

Title: Modernize - Application - Database

Industry: Semiconductor Company

Location: North America and Europe

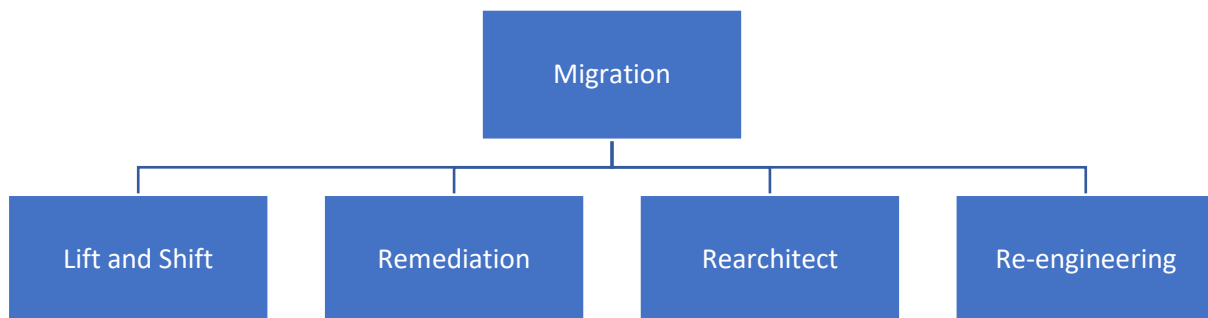
Timeline: 6 Months

Summary

The customer is one of the leading semiconductor manufacturing companies with presence in North America and Europe. Primary goal for the customer is to reduce overall IT operations cost, improve application reliability and performance by leveraging cloud native tools and utilizing next gen capabilities.

Migration Approach

Matilda platform analyzed complete infrastructure to identify the OS level details, services and dependencies. Matilda platform was able to group applications into waves and groups. Depending on the application characteristics, appropriate migration strategy is identified for the application. Migrated common and dependent services, databases as first group and applications for smoother migration. Rearchitected few applications to utilize MySQL database on RDS instead of Oracle. Applications running on RHEL were suggested and implemented to run on CentOS Operating system. Created pipeline for automated application release process. Leveraged AWS monitoring services to monitor the instances



Challenges

- Current applications were developed on current ecosystem and these legacy systems and infrastructure reached end of life cycle.
- Most of applications are not ready for the cloud native capabilities and they had to be rearchitected to leverage cloud native tool capabilities

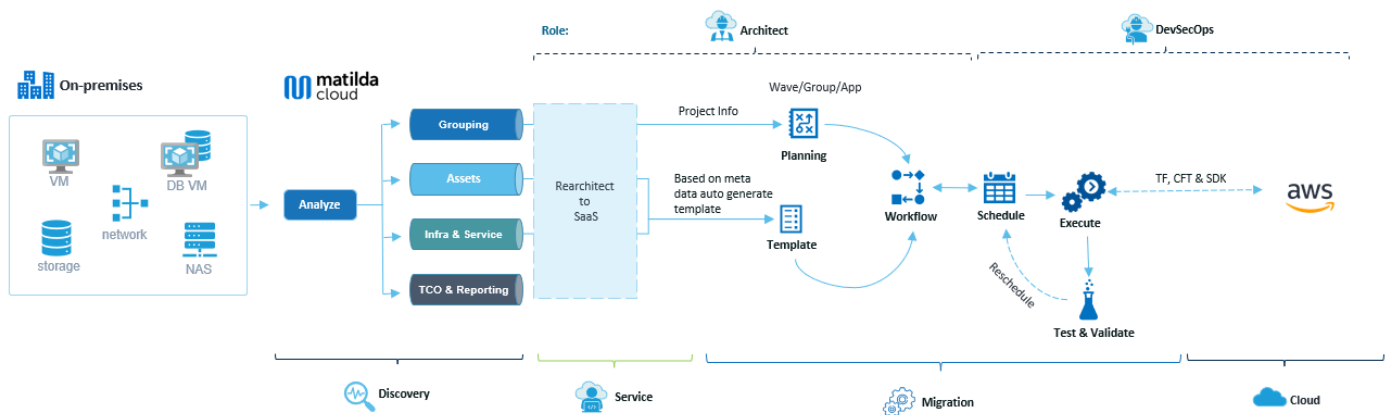
- Some applications had licensing issues and hence server to server migration was adopted using AWS SNS
- Application authentication system was decided to have at on-premises. Hence, AD connector was used along with AWS Direct connect approach
- Existing applications had several security issues which were carefully addressed application by application and by standardizing landing zone creation in automated approach

Migration Scope

- Standardization of target deployments by automating landing zone creations
- Ensure corporate security governance practices are followed during migration like Network, Data and User Security configurations, Resource Tagging, ability to rollback in case of failures
- Seamless data migration with minimal downtime to applications

Architecture

Implementation Architecture



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