

Amazon Kubernetes (EKS) Platform Deployment

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

Prerequisites

- Completed Kubernetes Readiness Assessment
- AWS Organizations and account structure defined
- VPC and network policies approved
- IAM roles and requirements documented
- Platform team availability confirmed

Foundation & Infrastructure (4 weeks)

- EKS cluster architecture implementation
- AWS VPC and networking configuration
- IAM roles and IRSA setup
- CloudWatch monitoring foundation
- ECR and artifacts configuration

Platform Services & Integration (4 weeks)

- AWS Load Balancer Controller setup
- CI/CD pipeline integration with CodeBuild/CodePipeline
- AWS KMS and Secrets Manager integration
- Container Insights implementation
- AWS Shield and WAF 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-AZ resilience validated
- Security controls aligned with AWS standards
- Platform automation framework operational
- Cost optimization capabilities implemented

Deliverables

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

About Shadow-Soft

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