

# PROPOSED CLOUD ARCHITECTURE PROJECT

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- **BUSINESS OVERVIEW**

Paper Root Studios is a leading manufacturer of high quality paper products, catering to diverse industries and consumer segments. With a commitment to sustainability and innovation, Paper Root Studios performs eco friendly practices to produce an extensive range of paper based solutions.

- **BUSINESS OBJECTIVES**

Migrate sales data to cloud (Azure) to make it,

Scalable

Cost-Efficient

Enable real time insights and decision- making

Seamless online transactions

Unified storage system

Secure

- **PROBLEM STATEMENT**

Disaster Vulnerability: On premises data carries the risk of no accessibility during service outages.

Limited Data Visibility: Managing on-premises data presents challenges in control, potentially resulting in security risks and compliance issues.

Current storage is not cost effective.

No scalability

- **VISION**

The vision for the proposed cloud architecture includes the integration of various data sources such as geo-location, e-commerce, inventory, AI, and website tracking into the Azure cloud environment, specifically using Azure services and components.

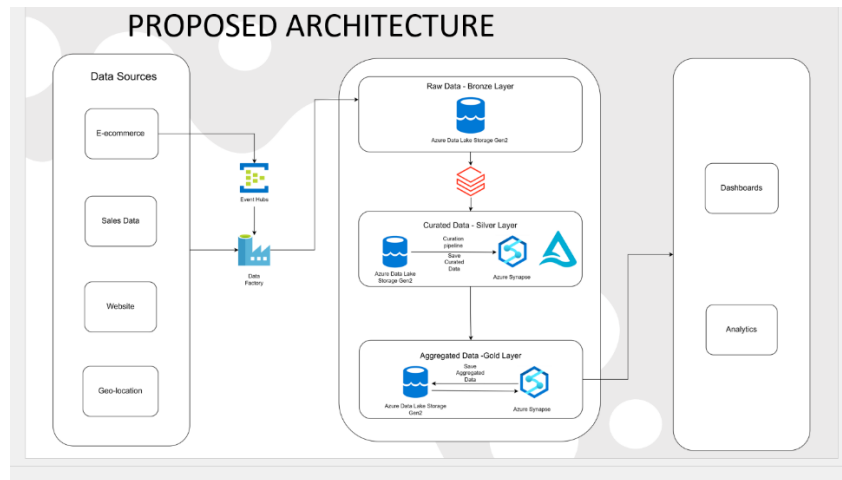


- **ARCHITECTURAL DESIGN**

The proposed architecture involves leveraging Azure services and components to create a robust and scalable cloud environment for Paper Root Studios. The architecture will include:

**Azure Services:** Utilizing Azure services such as Azure Data Lake Storage, Azure SQL Database, Azure Synapse Analytics, and Azure Data Factory.

**Ingestion, Curation, and Gold Pipeline:** These components will run as a complete unit, pulling data from various sources, cleaning and merging it in Delta Lake tables, and summarizing data for end users.



- CONCLUSION**

Paper Root Studios stands as a beacon of innovation, sustainability, and excellence in the paper manufacturing industry. With a clear vision to redefine the way paper is produced and utilized, the company has set itself apart through its unwavering commitment to quality, environmental stewardship, and customer satisfaction.