Azure Kubernetes Service Enterprise Offering

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

Overview

Many organisations understand the benefits of containerisation 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 Modernisation. We will include Security, Finance, and Gover-nance 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:** Organisations 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:** Organisations 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 organisation, Security, Finance, and Governance to identify those applications that would benefit from being containerised via Kubernetes.

• We will create an architecture and tech stack that will meet the needs of your organisation.
• We will create a scorecard that will show your maturity as a modern software development organisation in comparison to industry standards that you can use a baseline to help identify gaps in your organisation.
• 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	Containerise pilot application	Testing and deploy to Production
Analyse app portfolio to identify and prioritise candidates to move to AKS	Choose MVP application	Set up and configure container registry	Retrospective
	Define branching and CI/CD pipeline	Deploy to Development environment	Complete Application Roadmap
Analyse and assess the current DevOps and CloudNative development skills within the team	Review/Confirm Security and Infrastructure requirements	Build out Staging and Production Pipelines	Review Governance, Security, and Finance operations
Ensure prerequisites are met	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*