

CLOUD MODERNIZATION



Many traditional enterprises use legacy systems and applications that often struggle to achieve the scale and speed needed to meet modern customer expectations. Business leaders and IT decision makers constantly have to choose between maintenance of legacy systems and investing in innovative new products and services.

As the journey to the cloud gathers pace, organizations have been looking for ways to accelerate cloud adoption and for a prescriptive approach to application modernization. The application modernization approach can be divided into discrete increments that focus on three phases: assess, modernize, and manage.

Modernizing your applications helps you reduce costs, gain efficiencies, and make the most of your existing investments. It involves a multi-dimensional approach to adopt and use new technology, to deliver portfolio, application, and infrastructure value faster, and to position your organization to scale at an optimal price. After you optimize your applications, you must operate in that new, modernized model without disruption to simplify your business operations, architecture, and overall engineering practices.

Migrating applications to Cloud by using the rehosting (lift and shift) approach doesn't automatically give you the benefits of the elasticity, resiliency, ease of deployment and management, and flexibility that cloud offers. Nor does it automatically modernize your culture and processes to enable high-performing software development. Modernization means taking your application environment in the form that it's in today (most likely, legacy and monolithic) and transforming it into something that is more agile, elastic, and highly available. In doing so, you can transform your business into a modern enterprise.

Modernizing your applications to meet customer demands and to take advantage of the changing technology landscape is critical to maintaining your organization's competitive advantage and market share. A key strategy to meeting these business demands is to deliver both continued use and real value by converting aging applications to more modern architectures. Having a comprehensive understanding of the application's details and its interrelationships with other systems is a critical step in performing application modernization.

Here's how you can ensure you're not just moving applications to the cloud, but actually capturing its value:

- ✔ Use a scalable and automated cloud foundation for newly upgraded applications; this landing zone (provided by partners like Amazon Web Services) provides a secure and managed environment in which apps can operate efficiently.
- ✔ Containerize any application components that cannot be replaced by cloud-native services. Containerizing these components can improve operational consistency, portability, and efficiency in places where the application cannot take advantage of cloud-native features.
- ✔ Investigate innovative designs such as microservices, which allow employees to work in small groups. Microservices eliminate bottlenecks while increasing flexibility, expediting delivery, and lowering risk by allowing teams to work independently of one another.
- ✔ Full-stack automated deployment leveraging Infrastructure as Code (IaC) and CI/CD pipelines adds automation across the cloud environment. Not only will the newly rearchitected applications benefit from cloud-native services, but they will also be able to be automatically updated and maintained, assisting the organization in making continual improvements.
- ✔ Examine whether emerging technologies such as artificial intelligence and machine learning can help the newly modernized app even more. These kinds of integrations can help open up new business prospects by providing sophisticated data insights or new functionalities that meet changing client demands.

We at Ignitec can assist you in your cloud adoption, migration or management strategy regardless of your size. The team is equipped to provide up-to-date guidance, solutions for your digital transformation and optimization of your critical assets.