

Title: Cloud Cost Optimization and Observability Strategies in AKS Author: Kishore D. B. (Finastra Engineering, 2020–2023) Source: Finastra Cloud Engineering Technical Note (Internal Report, 2020)

Abstract: This public abstract highlights internal research on cloud cost optimization and observability strategies for multi-tenant SaaS deployments in Azure Kubernetes Service (AKS). It covers predictive scaling, telemetry pipelines, and performance monitoring best practices. The methodologies introduced informed subsequent monitoring and cost efficiency enhancements within cloud-based deployments.

Key Themes: - Predictive autoscaling and resource optimization - Observability pipelines with Prometheus and Grafana - Multi-tenant SaaS monitoring and telemetry - Operational efficiency and performance visibility

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