matilda cloud

Cloud Transformation of a large Utilities Company
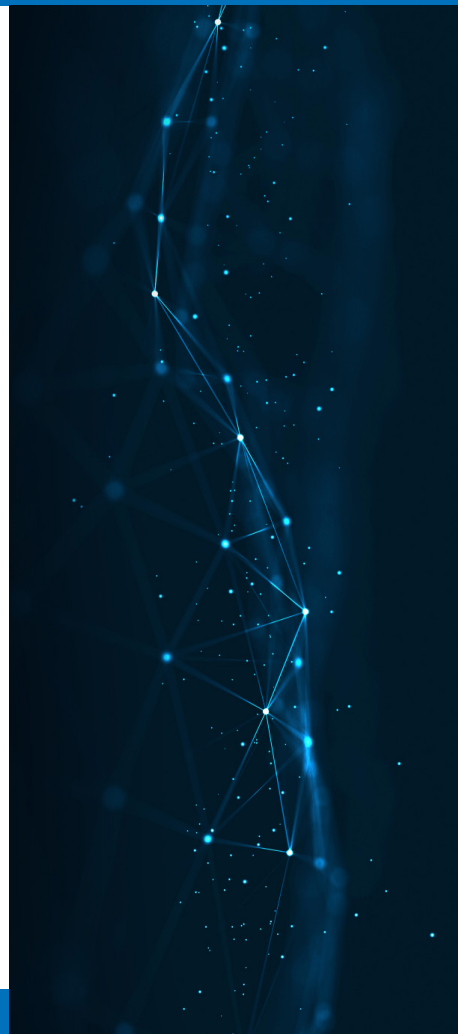
Client: A large US based publicly traded utility company
Location: United States and Canada

aws partner network

Challenges

The publicly traded utility company's deteriorating physical systems are involved with large volumes of data, and they have made significant investments in upgrading assets for providing efficient services to customers. As the existing infrastructure and its architecture did not support their current business imperatives, scaling up the hardware and servers was not an economically feasible option to overhaul their utility systems owing to the huge investments. In addition, software licenses required to operate their in-house model were very high and something had to be done. Therefore, they wanted to redesign and transform to a new infrastructure model. Some of the key challenges encountered were:

- Inherited outdated legacy systems and portion of the infrastructure with many unknowns.

- The server hardware that supported them required replacement.

- On-premises datacenter that hosted their infrastructure needed periodic shutdowns.

- The overall goal of moving the utility company's infrastructure to the AWS Cloud meant that they needed a proven strategy, target state design and optimized model.

- Tools/ technologies they had used earlier, could assess only a fraction of their application areas that were causing issues.

- Data inaccuracy and unknown dependencies led inaccurate and delayed decisions in critical time for Disaster Recovery, and Business Continuity business units of utility company, which increased in higher business risk.

How did Matilda help them?

Matilda recommended a holistic solution involving the migration of their application from the existing Datacenter to the AWS Cloud. The architecture and deployment set up advised by Matilda's experts for this Water Management Platform on the AWS included:

- Enablement of a complete 360-degree visualization of production ready application environment on the AWS cloud.

- Evaluation of the infrastructure; devised a plan to Discover, assess their current infrastructure and what makes up their portfolio, and recommended migration & EOSL strategies from their On-premises Datacenters to the AWS.

- Facilitated the utility company with richer insight of the unknown legacy systems and current architecture by deeper level of Discovery.

- Established Assessment and acceleration in gathering requirements with automated and effortless Discovery.

- Equipped proven Migration Strategies of the entire platform to the AWS to meet the SLAs with zero downtime, analyzed the current state of the infrastructure, and assisted with cost-efficient approach by Matilda's Cost Analysis & Savings Strategies for the future roadmap to the migration to AWS.

- Aided in the day-to-day management strategies of infrastructure on the AWS for all the deployed applications.

- Benefited the utility company with Matilda's Utilization capture functionality; Matilda experts helped analyzed the client's portfolio at a faster scale for migration to AWS empowering with consolidation of their current utilization and future capacity planning based on Matilda's Utilization Reports.

Business Value

- Formed visualizations of the upstream and downstream dependencies for the client infrastructure.

- Established greater visibility into their inherited infrastructure through user-friendly dashboards, and structured host level and IP level reporting.

- Improved efficiency by discovering the key bottlenecks of applications and databases. Discovered EOSL assets of complete application software stack including operating systems and firmware, resulting in significant saving in license and maintenance costs.

- Boosted significant savings in time and effort in planning, monitoring, and managing their critical utility infrastructure through secure Discovery Data, and Cost Analysis.

- Implemented Automated Workflows which resulted significant improvement in productivity, quality, and service levels.

- Recognized all applications portfolio and recommended 7-R strategies for their current Database Servers for both Production, Non-Production environments.

- Offered Matilda recommended Pricings plans options for Memory, Storage, vCPU counts, impacting client's Line of Businesses, Regions, Environments, Applications from an IP level.

- Matilda's Cloud Assessment Strategies enabled the client with a self-service navigation and manipulation of the data handling to support overall cloud planning efforts organization wide.

- Formed detailed profile of Host-to-IP level grouping, along with associated platform, OS, OS Versions, Instance Type, Make and Model which enabled the client taking quicker and better cloud pre-migration decisions.

- Discovered and augmented utility company's over 80% out of support assets portfolio back in compliance.