

Ali Akbar Asif

Senior DevOps Engineer

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Lahore, Pakistan

Senior DevOps Engineer with 5+ years of experience engineering resilient, scalable, and cost-efficient cloud infrastructure. Specialized in Kubernetes, infrastructure automation, observability, and CI/CD delivery, enabling teams to ship faster while maintaining high reliability.

Hands-on experience operating high-availability production systems, keeping platforms stable under real-world load and achieving near zero-downtime operations, while improving overall operational efficiency. Backed by an MS in Data Science from FAST Islamabad, I apply a data-driven mindset to optimize AWS, GCP, and hybrid cloud environments.

EXPERIENCE

Senior DevOps Engineer

Tkxel

Dec 2024 - Present

- Took end-to-end ownership of cloud infrastructure, delivering 31% cost reduction through right-sizing and optimization.
- Architected high-availability and disaster recovery (DR) infrastructure for systems handling ~10K RPM, achieving 99.95% uptime.
- Designed and operated production Kubernetes platforms, managing multi-tenant environments and parallel deployments through traffic routing.
- Led the transition from manual releases to continuous delivery using GitOps, enabling predictable and faster sprint-based deployments.
- Implemented predictive and event-driven autoscaling using KEDA to handle sudden traffic spikes and improve system resilience.
- Introduced and managed self-hosted, production-grade services including Redis Sentinel, OpenSearch, and Apache Airflow with custom anomaly detection.
- Established incident management and observability workflows using OpsGenie, New Relic, and centralized logging with Graylog.

Senior DevOps Engineer

Venturennox

Aug 2023 - Dec 2024

- Engineered and optimized AWS cloud infrastructure to ensure high availability, performance, and cost efficiency.
- Owned production Kubernetes environments, ensuring stability, scalability, and smooth application deployments.
- Automated infrastructure provisioning and environment management using Terraform and CI/CD pipelines.
- Built end-to-end observability using Grafana, Prometheus, Loki, Tempo, Pyroscope, and OpenTelemetry.
- Implemented distributed tracing, centralized logging, and continuous profiling to improve system visibility and troubleshooting.
- Managed data orchestration workflows using Apache Airflow for scheduling and monitoring complex pipelines.
- Led troubleshooting and incident resolution for complex infrastructure issues, reducing downtime and operational risk.
- Collaborated with engineering teams to improve deployment reliability, monitoring standards, and operational best practices.

DevOps Engineer

Venturennox

Aug 2020 - Jul 2023

- Automated cloud infrastructure using Terraform and Ansible, enabling consistent and repeatable environment provisioning.
- Built and operated Kubernetes-based platforms using Docker, Kubernetes, and Helm to support containerized applications.
- Designed and maintained CI/CD pipelines using Drone CI with self-hosted runners and secure secret management via Vault.
- Implemented monitoring and alerting using Prometheus and Grafana to improve visibility into system health.
- Managed AWS infrastructure including EC2, Network Load Balancers, and autoscaling for production workloads.
- Configured TLS, ingress routing, and DNS using Cert-Manager and Cloudflare to secure application traffic.
- Supported shared storage solutions using Amazon EFS for scalable and persistent application data.

Cloud Engineer (Intern)

Venturenox

Feb 2020 - Jul 2020

- Containerized microservice-based applications using Docker and Docker Compose.
- Supported Kubernetes deployments by creating manifests and Helm charts for containerized workloads.
- Configured NGINX reverse proxy and Kubernetes Ingress with TLS using Cert-Manager and Cluster Issuers.
- Provisioned and managed GKE infrastructure using Terraform with remote backend state stored in GCS.
- Built foundational experience in Linux, cloud networking, and container orchestration within production-like environments.

PROJECTS

Epilogue (Opus – Enterprise Digital Adoption Platform)

- Designed and operated production-grade, highly available cloud infrastructure, ensuring platform stability for enterprise users.
- Led cost optimization initiatives through infrastructure right-sizing and efficiency improvements.
- Enabled scalable delivery of AI-driven guidance using Kubernetes-based deployments and CI/CD automation.

Testfuse – AI-Driven Personality Insights Platform

- Designed and provisioned AWS infrastructure using Terraform across preview, staging, and production environments.
- Implemented CI/CD pipelines with GitHub Actions and Drone CI for automated and reliable deployments.
- Deployed and managed applications on EKS using Helm charts, ensuring scalability and consistency.

Levy – Workflow & Client Management Platform

- Managed and optimized production AWS infrastructure with a strong focus on high availability and reliability.
- Implemented Kubernetes autoscaling to handle workload fluctuations and improve system resilience.

SKILLS

Cloud & Platform Engineering: AWS, GCP, hybrid cloud architectures, high availability, disaster recovery, cost optimization

Containers & Kubernetes: Kubernetes (EKS, GKE), Docker, Helm, multi-tenant clusters, traffic routing, production operations

Infrastructure as Code & Automation: Terraform, Ansible, GitOps workflows, environment standardization

CI/CD & Release Engineering: GitHub Actions, GitLab CI/CD, Drone CI, Argo CD, GitOps-based continuous delivery, blue-green deployments, secure pipelines

Observability & Reliability Engineering: Prometheus, Grafana, Loki, Tempo, Pyroscope, Faro, Alloy, Oncall, OpenTelemetry, Graylog, Newrelic, Cloudwatch, Alerting, incident readiness, system reliability

Scaling & Performance: Kubernetes autoscaling, Karpenter, KEDA, ELB, Cloud Load Balancing, performance tuning

Security & Compliance: HashiCorp Vault, AWS WAF, Cloudflare Tunnels, CNAPP Orca, Trivy, container and secret security

Scripting & Automation: Bash, Python, YAML

Operating Systems & Environments: Linux, Windows Server, staging and production environments, ephemeral preview environments per GitHub PR

Certification

Certified Kubernetes Administrator

[The Linux Foundation](#)

Expires: July 01, 2027

EDUCATION

MS Data Science

National University of Computer and Emerging Sciences

Aug 2019 - Jul 2021

Software Engineering

COMSATS University, Islamabad

Sept 2014 - Jul 2018