

Habib Qayoom

DevOps / Platform Engineer | Azure & AWS Cloud Infrastructure | Kubernetes (AKS/EKS) | CI/CD

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Summary

DevOps / Platform Engineer with 2+ years of hands-on experience designing, automating, deploying, and maintaining production-grade cloud infrastructure across Azure and AWS. Currently operating production workloads across 4 Azure AKS clusters for an enterprise AI SaaS platform, with strong expertise in Kubernetes (AKS/EKS), Terraform, Docker, CI/CD, and Grafana Cloud observability (Prometheus, Loki, Tempo). Experienced in production incident response, infrastructure automation, secrets management, and cloud cost optimization, having cut Grafana Cloud spend by ~71%. Proficient in Python, Bash, and PowerShell scripting, with a strong understanding of IAM, RBAC, and ISO 27001:2022 compliance. AWS Certified Solutions Architect – Associate.

Certification

AWS Certified Solutions Architect – Associate (SAA-C03) [View Certificate](#)

Skills

Cloud: AWS, Azure

Containers & Orchestration: Kubernetes, AKS, EKS, ECS Fargate, Docker, Helm

Infrastructure as Code & Configuration: Terraform, YAML

CI/CD: Git, GitHub, GitHub Actions, Jenkins, ArgoCD, AWS CodePipeline, AWS CodeDeploy, Vercel CI/CD

Observability: Grafana Cloud, Grafana, Prometheus / PromQL, Loki / LogQL, Tempo, Pyroscope, Grafana Alloy, Application Insights, Alerting, Synthetic Monitoring

Networking & Security: VPC, IAM, RBAC, OIDC / IRSA, NSG, AWS Secrets Manager, Azure Key Vault, Secrets Management, cert-manager

Compliance: ISO 27001:2022

Scripting & Databases: Python, Bash, PowerShell, PostgreSQL, SQL, KQL

Professional Experience

DevOps / Platform Engineer — Implement AI (AIOS Platform)

08/2025 – Present

Techanzy — Lahore, Pakistan (client: Implement AI, London, UK)

- Operate production infrastructure for an enterprise AI SaaS platform across 4 Azure AKS clusters, PostgreSQL, Azure Functions, Key Vault, and Blob Storage.
- Engineered a secure, isolated Kubernetes workload platform for browser automation, using namespace-scoped ServiceAccount authentication, dedicated node-pool isolation via taints/tolerations and node selectors, and automated provisioning/deletion of session Jobs and Ingresses with cert-manager TLS.
- Integrated the AIOS backend with the AKS API using ServiceAccount token authentication and CA certificate validation instead of admin kubeconfig access, with Kubernetes Secrets for secure credential management.
- Supported production deployments and troubleshooting across the AI stack, maintaining CI/CD workflows with staging/production separation, branch protection, and deployment controls.

- Led production incident response, diagnosing and resolving FastAPI/Gunicorn OOMKills, high memory usage, and production latency issues across services.
- Build and maintain 40+ Grafana Cloud dashboards using Prometheus, Loki, Tempo, and Application Insights for production logs, metrics, LLM usage, calls, and billing.
- Built a Python-based Loki-to-Slack alerting pipeline with deduplication, suppression windows, and a manual-review web UI; created 30+ Grafana alert rules routed to Slack and email.
- Cut Grafana Cloud spend by ~71% (from ~\$1,090/mo overage to ~\$316/mo) by analysing root causes of metric growth and applying targeted optimisation strategies.
- Self-hosted and operated the Trieve RAG platform on AKS, including Qdrant, embedding/reranker models, and Keycloak SSO, alongside browser-use AI agents and n8n automation.
- Drove ISO 27001:2022 compliance evidence and remediation activities using Vanta.

DevOps Engineer — Code to Kloud

01/2025 – 08/2025

Lahore, Pakistan

- Provisioned AWS infrastructure with Terraform (VPC, multi-AZ subnets, NAT/IGW, security groups) and EKS clusters (managed node groups, ALB Controller via Helm with IAM OIDC/IRSA, EBS CSI + PV/PVC); enforced namespace-scoped RBAC via the aws-auth ConfigMap.
- Built a CI/CD pipeline for ECS Fargate (ECR SHA-tagged build/push, AWS Secrets Manager, task-definition re-registration, stability gating); centralised logs to Loki via FireLens and deployed EKS workloads with ArgoCD.
- Implemented multi-environment promotion (dev/staging/prod) with branch-based workflows and environment-scoped approvals, ensuring consistent, auditable deployments across environments.

DevOps Intern – Associate DevOps Engineer — Upvave

06/2024 – 12/2024

Lahore, Pakistan

- Architected AWS networking (VPC, multi-AZ subnets, NAT/IGW, security groups) provisioned with Terraform; deployed workloads on EKS and ECS Fargate with GitHub Actions and AWS CodePipeline, including CodeDeploy blue/green pipelines on ECS.
- Deployed an observability stack (Prometheus, Grafana, Loki, Fluent Bit) across EKS/ECS clusters; managed secrets with AWS Secrets Manager and IAM; implemented event-driven automation with AWS Lambda.
- Containerised applications with Docker and automated image build/push to ECR through GitHub Actions, standardising deployment artifacts across services.

Projects

Selected DevOps Projects

Multi-Environment AWS Infrastructure

Terraform-based AWS infrastructure across dev/staging/prod, including modular VPC, IAM, OIDC, and EKS configurations.

AWS ECS CI/CD Pipeline

GitHub Actions pipeline for Docker image build/push to ECR, AWS Secrets Manager integration, ECS task-definition updates, and rolling deployments with stability gating.

Python Alerting Pipeline & Custom Slack Alerts API

Python alerting pipeline with a custom API, hosted on Azure Functions, that sends deduplicated, suppression-windowed alerts directly to Slack channels. Grafana log-based alerts routed to the relevant channels by severity.

Education

Virtual University of Pakistan

BS Information Technology

2023 – 2027