![QUADRANT]

Quadrant Resource is a leading technology partner that specializes in providing Azure services, including setting up Azure Synapse Analytics proof of concept environments. They offer data engineering and analytics expertise to ensure a high-quality data analytics experience, combined with other Microsoft Cloud capabilities.

During the proof of concept (POC), Quadrant will collaborate with your IT and business users to define the project's schedule, desired experience, test cases, and success criteria. This collaboration ensures that the POC aligns with your specific needs and goals.

By working closely with Quadrant, you can expect a tailored Azure Synapse Analytics environment that demonstrates the capabilities and benefits of the platform. Their expertise in data engineering and analytics will help optimize the POC and ensure a best-in-class data analytics experience.

It's important to engage in detailed discussions with Quadrant to fully understand the scope, deliverables, and any associated costs of their services for the Azure Synapse Analytics proof of concept.

1. Data Warehouse: Azure Synapse provides a fully managed and scalable data warehousing solution. It allows you to store, manage, and query structured and semi-structured data using familiar SQL-based queries.

2. Big Data Integration: Synapse integrates with various big data technologies such as Apache Spark, Azure Data Lake Storage, and Azure HDInsight. This enables you to ingest, process, and analyze large volumes of data from diverse sources.

3. Data Integration: With Azure Synapse, you can integrate data from different sources and formats, transforming and preparing it for analysis. It supports data ingestion, data wrangling, and data movement across on-premises and cloud-based systems.

4. Real-time Analytics: Azure Synapse Analytics supports real-time analytics through its integration with Azure Stream Analytics and Apache Kafka. You can process streaming data and gain immediate insights for real-time decision-making.

5. Advanced Analytics: Synapse integrates with Azure Machine Learning, enabling you to build, train, and deploy machine learning models for advanced analytics tasks. This allows you to extract valuable insights, perform predictive analysis, and make data-driven predictions.

6. Power BI Integration: Azure Synapse seamlessly integrates with Microsoft Power BI, a leading business intelligence and data visualization tool. You can create interactive dashboards, reports, and visualizations to gain insights from your data.

7. Security and Governance: Azure Synapse offers robust security features to protect your data. It supports Azure Active Directory for authentication and access control, and data encryption at rest and in transit. Additionally, it provides auditing and monitoring capabilities to ensure compliance with data governance policies.

8. Serverless SQL Pools: Azure Synapse now includes serverless SQL pools, which allow you to query data stored in Azure Data Lake Storage without needing to provision or manage dedicated resources. This provides a cost-effective way to analyze data on-demand

Azure Synapse Analytics

On-premises data
Cloud data
SaaS data
Streaming data

Studio

| Data Integration | Management | Monitoring | Security |

Analytics runtimes

SQL | Apache Spark | Data Explorer

Azure Data Lake Storage Gen2

Azure Purview
Azure Machine Learning
Power BI