

Application Innovation/ Build with Containers & Kubernetes Fast Start

Revitalize and optimize your application portfolio with containers and Kubernetes. Mindtree Limited helps you modernize your applications following best practices with an agile methodology. Utilizing cutting edge DevOps, we enable app developers and IT operations to deliver business value with speed and innovation. For this solution we deliver you:

- A fully-functioning Kubernetes cluster to host
- Fully deployed apps running in Kubernetes
- A configured CI/CD pipeline for fast, repeatable updates utilizing the DevOps tool chain you prefer
- Team mentoring for value engagement
- Application Portfolio Assessment
- Azure Governance ensuring appropriate cost management and security

Requirements:

- An available Azure® subscription with sufficient funding
- Familiarity with Docker
- Access to source code for applications
- Availability of required stakeholders (application architects, cloud architects, DevOps manager, etc.)

Duration 2–3 weeks

Benefits

- Cost savings with lesser overheads
- Faster time to market with a cloud-based, continuous delivery model
- Reduced risk with self-healing, hosted control panes
- Increased scalability with easy cluster scaling for peak demand

Get started. To learn about pricing and how to begin

What to expect

At Mindtree Ltd, we empower you to be successful in application innovation.

Week 1

- Environment access
- Access to Application code
- Cloud account/subscription creation
- Platform Deployment (MVC + CAST agent)
- Application code scan for cloud ready assessment using CAST
- Report & identify the cloud ready application



- Agreement from customer on the application identified for cloud transformation
- Cloud foundation setup (VNet + Resource Group + NSG + IAM) using MVC
- AKS cluster creation using MVC which encapsulates monitoring, analytics & logging

Week 2

- Deploy Kubernetes cluster in Azure subscription using Azure Kubernetes Service (AKS) with Azure Resource Management (ARM) templates.
- Configure cluster to support monitoring, security, logging and storage best practices.
- DevOps pipeline configuration on Azure DevOps for app deployment
- Minimal application configuration changes for Azure AKS cloud deployment
- MVC policy engine for cloud governance setup
- Custom AKS governance rule configuration by IT admin
- Application running successfully on Azure AKS platform
- Integrate cluster into Azure Active Directory
- Configure additional Azure components if required necessary
- Configure Azure governance and Security templates.
- Migrate data into container or Azure platform database.
- Perform initial deployment of application containers to new AKS cluster.

Week 3

- Validate application functionality.
- Create and configure Azure Container Registry for private image storage.
- Create automated DevOps processes for application updates.
- Set up/configure CI/CD pipelines.

Deliverables

- Application architecture diagrams
- Azure Governance Blueprints, policies and security
- Application portfolio Migration plan
- Fully configured Kubernetes cluster in your Azure account
- An application deployed and running in the cluster