

Migrating 45 Legacy Applications to Azure in Six Months

AT A GLANCE

Challenges

- Aging on-premises infrastructure
- Legacy GAC and COM dependencies
- Inconsistent application architectures and standards
- Cloud security and observability requirements

Methods

- Collaborated directly with internal application teams
- Modernized application frameworks and dependencies
- Standardized Azure DevOps deployment pipelines
- Conducted security scanning before migration

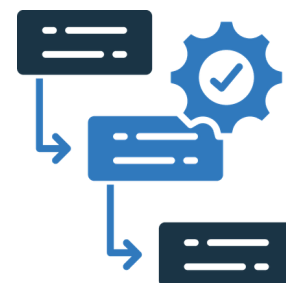
OBJECTIVES

A global technology manufacturer needed to accelerate a broader cloud adoption initiative by migrating approximately 45 internal applications from on-premises infrastructure to Microsoft Azure. The engagement required more than relocating applications. Legacy frameworks, dependency management practices, deployment processes, logging, secrets management, and security controls needed to be evaluated and modernized to support cloud operation. IntelliTect's objective was to create cloud-ready applications deployed through a consistent and repeatable Azure architecture while establishing technical patterns the organization could apply to future migrations. The Microsoft-funded ECIF engagement was also intended to generate practical lessons and strategic recommendations that could inform the organization's larger cloud modernization roadmap.



SOLUTIONS

IntelliTect modernized and migrated approximately 45 applications using an application-by-application approach. Applications were upgraded to .NET Framework 4.8 or .NET 8 as appropriate. GAC-based dependency management was replaced with NuGet, legacy packages were updated and distributed through JFrog Artifactory, and COM dependencies were replaced with cloud-suitable API integrations. Applications were deployed using Azure App Services and Azure Static Web Apps, supported by standardized YAML deployment pipelines in Azure DevOps. Azure Log Analytics provided centralized logging, Azure Key Vault secured application secrets, and code scanning tools were used to identify security concerns before migration. Throughout the engagement, IntelliTect worked directly with application owners while providing strategic guidance on how the migration approach could scale across the broader organization.



BENEFITS

Accelerated Cloud Migration

A reusable GitHub-native workflow gives teams a consistent way to request, execute, and track future migrations.

Modernized Application Architecture

A reusable GitHub-native workflow gives teams a consistent way to request, execute, and track future migrations.

Repeatable DevOps Practices

Standardized YAML pipelines in Azure DevOps created a consistent deployment model that could be reused in the future.

Improved Security and Observability

A reusable GitHub-native workflow gives teams a consistent way to request, execute, and track future migrations.

Strategic Roadmap Clarity

Helped demonstrate how teams could take greater ownership of future migrations using the patterns and practices established during the project.

