Azure Kubernetes Service Enterprise Offering

4-week service offering to evaluate your digital estate and assess your software development processes. Kin and Carta will create a baseline so that you can measure your progress on the path to App Modernization. After the assessment, we will create Azure Kubernetes Service (AKS) Infrastructure and pipeline to Production for an MVP application.

Overview

Many organizations understand the benefits of containerization and the value of Continuous Integration/Continuous Delivery (CI/CD) but lack the expertise or experience to get started correctly. During this 4-week assessment, we will evaluate the current state of your digital estate and your software development processes in order to create a baseline that will help you measure your progress as you move forward on the path to App Modernization. We will include Security, Finance, and Governance in the analysis so that you can create a plan that you can actually implement.

Kin + Carta will help you create a Kubernetes environment and a CI/CD pipeline that will deliver a working MVP app to a Production environment. All of this will be created following standard Infrastructure-as-code patterns, allowing you to use it as a basis for further development or other projects.

Challenges

• **Lack of Experience:** Organizations have on-premise applications that would benefit from the rapid innovation, scalability, and reduced maintenance of the cloud but lack the experience to know how to best migrate the apps.
• **Lack of Knowledge:** Organizations understand the value of containers but lack the knowledge of how to best set up infrastructure-as-code and CI/CD pipelines that are efficient, secure, and enable rapid delivery of value.

Solution

• We will collaborate with your application stakeholders, IT organization, Security, Finance, and Governance to identify those applications that would benefit from being containerized via Kubernetes.
• We will create an architecture and tech stack that will meet the needs of your organization.
• We will create a scorecard that will show your maturity as a modern software development organization in comparison to industry standards that you can use a baseline to help identify gaps in your organization.
• We will build out Kubernetes clusters for an MVP version of a selected app along with a CI/CD pipeline that will test and deliver the code to a Production environment.

Staffing Model

1	**3**	**0.2**	**1**
Solution Architect	Developers	Director	Technical Product Owner

4 Week Assessment Activities

Week 1	Week 2	Week 3	Week 4
Support client in Azure Developer Velocity Assessment	Create cloud migration document	Containerize pilot application	Testing and deploy to Production
Analyze app portfolio to Identify and prioritize candidates to move to AKS	Choose MVP application	Set up and configure container registry	Retrospective
Analyze and assess the current DevOps and CloudNative development skills within the team	Define branching and CI/CD pipeline	Deploy to Development environment	Complete Application Roadmap
Ensure prerequisites are met	Review/Confirm Security and Infrastructure requirements	Build out Staging and Production Pipelines	Review Governance, Security, and Finance operations
	Create baseline Development AKS environment	Migrate data to Azure (if necessary)	

Deliverables

• *Working CI/CD pipeline to Production*
• *Roadmap*
• *Tech Stack*
• *Prioritized backlog*
• *Architecture diagrams for MVP*

• *Cloud Deployment Document*
• *Fully deployed Kubernetes cluster in Production*
• *Functioning MVP app in Production*
• *Infrastructure as code checked into repository*

KIN+CARTA

Kin+Carta is a global digital transformation business and Gold Microsoft Partner.
We make the journey to becoming a digital business tangible, sustainable, and profitable.
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