



# Azure Kubernetes Services 2-Day Workshop

Adoption of Azure Kubernetes Service (AKS) enables companies to ship new services to customers at rapid speed. AKS makes deploying and managing containerized applications easy by offering serverless Kubernetes, an integrated CI/CD experience, and enterprise-grade security and governance.

Are you leveraging containerized applications and the cloud across your organization to transform and gain a competitive edge?

Learn first-hand from Redapt experts how you can leverage containerized applications and AKS to deliver, operate, and scale applications and services faster than ever before.



425.882.0400  
results@redapt.com

redapt.com



## Our Workshop

### Day 1

Day 1 of this two-day workshop features a full-day, hands-on technical workshop where attendees create a cluster, explore the components of the AKS cluster, and discuss networking, security and governance considerations. Further, we will explore common considerations for IT Ops teams and describe strategies and tools to ensure the cluster remains secure and operational.

### Day 2

We continue with Day 2 of the AKS Workshop series by learning first-hand from Redapt experts how you can leverage containerized applications and AKS to deliver, operate, and scale applications and services faster than ever before. In this full-day, hands-on workshop, we will discuss the developer experience, and highlight how an operationalized AKS cluster enables developers to build and release containerized applications in a procedural manner.



# Day 1

---

## Agenda

- App Modernization and Cloud Native Trends
- Provisioning an AKS Cluster in Azure
- The Moving Parts of Kubernetes
- Scheduling and Deployment Primitives
- Deploying an Application to AKS Cluster
- Pod Security Concepts
- Ops Considerations in AKS
- Ensure Your Running AKS Cluster is Secure

## Prerequisites

- Experience with Docker (build, ship & run containers) (Docker Get Started Pt 1-3, <https://docs.docker.com/get-started>)
- Experience deploying an application on minikube (kubect) (Getting started with minikube, <https://kubernetes.io/docs/setup/learning-environment/minikube/>)
- Azure Subscription with the appropriate permissions to create an AKS Cluster

# Day 2

---

## Agenda

- Recap of AKS Workshop Day 1
- Containerization Concepts
- Deploying to an AKS cluster
- Debugging Tools and Techniques
- Instrumentation and Monitoring
- Dev Ops

## Prerequisites

- Visual Studio or Visual Studio Code with the Azure Dev Spaces extension. (refer to <https://docs.microsoft.com/en-us/azure/dev-spaces/about#supported-regions-and-configurations>)
- Familiarity with Docker Get Started Pt 1-3, <https://docs.docker.com/get-started> and/or experience with Docker (build, ship & run containers). Experience deploying using the Kubernetes command line tool (kubect) to deploy applications, inspect and manage clusters, and view logs will be helpful
- Azure subscription with an operational Azure Kubernetes Cluster to use during the workshop.
- Azure Dev Ops Account with permissions to create and run build and release pipelines

# Meet Redapt

Providing a clear path forward in a complex and constantly changing tech landscape.



## Infrastructure

- Datacenter Infrastructure
- Advanced Engineering Services
- Infrastructure System Integration
- Global Logistics
- IT Asset Disposition



## Operations

- DevOps Automation
- Site Operations
- Modern Datacenter
- Managed Services



## Cloud Engineering

- Public Cloud Implementation
- Hybrid Cloud Implementation
- App & Data Migration
- Emerging Technology Integration



## Business Transformation

- Cloud Native Apps
- Advanced Data & Analytics
- Artificial Intelligence
- DevOps Enablement
- IoT and Edge Solutions

Find your path at [redapt.com](https://redapt.com)