

Bringing new life to Legacy Systems with Application Modernization

Digital technologies have opened an ocean of new opportunities for today's enterprises by creating greater efficiencies, elevating quality and promoting products. But sometimes, legacy systems don't simply support. Skilled workers retire and legacy systems often become expensive to support – making legacy modernization a mission-critical task.

Legacy modernization isn't a far-off dream

Application Modernization services address the migration of legacy to new application or platforms. It is at the core of Digital Transformation success. Digital Transformation can seem like a far-off dream for enterprises still relying upon legacy technology. But it isn't a dream anymore. This is why you should go for app modernization.

- **Migrate/Modernize:**
App Modernization and Migration have drastically transformed enterprises by amplifying efficiency and productivity, customer and employee experiences along with cutting costs.
- **Cloud-Native/Optimized:**
Organizations need to choose between developing Cloud-Native Applications or Cloud Migration and optimize them to cut costs, enhance efficiencies and deliver value.
- **Low/No Code:**
Developers can simply build apps using drag-and-drop tools while availing the benefits of Low-code or No-code (LCNC) app development platforms.
- **Containers:**
Enhance productivity, move quickly, deploy software effectively, and operate at a remarkable scale with App Containerization
- **Micro services:**
Micro services have gained popularity because of its flexibility and scalability. It enables you to support various platforms like web, mobile, IoT, wearable and much more.
- **Mobility for LOB apps:**
Harness the advantages of LOB apps to maximize flexibility and mobility options for employees. It also enables hassle-free testing and deployment with powerful security at lower costs.

Our Process

Migrating apps to Azure largely depends upon the enterprise requirements, priorities and the type of app you're migrating. Outdated business applications, specifically legacy ones that have been used for a long period of time have exceptional features that need precise planning. At KCS, we handle everything ranging from data requirements to compliance to security and integration needs.

1. Environment Assessment

Before planning for your migration strategy, our experts evaluate your existing infrastructure. To build your migration plan, Microsoft renders various migration tools that provide a range of servers, devices, performance metrics as well as profile information. Assess IT environments for Azure migrations with 'The Microsoft Assessment and Planning (MAP) Toolkit'. This toolkit helps to document workloads, applications, and processes while reviewing them. It also includes:

- Infrastructure, Availability & Capacity

- Network architecture
- Performance Requirements
- Resilience Requirements

2. Selecting Suitable Migration Strategy

There are three types of migration strategies from which our experts choose the best suitable one according to the business requirements and the environment. Sometimes we even integrate two or more strategies according to client's business needs. These strategies include:

1. Lift and Shift

This strategy precisely migrates everything to the cloud. But this wastes a lot of resources and increases expenses as one has to pay for data that they not using currently.

2. Application Evolution

In this strategy, identified pieces of the application are migrated to cloud. It is beneficial to users as it migrates app into chunks rather migrating everything like lift and shift. But it might also be a little more expensive to operate.

3. Application Re-Architecting

This strategy divides the applications and rebuilds them in more accessible and modern design. It eradicates the code that constrains agility while preserving business-relevant functionality. This is one of the best options for legacy applications that are still business-relevant and offer differentiation.

3. Running Pilot Migration

After the selection of correct strategy, our experts deploy a pilot migration to test the application in virtual situations that replicates everyday operations. The main purpose is to know how users can interact with the new environment before an official launch. It is a time-consuming process because it requires users testing the application. Despite this fact, it's a minimal-risk approach to identify impending issues before performing the migration.

4. Migrating your Legacy Application

After accessing and preparing existing workloads and applications, we offer you the blueprint to successfully migrate your legacy application to Azure. For the security of your data, we back up everything so you don't lose a piece of important information. Although post-migration testing is critical, our migration experts' double-check security and compliance to make sure all the data is present. The risk of attempting legacy application migration isn't worth it if you don't have the correct blend of expertise. With in-depth knowledge and experience, our legacy migration experts can help you successfully migrate to Cloud.

5. Managing your Cloud Usage and Resources

After moving to Cloud, our experts regularly monitor and optimize the applications hosted in Azure to ensure you get the most out of the cloud or else you have to pay for services and extra storage you don't even use. Simply manage cloud resources:

- **Azure Advisor:** Enhance performance and availability while receiving customized suggestions with your Azure portal.
- **Cost Management:** Eliminate idle cloud resources and only pay for what you exactly use with this amazing feature that tracks and recommends Azure spend, cost, and usage reports as well as send alerts.

KCS Approach towards App Modernization

KCS is a global leader in delivering bespoke digital services, smart products and consulting solutions to clients all around the world.

We transform your legacy applications to help you become more proficient and agile through New IT.

With deep domain knowledge, our experts strategically align your application needs with your business objectives. Our modernization experts enable IT leaders to eliminate excessive operational costs, capital expense and liberate employees for strategic and profits-gaining initiatives. Our wide range of solutions includes Legacy App Modernization, Enterprise Portal Solutions along with Porting Existing Apps across Technology and/or Platforms.

Our strategic approach towards App Modernization includes:

- Selection of scalable IT integration and Solutions
- Application Rollout Assessment and Roadmap Enterprise Architecture / Platform strategy Assessment
- Application development using Java, Open Source Technologies and .Net.

No matter where your enterprise stands on the path towards legacy modernization, KCS can enable organizations to build successful roadmap keeping in mind their business objectives and priorities.