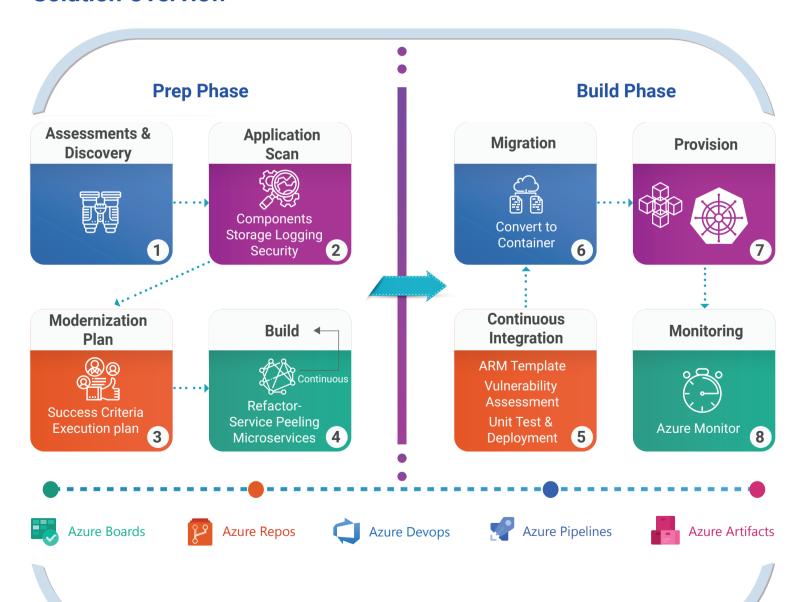# Kubernetes on Azure Quickstart: 4-Week Proof of Concept

Azure Kubernetes Service (AKS) makes deploying and managing containerized applications quick, easy, and scalable with dynamic auto-scaling. Nous' Kubernetes on Azure QuickStart will demonstrate the power of Kubernetes for your organization by deploying a selected application in your environment, containerized and orchestrated using Azure Kubernetes Service.

Microsoft Solutions Partner
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Specialist
Modernization of Web Application

Solution Overview

Prep Phase

Build Phase

Assessments & Discovery — 1

Application Scan — Components Storage Logging Security — 2

Migration — Convert to Container — 6

Provision — 7

Modernization Plan — Success Criteria Execution plan — 3

Build — Continuous — Refactor-Service Peeling Microservices — 4

Continuous Integration — ARM Template Vulnerability Assessment Unit Test & Deployment — 5

Monitoring — Azure Monitor — 8

Azure Boards   Azure Repos   Azure Devops   Azure Pipelines   Azure Artifacts

Engagement Plan

Prepare
Week 1

- Azure/AKS insight workshop
- Identify candidate application(s)
- Application scanning and dependency analysis
- Target architecture definition
- Azure account setup, policies, and compliance
- Migration roadmap and plan

Build
Week 2

- Setup repository
- Build scripts - Docker, orchestration
- Packaging and container registry
- Cloud automation provisioning
- Azure DevOps setup
- Configure Azure governance and security templates

Deliver
Week 3

- DevOps CI/CD pipeline with automated tasks
- Test run, validation, verification
- Release management workflow
- Blue-Green deployment strategy
- Deploy AKS cluster into production with ARM templates

Operate
Week 4

- Kubernetes control plane telemetry and log dashboards
- Declarative resource management - continuous monitoring, alarm setup, incident mgmt. workflows
- Auto-scaling
- Production support

Deliverables

- Azure Kubernetes insight workshop
- Fully configured Kubernetes cluster in customer Azure account for selected application(s)
- Azure governance, policies, and security blueprints
- Reference architecture and migration approach documentation
- Azure DevOps CI/CD pipeline with automated tasks
- Best practice guide to operate and manage AKS environment

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