

# Azure Kubernetes (AKS) Platform Deployment

Implements a production-grade Azure Kubernetes Service platform utilizing proven patterns from extensive Azure enterprise deployments. This service delivers a fully configured AKS environment with enterprise-scale landing zones, security controls, and operational capabilities aligned with Azure Well-Architected Framework.

## Prerequisites

- Completed Kubernetes Readiness Assessment
- Azure AD and subscription structure defined
- Virtual Network and security policies approved
- RBAC model and requirements documented
- Platform team availability confirmed

## Foundation & Infrastructure (4 weeks)

- AKS cluster architecture implementation
- Azure Virtual Network configuration
- Azure AD and RBAC integration
- Azure Monitor foundation deployment
- Container Registry setup

## Platform Services & Integration (4 weeks)

- Open Service Mesh implementation
- CI/CD pipeline integration with Azure DevOps
- Azure Key Vault integration
- Application Gateway ingress setup
- Azure Policy configuration

## Validation & Optimization (4 weeks)

- Security controls and compliance validation
- Disaster recovery and backup testing
- Performance and scalability verification
- Production readiness validation
- Cost optimization implementation

## Technical Outcomes

- Production-grade high availability established
- Multi-region resilience validated
- Security controls aligned with Azure standards
- Platform automation framework operational
- Cost optimization capabilities implemented

## Deliverables

- As-built AKS architecture documentation
- Infrastructure-as-Code repositories (Terraform/Bicep)
- Security and compliance validation reports
- AKS operational runbooks
- Platform validation matrix

## About Shadow-Soft

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