UnifyCloud™

Discover Once, Many Engagements

Microsoft Partner of the Year
2022 Finalist – Migration to Azure
2021 Finalist – Modernizing Applications
2020 Winner – Solution Assessment

Asian Telephone Company Quickly Modernizes its Application and Database Portfolio

One of Asia's largest mobile telephone operators wanted to take advantage of the benefits of modernization while also understanding and reducing its impact on the environment.

The portfolio included 28 .NET applications and 9 Oracle databases. CloudAtlas was used to perform an assessment of the portfolio with analysis of over 130 million lines of code completed in just forty five hours. This analysis included a full cloud economic assessment with cloud readiness, migration options, level of effort, VM sizing, dependency analysis, and a data estate migration strategy. Static code analysis of the custom-built internal applications included insights and guidance at the code-block and line of code, recommendations, sample code, and level of effort for remediation and modernization. The company used this guidance for decision-making to kick-start a successful modernization program.

Rapid Assessment to Modernization to Migration

Infrastructure data was collected using Movere and analyzed using CloudAtlas which scanned 133 million lines of code and associated databases and schemas in just forty five hours. A manual scan at the same level of detail would have required almost forty thousand developer days or more than 100 years![1] This analysis generated cloud readiness and the cost, effort and emissions impacts of all migration options for each application and database. This broad view and data-driven analysis allowed the company to make informed decisions based on its goals.

While analysis highlighted that migration to VMs was the route of least effort, that route did not deliver the transformational and environmental impacts the company was looking for. With the ability to drill down into each application and line-of-code level modernization requirements, the company acted on the recommendation to convert the .NET applications to .NET Core and modernize 19 of the applications to App Service and the remaining 9 applications to VMs with the 9 Oracle databases migrated to Azure Database for PostgreSQL. They felt this allowed them to achieve the modernization, cost savings and sustainability benefits they were seeking while also managing the effort required to complete the project. Thanks to the detailed data-driven and comprehensive analysis delivered by CloudAtlas, the company had all the guidance that was needed to remediate, modernize, and migrate according to the recommendation – code level remediation guidance including replacement code, dependency mapping that organized workloads into move groups for phased migration, and a landing zone to ensure a safe, secure, and trouble-free migration.

In the first phase, the company focused on two business critical applications which were selected because they required the fewest changes and remediation effort. These applications could be rapidly modernized allowing the project team to gain experience with the process and better equip them for migrating the full portfolio. This also gave leadership a chance to see the process in action and gain confidence in the full modernization and migration effort. This phase of the project and full modernization of these two applications was completed in just two weeks.

Results

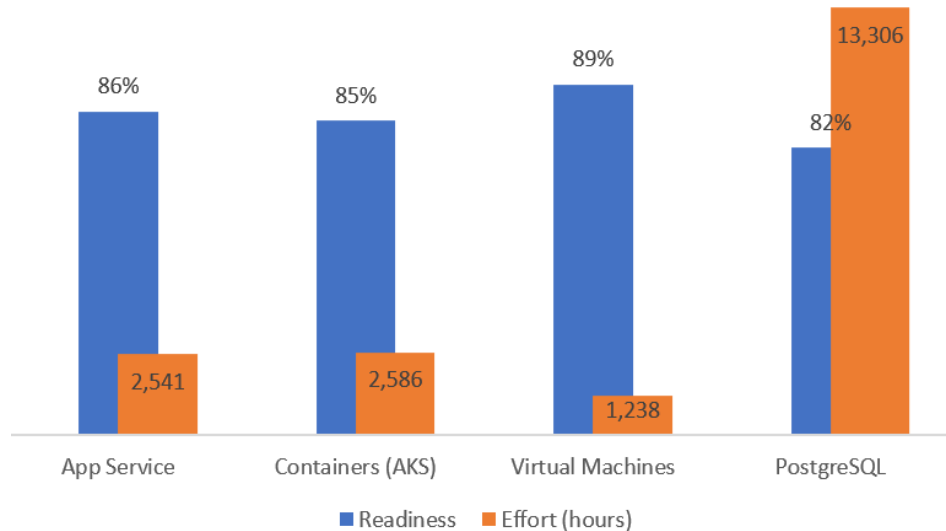**133 million lines** of code scanned in **45 hours**

Modernization and **migration of 2 mission critical apps in 2 weeks**

28% reduction in app and data **costs**

Estimated Readiness and Remediation Effort

	App Service	Containers (AKS)	Virtual Machines	PostgreSQL
Readiness	86%	85%	89%	82%
Effort (hours)	2,541	2,586	1,238	13,306

■ Readiness ■ Effort (hours)

Based on the results of the initial phase, the company then proceeded to migrate the entire portfolio. Completed over the following months, this migration project would deliver substantial savings over on-premises and Oracle licensing costs, provide innovation and scalability benefits for the new cloud infrastructure, and reduce the company's carbon emissions thanks to more sustainable cloud infrastructure.

The company was pleased with the outcome of the project, impressed with the level of detail and specific guidance in the application and database modernization analysis. This included multiple options for modernization, costs and level of effort associated with each option and the line-of-code recommendations that accelerated remediation, getting them to the cloud fast. Importantly, CloudAtlas showed them how PaaS could help them achieve the modernization and sustainability goals they were seeking. The company has continued its commitment to modernization and Azure as it takes advantage of the opportunities presented by a modern cloud infrastructure.

1 Comparison based on Microsoft IT estimates that an average developer with average knowledge of Azure and the apps they want to modernize to Azure can manually review 10,000 lines of code in 3 days.