

AKSHAY GHALME

AWS DevOps Engineer | Pune, India | +91 8551900591 | akshayghalme07@gmail.com | LinkedIn | GitHub

PROFESSIONAL SUMMARY

Results-driven **AWS DevOps Engineer** with **3+ years** of hands-on experience designing, automating, and managing production-grade cloud infrastructure for a **multi-tenant SaaS platform serving 1000+ customer subdomains**. Proven track record of **reducing AWS infrastructure costs by ~80%** through architectural optimization. AWS Certified Solutions Architect – Associate (March 2026). Skilled in IaC, CI/CD, container orchestration, GitOps, supply-chain security, and full-stack observability. Built an open-source microservices platform demonstrating end-to-end GitOps, SBOM, chaos engineering, and zero-downtime delivery on EKS.

KEY ACHIEVEMENTS

- **~80% AWS Cost Reduction** — Right-sized instances, migrated gp2→gp3 EBS volumes, implemented Reserved Instance planning, and redesigned traffic routing to eliminate waste.
- **1000+ Subdomain Multi-Tenant Architecture** — Zero public database exposure; least-privilege IAM policies passed all security audits.
- **Zero-Downtime Deployments** — Robust Jenkins CI/CD pipelines with automated rollback, health checks, and zero manual intervention during releases.
- **Full Supply-Chain Security** — Trivy scanning, Cosign image signing, Syft SBOM generation, Checkov IaC scanning, and Kyverno admission policies enforced on EKS.

TECHNICAL SKILLS

- **Cloud & AWS:** EC2, S3, RDS, EKS, ECR, ElastiCache, VPC, IAM, Route 53, CloudFront, ALB, SNS, SQS
- **Containers & Orchestration:** Docker, Kubernetes (K8s), Karpenter, Helm, Kustomize, Docker Compose
- **Infrastructure as Code:** Terraform, Terragrunt, CloudFormation
- **CI/CD & Automation:** GitHub Actions, Jenkins, ArgoCD, Git, Shell Scripting (Bash)
- **Security & Compliance:** Trivy, Checkov, Semgrep, Cosign, Syft (SBOM), Kyverno, OPA
- **Monitoring & Observability:** Prometheus, Grafana, Loki, OpenTelemetry, CloudWatch, Alertmanager
- **Networking:** CIDR, Subnetting, Routing, DNS, Load Balancing, VPC Peering, Network Policies
- **Operating Systems:** Linux (Ubuntu)

WORK EXPERIENCE

DevOps Engineer | BytePhase Technologies Pvt Ltd

August 2022 – Present | Pune, India

- Manage production AWS infrastructure for a **multi-tenant SaaS platform**, ensuring **99.9% uptime** across 1000+ customer subdomains.
- **Reduced AWS costs by ~80%** through instance right-sizing, gp2→gp3 EBS migration, Reserved Instance planning, traffic-pattern analysis, and architecture optimization.
- Designed secure VPC architecture with public/private subnet segmentation; enforced least-privilege IAM policies and eliminated all direct database exposure to the internet.
- Containerized application services using **Docker**, improving deployment consistency, resource efficiency, and environment parity across dev, staging, and production.
- Deployed **Amazon RDS in private subnets** with VPC peering — achieved zero public DB exposure and passed all security audit requirements.
- Built and maintained **Jenkins-based CI/CD pipelines** with automated testing, build triggers, and rollback mechanisms, reducing deployment time and manual intervention.
- Provisioned and maintained cloud infra using **CloudFormation** — repeatable, version-controlled deployments across dev, staging, and production environments.
- Implemented monitoring with **CloudWatch, Prometheus, and Grafana**, reducing MTTD for incidents and improving overall system observability.

PROJECTS

CloudNative Commerce — Microservices E-Commerce Platform | Personal Project

Terraform · AWS EKS · ArgoCD · GitHub Actions · Prometheus · Grafana · Loki · OpenTelemetry · Karpenter · Kyverno · Litmus Chaos

- Architected a **3-microservice platform (Go, Next.js, Python)** on AWS EKS with Terraform modules for VPC, EKS, RDS, ElastiCache, and ECR across 3 AZs.
- Implemented **GitOps delivery with ArgoCD + Kustomize** overlays for dev/staging/prod — zero kubectl-apply deployments with full git audit trail.
- Built CI/CD security pipeline in **GitHub Actions**: Trivy container scanning, Checkov IaC scanning, Semgrep SAST, Cosign image signing, and Syft SBOM generation.
- Deployed full observability stack: **Prometheus SLO burn-rate alerts, Grafana dashboards, Loki centralized logging, and OpenTelemetry distributed tracing.**
- Executed chaos experiments (pod kill, node drain, network partition) with **Litmus Chaos** and k6 load tests; documented findings in game-day reports.
- Enforced cluster security with **Kyverno admission policies** (image signature verification, registry restriction, resource limits) and Kubernetes network policies with default-deny.
- GitHub: github.com/akshayghalme/cloudnative-commerce

Production-Grade AWS Architecture | Personal Project

Terraform · AWS · Docker · Kubernetes · CloudWatch · Route 53 · CloudFront

- Designed and provisioned a **multi-AZ AWS infrastructure** with Terraform — VPC segmentation, private subnets, secure IAM policies, and containerized deployments.
- Deployed RDS in private subnets, simulated DB load scenarios, and validated **failover behaviour under stress.**
- Configured **CloudFront CDN + Route 53 DNS** for global delivery; evaluated cost-performance trade-offs across regions.
- Simulated infrastructure failures (instance termination, SG misconfiguration, resource saturation) and documented **recovery runbooks.**
- Integrated **CloudWatch dashboards + SNS alerting** for proactive incident detection during load and failure simulations.
- GitHub: github.com/akshayghalme/aws-ha-infrastructure-lab

CERTIFICATIONS

AWS Certified Solutions Architect – Associate | Amazon Web Services | March 2026

EDUCATION

Diploma in Information Technology

MIT, Kothrud, Pune, India | Completed: 2022