

Akshay Nazirkar

DevOps Engineer

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Experience Summary

DevOps Engineer with 4+ years of experience architecting, automating, and securing cloud infrastructure across AWS, GCP, and Azure. Strong expertise in IaC (Terraform, CloudFormation), CI/CD pipelines (Jenkins, GitLab, GitHub Actions, Cloud Build), and containerization and orchestration (Docker, Kubernetes, EKS, GKE). Hands-on experience with serverless, database, networking, monitoring, and DevSecOps platforms, including Cloud Run, Cloud SQL, MongoDB Atlas, Prometheus, Grafana, CloudWatch, Splunk, Prisma Cloud, SonarQube, Trivy, and OWASP ZAP. Proficient in Python and Bash scripting for automation, compliance reporting, and operational efficiency, with a focus on scalable, reliable, secure, and cost-optimized cloud-native platforms.

Professional Experience

EDMO, DevOps Engineer

09/2025 - Present | Pune

- Manage and maintain GCP infrastructure across 6+ production, staging, and development projects, provisioning and supporting Cloud Run, Cloud SQL, Cloud Build, Artifact Registry, GKE, Compute Engine, VPC, Cloud NAT, Serverless VPC Access, Load Balancing, Cloud DNS, and Secret Manager.
- Own IAM policies, service accounts, workload identities, and least-privilege access controls for developers, applications, and CI/CD systems across multi-project environments.
- Build and maintain Cloud Build triggers and GitHub Actions workflows across 200+ repositories, including Docker image builds, Artifact Registry management, approval-gated releases, and automated deployments to Cloud Run and GKE.
- Administer MongoDB Atlas and PostgreSQL on Cloud SQL, including database access, IP allowlisting, indexing reviews, schema/table permissions, migrations, private IP connectivity, and Cloud SQL Auth Proxy access.
- Design and maintain private connectivity and secure developer access using VPC networking, Private Service Connect/peering patterns, IAP SSH tunneling, Cloud SQL proxy VMs, and WireGuard VPN.
- Investigate and remediate security incidents, unauthorized cloud usage, networking failures, authentication issues, and CI/CD deployment problems. Strengthen GitHub branch protection and repository access governance.
- Conduct cloud cost optimization and billing audits by right-sizing Cloud Run and Cloud SQL resources, identifying idle/orphaned infrastructure, reviewing logging/networking costs, and coordinating cloud billing escalations.

Nomura, DevOps Engineer

04/2025 - 09/2025 | Pune

- Architected, managed, and optimized AWS infrastructure across 10+ accounts within an AWS Organization, ensuring scalability, reliability, and security.
- Implemented Infrastructure as Code (IaC) using CloudFormation, GitLab CI/CD, Ansible, Packer, Python, and Bash scripting for automated provisioning and configuration.
- Designed and automated compliance monitoring and reporting across all AWS accounts using Python-based crawler architecture.
- Managed AMI lifecycle, including baking golden images, monthly updates, and cost optimization, while coordinating EC2 initialization with Ansible and AWS Systems Manager.
- Strengthened cloud security using SCPs, IAM Permission Boundaries, Organization Policies, VPC Service Controls, following the AWS Well-Architected Framework.
- Integrated AWS environments with Prisma Cloud, Rapid7, and CrowdStrike for enterprise security and compliance enforcement.
- Developed Custom CloudWatch metrics and Grafana dashboards to monitor AMI retirement, EBS snapshots, budget breaches, and compliance KPIs.

- Continuously improved automation, monitoring, and security processes to ensure operational efficiency and risk reduction across cloud environments.

Vsquare Systems Pvt Ltd, DevOps Engineer
11/2024 - 04/2025 | Pune

- Extensive experience in cloud platforms, including AWS (EC2, VPC, Subnets, EBS, RDS, ECS, EKS, CloudFormation, CloudWatch), GCP (Compute Engine, VPC, Subnets, Persistent Disks, Cloud SQL, Cloud Run, GKE, Deployment Manager, Cloud Monitoring), and Azure (VMs, VNet, Subnets, Storage, App Services, Monitor) for scalable, secure, and highly available infrastructure.
- Proficient in DevOps tools and CI/CD pipelines, including Jenkins, Git, GitLab CI/CD, Ansible, Terraform, Docker, Maven, enabling automation, continuous integration, and reliable deployments.
- Hands-on experience in containerization and orchestration using Docker, Kubernetes, EKS, GKE, ensuring consistent and scalable application delivery.
- Managed multi-project cloud environments using GCP Organizations, Folders, AWS Organizations, Azure Management Groups, with centralized governance, IAM policies, and security controls.
- Skilled in cloud security and DevSecOps, implementing CyberArk, Palo Alto, Prisma Cloud, Rapid7, CrowdStrike, and enforcing least-privilege access, compliance, and audit readiness.
- Experienced in automation and scripting using Python, Bash, and YAML for provisioning, monitoring, and reporting.
- Strong background in monitoring and observability using CloudWatch, Prometheus, Grafana, Datadog, Splunk, enabling real-time visibility and performance optimization.
- Agile practitioner, participating in daily stand-ups, sprint planning, Kanban, and retrospectives, driving continuous improvement and faster delivery cycles.

Infosys Limited, DevOps Engineer
01/2022 - 11/2024 | Pune

- Managed AWS infrastructure (EC2, EKS, S3, ECS, IAM, VPC, Route53, CloudWatch) and GCP infrastructure (Compute Engine, GKE, Cloud Storage, IAM, VPC, Cloud DNS, Cloud Monitoring) to deliver secure, scalable, and highly available environments.
- Built and maintained CI/CD pipelines using Jenkins, Git, and Cloud Build, implementing blue-green deployments for zero-downtime releases.
- Automated infrastructure provisioning and configuration using Terraform, Ansible, Python, and Bash scripting for repeatable, efficient deployments.
- Containerized applications with Docker and orchestrated workloads using Kubernetes (EKS/GKE) for efficient deployment, scaling, and reliability.
- Implemented monitoring and observability using Prometheus, Grafana, Datadog, and CloudWatch, optimizing performance and operational insights.
- Strengthened cloud security and DevSecOps practices using Prisma Cloud, SIEM solutions, SonarQube, Snyk, Trivy, and OWASP ZAP, integrating automated security into CI/CD pipelines.

Skills

Cloud and DevOps AWS, GCP, Azure, Linux, Terraform, Ansible, Docker, Kubernetes, EKS, GKE, Cloud Run, Cloud Build, Artifact Registry	Scripting and Programming Python, Bash, YAML	Security and Compliance IAM, AWS Security Hub, Prisma Cloud (CSPM), SAST, DAST, Trivy, OWASP ZAP, SIEM, SonarQube, CyberArk
Version Control and CI/CD Git, GitHub Actions, GitLab CI/CD, Jenkins, Jira, ServiceNow, VS Code	Databases and Networking PostgreSQL, MongoDB Atlas, Redis, VPC, Cloud NAT, IAP, WireGuard VPN	Monitoring and Observability Splunk, Prometheus, Grafana, CloudWatch, Google Cloud Logging

Certificates

- AWS Certified Solutions Architect-Associate
 - Google Cloud Certified Cloud Digital Leader
 - AWS Certified DevOps Engineer Professional
 - Google Cloud Certified Associate Cloud Engineer

Projects

Deployment of Three-Tier E-commerce Application on AWS EKS

Designed and deployed a full-fledged three-tier e-commerce application on AWS EKS, leveraging Kubernetes for scalable and fault-tolerant container orchestration. Containerized application components using Docker and deployed them as Kubernetes Pods, Services, and Ingress for efficient traffic management. Deployed 8 microservices (Node.js with Express, Java with Spring Boot, Python with Flask, Nginx, AngularJS 1.x, Redis) along with 2 databases (MongoDB, MySQL), 1 messaging queue, and 1 in-memory data store. Ensured high availability, scalability, and secure communication between services, providing a production-like environment for a demo e-commerce application.

Infrastructure Automation on AWS using Terraform

Provisioned a complete AWS environment by creating a custom VPC with both public and private subnets. Configured and attached an Internet Gateway to enable external communication for resources in the public subnet. Launched and configured a Linux EC2 instance in the public subnet, ensuring proper routing through route tables. Installed and set up Nginx on the EC2 instance to serve as a web server, validating end-to-end connectivity. Leveraged Terraform for Infrastructure as Code (IaC) to enable repeatable, version-controlled, and scalable infrastructure deployments.

DevSecOps CI/CD Pipeline with Automated Security Scanning

Designed and implemented a secure CI/CD pipeline using Jenkins on AWS, integrating security at every stage of the SDLC. Integrated SonarQube for continuous code quality checks and static application security testing (SAST). Used Trivy for container image vulnerability scanning and enforced compliance in build stages. Applied OWASP best practices and integrated OWASP ZAP for automated dynamic application security testing (DAST) within the pipeline. Delivered a security-first CI/CD process ensuring faster, safer deployments and reducing risk of vulnerabilities in production.

Education

Marathwada Mitra Mandal College of Engineering,
Pune
Bachelor of Engineering

2020

CGPA: 7.55