ANVESH REDDY YERUVA

Senior DevOps Engineer | Multi-Cloud (AWS, Azure, GCP) | Kubernetes | Terraform | CI/CD | Python

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SUMMARY

- Senior DevOps Engineer (7+ years) building and operating production-grade cloud infrastructure and delivery pipelines.
- Strong hands-on AWS experience with Azure and GCP exposure, aligned to modern platform engineering practices.
- Proven expertise in Kubernetes and container-based deployments using Docker, including scalable release and runtime operations.
- Advanced skills in Infrastructure as Code (Terraform) to standardize environments, reduce drift, and speed up provisioning.
- Deep experience designing and improving CI/CD pipelines to enable fast, reliable releases with automated checks and rollback readiness.
- Worked in Agile/Scrum teams, supporting sprint-based releases, change requests, and continuous delivery improvements.
- Solid background in monitoring, logging, and observability, building actionable alerts and improving incident response (MTTR).
- Strong automation mindset using Python/Bash and configuration management with Ansible to reduce manual work and operational toil.
- Experience improving DevSecOps hygiene through IAM best practices, secrets handling patterns, and security checks in pipelines.
- Worked on cloud cost optimization through resource right-sizing, environment cleanup automation, and tagging/ownership practices.
- Collaborative engineering partner with strong production support habits: on-call readiness, runbooks, and post-incident improvements.

PROFESSIONAL EXPERIENCE

Senior DevOps Engineer
Kwalee, Bengaluru, India
Feb 2022 – Jul 2023

- Owned day-to-day reliability of production environments, partnering with engineers to keep deployments stable and predictable.
- Built and improved CI/CD pipelines (GitHub Actions/Jenkins) with clear build stages, promotion gates, and rollback readiness.
- Worked in Agile sprint cycles with engineering teams to deliver scheduled releases, production fixes, and deployment improvements.

- Standardized Infrastructure as Code (Terraform) to provision repeatable environments and reduce configuration drift.
- Supported Kubernetes operations (cluster health, upgrades planning, scaling, workload troubleshooting) and improved deployment consistency.
- Containerized services and improved Docker image build practices (smaller images, versioning, consistent base images).
- Implemented safer deployment patterns (rolling/blue-green where appropriate) and validated rollback procedures during release cycles.
- Strengthened observability using CloudWatch dashboards, alarms, and log-based troubleshooting for faster incident triage.
- Improved alert quality by tuning thresholds and reducing noisy alerts so on-call signals were actionable.
- Automated operational tasks using Python and Bash, reducing manual effort for environment bootstrap, validations, and routine checks.
- Applied Ansible for configuration consistency across hosts, improving repeatability and reducing “works on my machine” issues.
- Worked across AWS, Azure, and GCP to support environment provisioning, access controls, and deployment consistency, aligning infrastructure patterns across teams.
- Improved secrets-handling practices (least exposure, safer injection patterns) and ensured pipeline credentials were managed correctly.
- Collaborated on access control hygiene (IAM least privilege, role separation, periodic access reviews).
- Assisted with database operational support (PostgreSQL/MySQL), including connectivity troubleshooting and backup/restore awareness.
- Documented runbooks and deployment procedures, making it easier for engineers to self-serve and reducing dependency on tribal knowledge.

DevOps Engineer -> Sr. DevOps Engineer
Side Inc, Hyderabad, India
Aug 2016 – Feb 2022

- Built and improved CI/CD pipelines (Jenkins/GitHub Actions) with clear stages, environment promotions, and rollback readiness.
- Supported Linux-based environments for application deployments, troubleshooting, and automation scripts for operational tasks.
- Automated build and release workflows to reduce manual steps, improve repeatability, and increase deployment confidence.
- Designed and supported AWS infrastructure patterns including VPC, subnets, routing, security groups, IAM, load balancing, and autoscaling.
- Provisioned and standardized environments using Infrastructure as Code (Terraform), reducing drift and speeding up onboarding for new services.
- Created reusable Terraform modules and improved state management practices for consistent infra changes across environments.
- Supported containerized deployments using Docker and helped teams adopt Kubernetes-based deployment patterns for microservices.

- Improved Docker image lifecycle practices (tagging/versioning, base image consistency, artifact cleanup) to keep releases reliable.
- Implemented safer deployment strategies (rolling and blue/green where applicable) and validated rollback procedures during release cycles.
- Strengthened observability using AWS CloudWatch dashboards, alarms, and log insights to speed troubleshooting and reduce MTTR.
- Tuned alert thresholds and reduced noisy notifications so on-call alerts were actionable and prioritized correctly.
- Wrote Python/Bash automation scripts for provisioning helpers, deployment tooling, health checks, log collection, and routine maintenance tasks.
- Used Ansible for configuration consistency across hosts and services, reducing manual variance between environments.
- Partnered with developers to troubleshoot pipeline failures, deployment issues, and production performance/reliability problems.
- Supported secure access patterns with IAM least privilege, role separation, and safer credential handling within CI/CD pipelines.
- Improved operational readiness through runbooks, release checklists, and documented standard operating procedures for common incidents.
- Participated in on-call rotations, led incident triage, and drove post-incident actions to prevent repeat outages.
- Assisted with PostgreSQL/MySQL operational support including connectivity troubleshooting, basic performance triage, and backup/restore awareness.
- Contributed to basic cost optimization efforts through tagging/ownership practices, cleanup routines, and rightsizing recommendations.

TECHNICAL SKILLS

CLOUD [MULTI-CLOUD]	AWS (EC2, VPC, S3, IAM, RDS, Lambda, CloudWatch), Azure (VMs, VNets, Storage, Azure DevOps), GCP (Compute Engine, VPC, Cloud Storage, IAM)
CONTAINERS & ORCHESTRATION	Docker, Kubernetes (EKS/AKS/GKE basics), Helm, container image lifecycle, rollout/rollback strategies, autoscaling concepts
INFRASTRUCTURE AS CODE & CONFIGURATION	Terraform (modules, remote state, environment provisioning), Ansible, reusable infrastructure patterns, drift reduction
CI/CD & SOURCE CONTROL	Git, GitHub, GitHub Actions, Jenkins, artifact repositories (Nexus/Artifactory), release workflows, build/test/deploy gates
OBSERVABILITY & OPERATIONS	CloudWatch (metrics/logs/alarms/dashboards), log

	review & troubleshooting, incident triage, runbooks, post-incident improvements
SCRIPTING & AUTOMATION	Python (automation/tooling), Bash, automation scripts for deployment and ops tasks, CLI-based workflow improvements
DATABASES	PostgreSQL, MySQL (basic administration support, backups/restore awareness, query support)
OS / LINUX	Linux administration, shell scripting, system troubleshooting, service management (systemd), permissions & networking basics
SECURITY / DEVSECOPS	IAM least privilege, secrets handling patterns, security checks in pipelines, TLS/SSL basics, HTTPS, DNS, access control hygiene, PKI/cert awareness, secure networking patterns, NIST-aligned security control awareness

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EDUCATION

Master of Science in Computer Information Systems
Christian Brothers University, Memphis, United States Graduated: May 2025

- Focused on Cloud Infrastructure, DevOps practices, and system administration.
- Hands-on work in AWS, automation with Python, and infrastructure fundamentals.

Bachelor of Technology in Electronics and Communications Engineering
ICFAI University, Hyderabad, India Graduated: July 2016

ACADEMIC PROJECTS

Cloud Infrastructure Management with AWS
Environment: AWS (EC2, VPC, ALB, Auto Scaling, S3, RDS, IAM, CloudWatch), Python, Lambda

- Designed and provisioned a multi-tier AWS environment using EC2, RDS, and S3 for a sample web application with high availability in mind.
- Implemented IAM roles and policies to enforce least-privilege access across services and users.
- Configured load balancing and Auto Scaling policies to handle traffic changes and improve resilience.
- Built CloudWatch dashboards and alarms to monitor utilization, error signals, and service health.

- Developed Lambda automation to archive logs and trigger scheduled backups to S3, reducing manual ops tasks.

CI/CD Pipeline Automation for Containerized Application
Environment: GitHub Actions, Docker, Terraform, Bash, Python

- Built an end-to-end CI/CD pipeline to build, version, and publish Docker images with environment-based deployments.
- Implemented gated deployments with approval steps and artifact versioning to improve release control.
- Automated infrastructure provisioning using Terraform to keep dev/stage/prod consistent and reproducible.
- Added basic safety checks (linting, config validation) and failure notifications to improve pipeline reliability.
- Documented release steps and rollback approach to support repeatable deployments.

Kubernetes Deployment & Operations
Environment: Kubernetes, Helm, Docker, CloudWatch, Bash

- Deployed containerized services to Kubernetes using Helm charts with configurable values per environment.
- Implemented rolling updates and validated rollback behavior to reduce deployment risk.
- Configured resource requests and basic autoscaling concepts to support stable runtime behavior.
- Created operational runbooks for common failures (pod restarts, image pull issues, misconfigurations).
- Improved observability with basic metrics review to support faster troubleshooting.

DevOps Delivery Metrics Dashboard
Environment: Power BI, SQL, Excel

- Built dashboards to track delivery and operational signals such as deployment frequency, pipeline duration, failure rates, and environment stability.
- Modeled pipeline and release data in SQL and created calculated measures for trend analysis over time.
- Created interactive views so stakeholders could drill into releases by service, environment, and timeframe.
- Automated refresh and reporting cadence to keep metrics current for planning and improvements.
- Used insights to propose pipeline optimizations and reduce recurring failure patterns.

CERTIFICATION

- Advanced Certificate Program in DevOps, June 2023, IIIT Bangalore