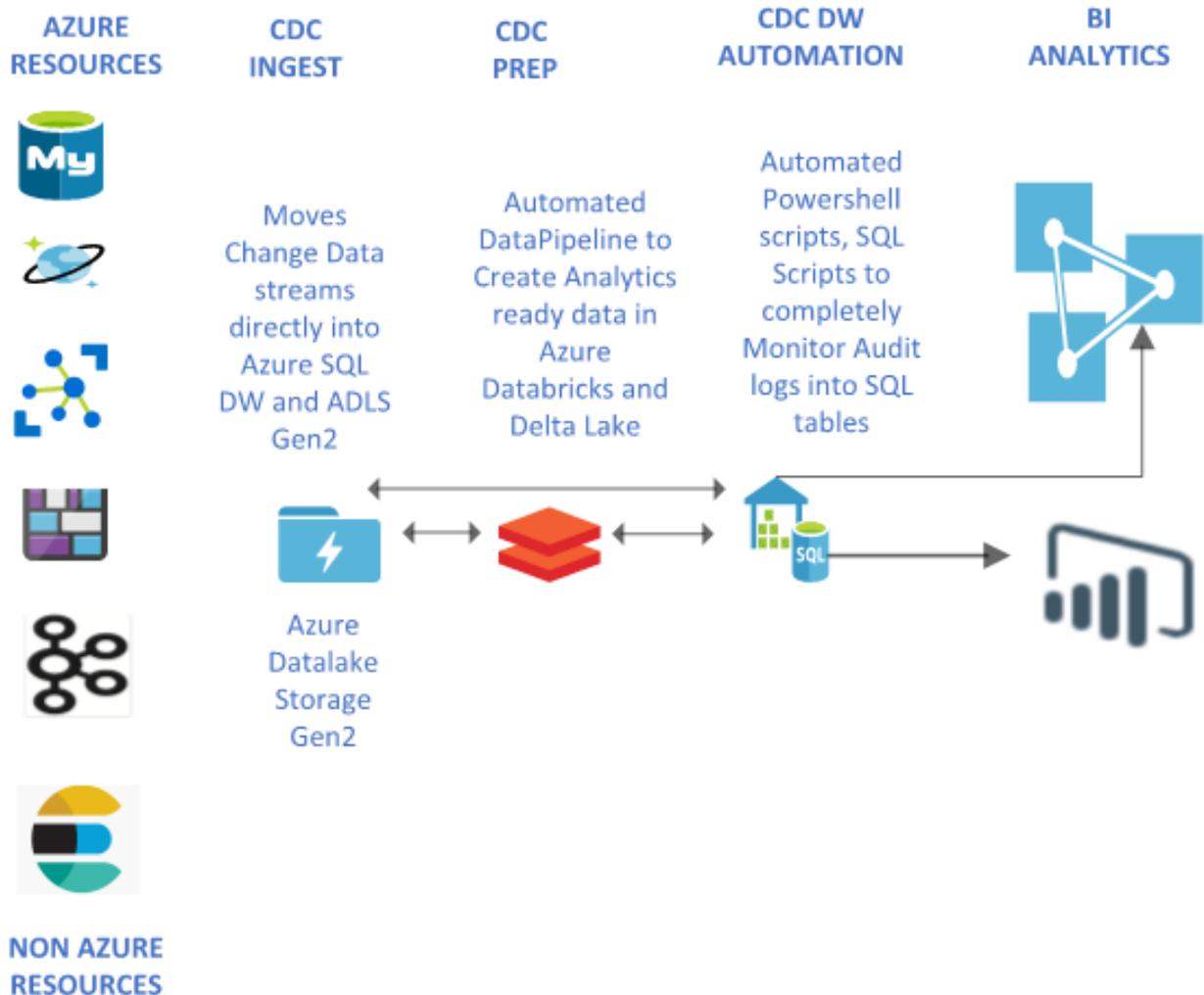
- ❖ An Azure Databricks platform for a broad spectrum of use cases including core ETL, data discovery and exploration, data warehousing, data product deployment, and insight publishing using dashboards for internal and external audiences.
- ❖ Easily integrate and process large volumes of data (structured, unstructured, semi structured) for Data Preparation, Data Integration, as well as for Analytics including ML Models execution and integration/embedding with applications.
- ❖ Leveraging Azure Databricks, we help customers integrate data from different sources (On Premise, Cloud, Data warehouses, Data marts, Operations data stores, Data Lake).
- ❖ Explore large data sets in real-time.
- ❖ Find hidden data patterns with advanced analytics algorithms.
- ❖ Publish customized dashboards.

- ❖ **Spark SQL & DataFrames:**
  - Leverage Spark SQL while working on structured data.
  - A data frame is used to distribute a collection of data organized into named columns. It is conceptually equivalent to a table in a relational database or a data frame in R/Python.
- ❖ **Streaming:**
  - Real-time data processing, analytics and interactive applications.
  - Integration with HDFS, Flume, and Kafka.
- ❖ **MLib:**
  - Leverage common learning algorithms and utilities, including classification, regression, clustering, collaborative filtering, dimensionality reduction and underlying optimization primitives.
- ❖ **GraphX:**
  - Graphs and graph computation for a broad scope of use cases from cognitive analytics to data exploration.
- ❖ **Spark Core API:**
  - ❖ Support for R, SQL, Python, Scala, and Java.

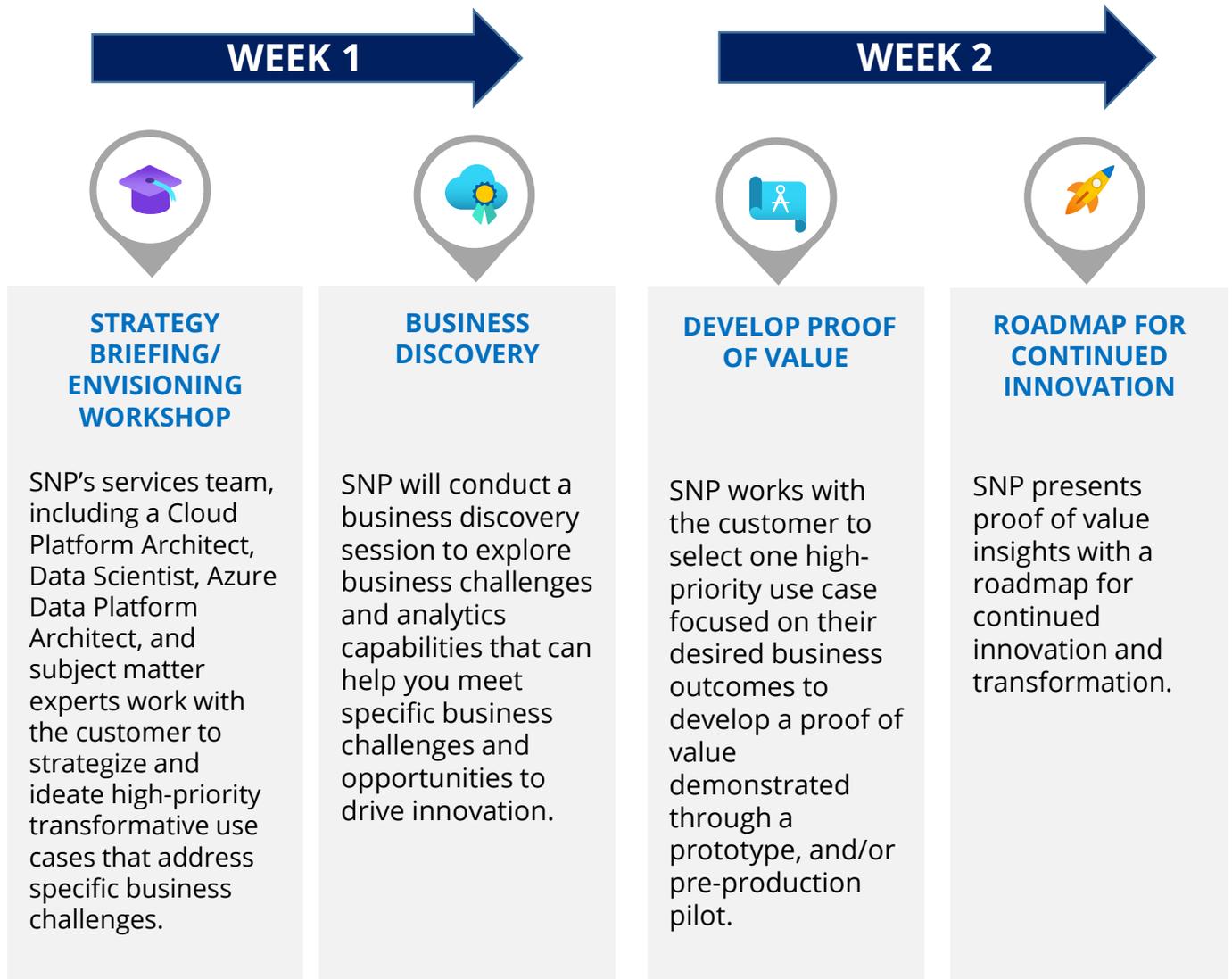
Potential Reference Diagrams:



A Z U R E D A T A B R I C K S



# SNP's 2 Week Engagement Process



## Deliverables

Assessment and architecture proposal with an optimized cloud strategy to build an analytics driven data platform using Azure Data Bricks.

<p><b>Winner</b> Microsoft Partner 2019 US Partner Award</p> <p>Intelligent Cloud- OSS on Microsoft Azure Award</p>	<p><b>Finalist</b> Microsoft Partner 2019 Partner of the Year</p> <p>Open Source Applications &amp; Infrastructure on Azure Award</p>	<p><b>Winner</b> Microsoft Partner 2018 US SI Partner of the Year</p> <p>Solution Innovation on Microsoft Azure Award</p>	<p><b>Finalist</b> Microsoft Partner 2018 Partner of the Year</p> <p>Open Source Applications &amp; Infrastructure on Azure Award</p>
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