Azure Kubernetes Services (AKS) Fast Start

It's difficult to maintain an innovative business when your infrastructure is constantly wreaking havoc on your applications. When is the right time to introduce DevOps into your organization? Who can guide you through the process?

Redapt offers a "DevOps Faststart" to businesses, like yours, that are looking to make the move and can take advantage of our subject matter experts for both coaching and advice along the way.

Our team offers a rare breadth of experience across multiple tool sets— Microsoft AKS, Azure DevOps, Docker, Jenkins, among many others. The Redapt DevOps practice will help 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.

With Redapt, you can get a quick education and Pilot of a workload or app, so you're empowered to apply these powerful processes throughout your organization.

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Duration: 2–3 weeks

For this solution we deliver:

- Fully-functioning Kubernetes cluster for your apps
- 1+ fully deployed apps running in Kubernetes
- A configured CI/CD pipeline for fast, repeatable updates utilizing the DevOps tool chain you prefer
- Team mentoring to ensure you receive the greatest value from this engagement
- Customized Azure Governance to ensure appropriate cost management and security

Requirements:

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

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What to Expect

Phase/Activity	Description
Discovery & Design	- Kubernetes platform training - Initial calls to scope out and reach a common understanding of the project goals and individual tasks that must be completed to achieve the goals. - Review Governance and Security requirements - Review pilot application requirements - Identify pilot application - Review application architecture (tiers, database(s), other connected systems and current hosting platforms).
AKS Deployment	- Define deployment steps - Containerize chosen application - Kick-off to begin the AKS deployment. - Deploy Kubernetes cluster in Azure subscription using Azure Kubernetes Service (AKS) - Deploy known-state sample app to smoke test cluster functionality
Pilot App Deployment	- Create and configure Azure Container Registry for private image storage. - Configure cluster to support monitoring, security, logging and storage best practices - Integrate cluster into Azure Active Directory (AD) for authentication and authorization. - Configure additional Azure components as necessary (storage, network, VPN, etc.) - Helm chart created to deploy and run the chosen Pilot application. - Integration of Helm deploy process, with a CI/CD platform (existing or Jenkins on k8s).
Workshop & Handoff	- Kubernetes workshop conducted over 4-8 hours, featuring the PoC application where applicable. - Final Design rendered and given to the client. - Additional jumpstart documentation / presentations to further enable Kubernetes adoption.

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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

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

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