Case Study

Hexaware accelerates data warehouse migration from Oracle Exadata to Azure SQL Data Warehouse for a leading vehicle manufacturer

About the Client

Our client is one of the leading manufacturers of trucks, buses, and industrial engines. Headquartered in Japan, they have a global presence in over **100 markets** around the world with an employee strength of over **10,000**. They offer products ranging from light-duty trucks to the heavy-duty carriers.

Business Challenge

The current on-premises Oracle Exadata Data Warehouse (DW) was maxing out its capacity. It was incapable to handle the large enterprise data volumes generated from millions of IoT devices installed in their assembly lines and churn insights quickly. Moreover, it was becoming very expensive to maintain and manage this legacy DW appliance. Their Total Cost of Ownership (TCO) was very high.

- Selecting the right cloud stack that could bring agility and cost effectiveness post migration
- Minimizing the operational overheads
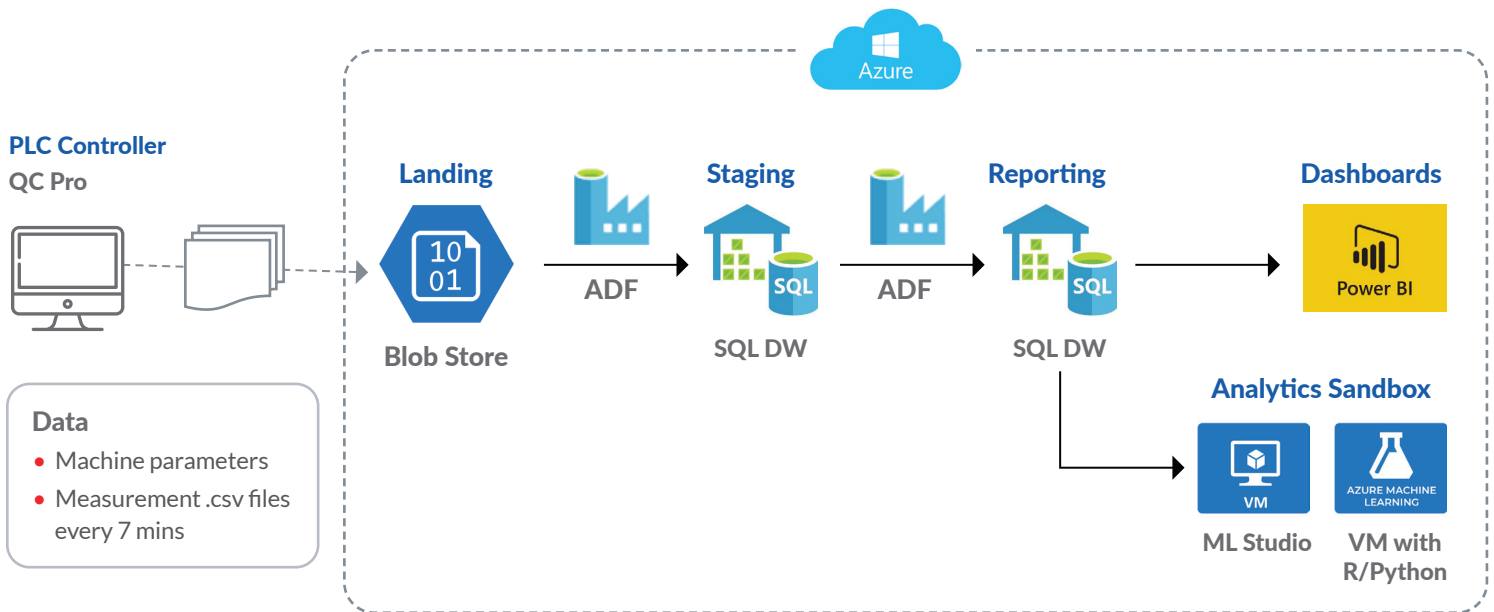- Minimizing downtime while migrating to cloud

The Solution

To overcome their challenges, Hexaware proposed Oracle Exadata migration to Azure cloud, which basically means migrating their existing Enterprise Data Warehouse (EDW) system to a more agile, scalable system using Microsoft Azure data service components to provide the most cost optimized solution.

The newly architected solution involved extracting data from various sources like millions of IoT sensors, PLC controller and csv files into an Azure Blob Storage landing zone. Azure SQL Data Warehouse was selected to replace Oracle Exadata as the new EDW where data will be used for Dashboards, ad hoc querying, canned reports and building Machine Learning models

DW & Analytics architecture on Oracle Exadata

To accelerate the Oracle Exadata migration, and implement the target state architecture, Hexaware leveraged their automated, smart and cost-effective platform, AMAZE™ for Data & AI. Through AMAZE™, we automated the current state assessment process for identifying all the complexities of migration. Post assessment, the cloud services selected on Azure were deployed in an automated manner.

Post deployment of resources in Azure, the entire migration of data pipelines and data store layers was accelerated by AMAZE™ that minimized downtime and saved time and efforts by over **60%.**

Business Benefits

The above transformation has enabled near real time monitoring of manufacturing data and ability to analyse huge data volumes coming from millions of IoT sensors to monitor more than **50** performance metrics

The Total Cost of Ownership of EDW landscape was reduced by **50%**

AMAZE™ for Data & AI automated and accelerated the entire migration process, which was massively beneficial to the customer. We were able to migrate the entire ecosystem to cloud within **9 months** helping them realize the benefits of cloud faster

About Hexaware

We are a global technology and business process services company empowering enterprises worldwide to realize digital transformation at scale and speed. Our platform-enabled strategy – featuring Amaze® for full cloud enablement, Mobiquity™ for digital product engineering, and Tensai® for extreme automation – drives human-machine collaboration to create immersive customer experiences and solve complex business problems. We believe technology is a magical thing, and our purpose is to create smiles through great people and technology.

With corporate headquarters in Mumbai and regional headquarters in New Jersey for North America, London for Europe, and Sydney for APAC, we service customers in over one hundred languages from every major time and regulatory zone. We serve customers in banking, financial services, capital markets, healthcare, insurance, manufacturing, retail, education, telecom, hi-tech & professional services, travel, transportation, and logistics. We deliver highly evolved services in rapid application prototyping, development, and deployment; build, migrate, and run cloud solutions; automation-based application support; enterprise solutions for digitizing the back-office; digital product engineering; business intelligence & analytics; digital assurance; infrastructure management services; and business process services.

Learn more about Hexaware at **https://www.hexaware.com**

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