TCS Azure Application Development Services
Microsoft Business Unit
Due to the changing demands and market fluctuations, organizations are looking to drive digital transformation and build futuristic IT solutions in order to expand their business ecosystem, amplify customer value and experience, establish new revenue channels, and fuel top-line growth. A solution that facilitates the transition of monolith applications to cloud-based microservices architecture can help organizations become interoperable and explore new revenue models.

TCS Azure Application Development Services is an application modernization service suite that uses the principles of microservices architecture, agile and DevOps to foster innovation at scale and facilitate the adoption of advanced technologies such as containers, serverless apps, machine learning and AI to achieve technology debt reduction and business transformation. The service allows enterprises to modernize legacy technologies, build customized cloud-native applications and adopt modern cloud integrations quickly and also aims at reducing the total cost of IT ownership.

Overview

Enterprises across the world are looking to adopt agile methodologies and DevOps practices for their legacy portfolios to enable digital transformations, expand business ecosystems, and deliver amplified customer experience. There is a need for organizations to shift their focus from maintaining legacy applications to building cloud-native applications in Azure to keep up with the rising competition. The continued increase in technical debt is impacting their capital expenditure.

Building cloud-native and API-based applications in Azure can enable organizations to build a digital platform and create business value, embrace the ecosystem, reduce operating costs, accelerate innovation and enhance customer experience. TCS Azure Application Development Services helps enterprises to move towards adoption of cloud-native architecture in Azure which uses containers, microservices, APIs and loosely coupled designs to create applications that are agile, intelligent and purpose driven. This helps enterprises respond to changing market needs at a much faster pace.
Solution

TCS’ application modernization solution provides the following services to enable smooth adoption of cloud-native architecture in Azure (see Figure 1):

- **Web application modernization**: Move existing on-premise applications to Azure or re-engineer legacy technologies such as VB, ASP and Powerbuilder to create modern native applications.

- **Application containerization**: Refactor applications for containerized deployments aligned with orchestration solutions such as Azure Container Instances, Azure Kubernetes Service (AKS) and Openshift on Azure.

- **APIfication and integration modernization**: Build a complete connected ecosystem which is secure, resilient and open using Azure API Management, Logic App, Event Grid and other integration services.

- **Mainframe modernization**: Migrate or re-engineer mainframe applications to Azure IaaS or to cloud-native architectures by reverse-engineering the mainframe code.

**Figure 1: An overview of TCS Azure Application Development Services**
Benefits

TCS Azure Application Development Services provides a range of benefits to its partners:

- **Cloud modernization office:** Leverage the cloud center of excellence (CoE) to formulate the organization’s cloud strategy, adoption path, and target-state architectures and accelerate the cloud modernization journey. Increase cloud ROI by ensuring that Azure is adopted optimally, quickly and efficiently.

- **Open-source software adoption:** Replace commercially licensed software with open source technologies running in Azure, such as Azure database for MySQL and MariaDB. Adopt open source NO-SQL databases like MongoDB and CassandraDB in Azure Cosmos DB.

- **Improve operational efficiency:** Improve operational efficiency by standardized provisioning of cloud services and application of consistent cloud governing policies.

- **Exponential growth:** Build digital platforms that provide exponential business value, reduce operating costs and accelerate innovation.

The TCS Advantage

A partnership with TCS helps enterprises take advantage of a range of key differentiators:

- **Strategic partnership with Microsoft:** TCS’ Azure experts have the requisite domain knowledge to provide research-backed solutions to businesses for application modernization. A Gold Partner of Microsoft, TCS collaborates closely with their engineering team to shape and customize our solutions. Our joint go-to-market offerings with Microsoft in the application modernization area help enterprises derive exponential business value.

- **Future-ready tools and accelerators:** Our pioneering solutions help enterprises capitalize on opportunities at an accelerated pace. With products such as TCS Mastercraft Transform Plus and tools like Modernization Propellor, Cloud Migration Factory, and TCS Microfy, our solutions help accelerate the application modernization journey.

- **Cloud technology for accelerated top-line growth:** Committed to delivering real value to customers, our solution helps enterprises build cloud-native applications quickly and efficiently to harness new revenue streams. TCS has identified key business KPIs for every cloud-native program and tracks investments and strategies against these benchmarks.

- **Consumption-based pricing:** TCS offers an attractive catalog-based pricing model, with a pay-as-you-go option. Businesses can pay only for services realized on the cloud, and de-risks themselves from making huge investments.
Contact
Visit the Microsoft Business Unit page on tcs.com
Email: dwmarketing@tcs.com

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is a purpose-led transformation partner to many of the world’s largest businesses. For more than 50 years, it has been collaborating with clients and communities to build a greater future through innovation and collective knowledge. TCS offers an integrated portfolio of cognitive powered business, technology, and engineering services and solutions. The company’s 469,000 consultants in 46 countries help empower individuals, enterprises, and societies to build on belief.

Visit www.tcs.com and follow TCS news @TCS_News.