



Kanzal M. Ali Qalandri

📍 Pakistan ✉ kanzalqalandri@gmail.com ☎ +923254835782 🌐 [in/kanzalqalandri](https://www.linkedin.com/in/kanzalqalandri) 🌐 [kanzal.com](https://www.kanzal.com)

Summary

DevOps engineer passionate about cloud-native platforms and automation. I have hands-on experience building and scaling Kubernetes clusters, streamlining CI/CD pipelines, and driving cost savings through optimized system architecture. I have a proven ability to reduce deployment times by up to 40% and cut storage costs by 60% while maintaining five-9s availability. I bring a strong background in incident management, security compliance, and collaborative team environments.

Experience

PufferSoft

Cloud DevOps Engineer

November 2023 - Present

- Operate and scale Kubernetes clusters using Rancher for centralized management and high availability.
- Automate environment setup and configuration with Terraform, Ansible, and SaltStack infrastructure as code practices.
- Roll out updates through Helm charts and ArgoCD GitOps for predictable, traceable continuous deployment.
- Automate build and test workflows with Drone CI to accelerate feature delivery.
- Leverage AWS EC2, VPC, and Azure services to build scalable, cost-effective platforms with proper network segmentation.
- Design and manage AWS infrastructure including load balancers, security groups, and S3 storage solutions.
- Collaborate with cross-functional teams using Jira for project tracking and Zendesk for customer support integration.
- Participate in PagerDuty on-call rotation for 24/7 system monitoring and incident response.
- Conduct root cause analysis (RCA) for production incidents and implement preventive measures.

Certifications

Kubestronaut

Cloud Native Computing Foundation (CNCF)

- Demonstrates advanced expertise in Kubernetes ecosystem by earning all five Kubernetes certifications (CKA, CKAD, CKS, KCNA, KCSA), showcasing comprehensive knowledge of container orchestration, security, and cloud-native application deployment.

Project

Apporto - Linux & Kubernetes Admin

- Maintained and expanded cluster footprint by 3x using declarative GitOps; enabled zero-downtime upgrades for 20+ applications.
- Utilized infrastructure as code tools (Terraform, SaltStack, and Ansible) to automate and version-control environment provisioning.
- Assisted in modifying existing applications to run on k8s to maximize uptime through performance tuning.
- Developed bash scripting solutions for automated cluster maintenance and monitoring tasks.

AI Chatbot Deployment and Management

- Deployed and managed AI chatbot infrastructure on Kubernetes with automated scaling capabilities.
- Implemented monitoring and logging solutions to track chatbot performance and user interactions.
- Collaborated with development teams to optimize chatbot response times and reliability through performance tuning.

Rancher-Based Multi-Cluster Orchestration

- Deployed Rancher to manage 30+ downstream clusters; implemented centralized RBAC via Azure Entra ID.
- Automated cluster provisioning with Rancher's Terraform provider, cutting setup time by 60%.
- Enhanced teamwork efficiency through centralized cluster management and shared resource access.

AWS Infrastructure Design & Multi-Tier Architecture

- AWS Infrastructure Design & Multi-Tier Architecture.
- Designed and deployed scalable VPC architectures with public/private subnets across multiple availability zones.

- Configured Application Load Balancers (ALB) and Network Load Balancers (NLB) for high availability and traffic distribution.
- Implemented comprehensive security group rules and NACLs to secure EC2 instances and database access.
- Managed EC2 with auto-scaling groups, utilizing both on-demand and spot instances for cost optimization.

EFK/EFK Stack Deployment and Log Management on k8s

- Deployed and managed ELK stacks across multiple clusters using the ECK operator.
- Utilized the CNCF Logging Operator to efficiently collect, process, and forward logs to Elasticsearch.
- Integrated ElastAlert2 with Prometheus Alertmanager for comprehensive anomaly detection and timely notification within EFK infrastructure on Kubernetes.
- Collaborated with development teams to optimize log collection and analysis workflows.

S3 Storage Optimization & Data Management

- S3 Storage Optimization & Data Management.
- Migrated over 2TB of application data and container images from EBS to S3, achieving 80%+ cost reduction.
- Configured S3 lifecycle management to streamline data movement between storage classes and automate archival processes.
- Configured S3 bucket policies and IAM roles for secure cross-service access.
- Set up S3 event notifications for automated processing workflows and backup validation.

Cost-Optimized Harbor Registry with Security Scanning

- Set up OCI-compliant Harbor registry; onboarded 1000+ container images and Helm charts.
- Enabled integrated Trivy vulnerability scanning—blocked 15 high-severity vulnerabilities before production.
- Migrated 1 TB of docker image data from block storage to AWS S3, reducing storage costs by 86%.

Continuous Integration & Delivery (CI/CD) with Drone CI and ArgoCD

- Designed continuous integration pipelines with Drone CI to automate code builds and push images to the container registry.
- Established continuous deployment workflows using ArgoCD and GitOps for reliable, repeatable application rollouts.
- Integrated manual approval gates for production deployments to maintain oversight and ensure safe releases.

Amazon DocumentDB Provisioning & Audit Logging

- Automated DocumentDB cluster orchestration with infrastructure as code (Terraform) across different environments.
- Locked down access via security groups, permitting connections only from designated application subnets.
- Published audit logs to CloudWatch and set up alerts for anomalous activity, enhancing security compliance visibility.

Skills

Containerization & Orchestration: Docker, Helm, k8s, RKE2, K3s, Rancher

Configurations & IaC: Atlantis, Terraform, Terragrunt, Packer, Ansible, SaltStack

CI/CD: Drone CI, Jenkins CI/CD, Gitlab CI, Argo CD

Operating System: Ubuntu, CentOS, RHEL

Version Control: Git, GitHub, GitLab

Load Balancers: HAProxy, Nginx, Amazon ELB

Logging: Grafana Loki, EFK Stack (Elasticsearch, Fluentd, Kibana), OpenSearch

Monitoring: Prometheus, Grafana Dashboards, PRTG

AWS Tools: EC2, VPC, Subnets, Security Groups, Application Load Balancer, S3, AMI, DocumentDB, CloudWatch

Other: Hoopdev, Harbor, Minio, Cert-Manager, Postgres

Education

FSC

Aspire College

Bachelor's in Computer Science (in progress)

Virtual University