

SAI VENKATA SIVA MUTYALA

DevSecOps Engineer

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GitHub: github.com/msaivenkatasiva | Portfolio: sivacloudlabs.online | 📍 Hyderabad, India

PROFESSIONAL SUMMARY

DevOps Engineer with 5 years of experience spanning cloud infrastructure, CI/CD automation, container orchestration and DevSecOps practices. Started with hands-on automation and Linux systems work, progressively moving into cloud-native engineering on AWS, managing production environments for a leading global bank and a Fortune 5 US healthcare company.

Strong command of Terraform for infrastructure provisioning, Kubernetes and EKS for container workloads, Jenkins and GitHub Actions for pipeline automation, and tools like SonarQube, Trivy and OWASP for security integration. Well-versed in AWS services and comfortable extending those fundamentals to Azure environments, cloud engineering principles translate across platforms.

Experienced working in regulated environments requiring compliance with RBI and HIPAA standards. Proven track record in cost optimisation, incident response, high-availability design and mentoring development teams on DevOps and security practices.

KEY ACHIEVEMENTS & CERTIFICATIONS

- Cut CI/CD pipeline execution from 18 minutes to 4 minutes on banking platform through parallel job structuring, layer caching and Docker multi-stage build optimisation.
- Reduced deployment time from 45 minutes to 12 minutes on healthcare platform through Jenkins shared library adoption serving 10 microservices simultaneously.
- Reduced Docker image size from 850 MB to 180 MB using multi-stage builds and Alpine base images, improved deployment speed and ECR storage costs significantly.
- Blocked 15+ critical security vulnerabilities from reaching production by implementing a shift-left pipeline with SonarQube, Trivy and OWASP as mandatory quality gates.
- Brought mean time to recovery down from 2 hours to 35 minutes on the healthcare platform through Prometheus and Grafana monitoring with proactive alerting.
- Reduced AWS cloud spend by 30% through EC2 right-sizing, spot instances for non-production workloads and VPC endpoint optimisation.
- Sustained 99.9% uptime across production environments through multi-AZ deployments, pod anti-affinity rules and self-healing automation.

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, EKS, RDS, S3, VPC, IAM, ALB, Route53, CloudFront, ACM, SSM, ECR, CloudWatch, GuardDuty) ; Azure (Compute, Networking, Storage, Active Directory, DevOps Pipelines)

Containers and Orchestration: Docker, Kubernetes, Helm, Amazon EKS, IRSA, HPA, Cluster Autoscaler, Blue-Green Deployments

Infrastructure as Code: Terraform (Custom Modules, Remote State, Workspaces, Import), Ansible, Configuration Management

CI/CD and Automation: Jenkins (Shared Libraries, Multibranch Pipelines), GitHub Actions, Azure DevOps Pipelines, Nexus

Security and DevSecOps: SonarQube, Trivy, OWASP, Dependabot, Shift-Left Security, Secret Scanning, SAST, Container Security

Monitoring and Observability: Prometheus, Grafana, CloudWatch, Container Insights, Fluent Bit, AlertManager

Scripting and Languages: Shell Scripting (Primary), PowerShell (Fundamentals), YAML, Groovy (Basics)

Databases: MySQL, Amazon RDS, DynamoDB

WORK EXPERIENCE

Wipro Limited

Senior Associate (DevSecOps Engineer)

Hyderabad, India

Aug 2023 to Present

Project: Banking Digital Transformation Platform

Application: Loan Origination and Processing System i.e, loan, KYC, account management, payment processing, notification and audit modules

Client: Leading global bank, Americas region, Top 5 worldwide

Role: DevSecOps Engineer

Period: Aug 2025 to Present

Tech Stack: AWS, EKS, Terraform, GitHub Actions, Docker, Kubernetes, Helm, SonarQube, Trivy, OWASP, IRSA, SSM, CloudWatch

- Designed and built complete AWS infrastructure from scratch using Terraform, custom VPC modules, EKS cluster, RDS, ALB, CloudFront, ACM and Route53 across three availability zones.
- Set up a six-stage GitHub Actions pipeline with SonarQube, Trivy and OWASP as mandatory security gates, prevented 15+ critical vulnerabilities from reaching production.
- Built reusable GitHub Actions workflow templates shared across all six microservices, reduced new microservice onboarding from two days to two hours.
- Implemented blue-green deployment strategy with automated health-check-triggered rollback, achieved zero-downtime releases for all production deployments.
- Configured IRSA so each microservice pod runs with its own least-privilege IAM role, removed shared credential risks across the platform.
- Reduced AWS cloud spend by 30% through EC2 right-sizing, spot instances for non-production environments, VPC endpoints and S3 lifecycle policies.
- Brought pipeline execution time from 18 minutes down to 4 minutes through parallel jobs, Docker layer caching and multi-stage build improvements.
- Configured HPA and Cluster Autoscaler, pods scaled between 3 and 15 replicas during peak load, sustained 99.9% uptime without manual intervention.
- Followed RBI compliance requirements for all production releases, change-managed deployments executed during approved maintenance windows.

Project: Healthcare Digital Transformation Platform

Application: Patient Management System i.e, patient records, appointment scheduling, claims processing, provider network, medication tracking and lab results modules

Client: Fortune 5 US healthcare company, 150 million+ members

Role: DevOps Engineer

Period: Aug 2023 to Aug 2025

Tech Stack: AWS, EKS, Terraform, Jenkins, Docker, Kubernetes, Ansible, Prometheus, Grafana, CloudWatch, RDS, S3

- Rebuilt Jenkins CI/CD pipelines as a centralised shared library serving all ten microservices, deployment time reduced from 45 minutes to 12 minutes and release frequency doubled.
- Managed and scaled EKS infrastructure using Terraform, environment provisioning time cut from 3 hours to 20 minutes through complete infrastructure-as-code adoption.
- Set up Prometheus and Grafana monitoring with custom dashboards and alerting, brought mean time to recovery down from 2 hours to 35 minutes.
- Containerised and orchestrated ten microservices using Docker and Kubernetes, maintained 99.9% uptime through multi-AZ deployment and pod anti-affinity configuration.
- Used Ansible for configuration management across dev, staging and production, removed manual provisioning inconsistencies across all environments.
- Managed Terraform remote state in S3 with DynamoDB locking, enabled safe concurrent operations and continuous drift detection.
- Reduced pipeline failure rate by 60% through SonarQube quality gates and automated test coverage enforcement.
- Worked alongside development, QA and security teams, guided developers on shift-left security practices and pipeline security adoption.

Infrd

DevOps and Automation Engineer

Bangalore, India

Oct 2021 to July 2023

Tech Stack: Shell Scripting, Python, Linux (Ubuntu/CentOS), Docker, Jenkins, Git, GitHub, AWS (EC2, S3), Cron, Bash

- Automated build and data processing workflows using Shell scripting and Python, reduced manual effort by 40% and improved consistency across environments.
- Administered Linux-based servers (Ubuntu and CentOS), managed process monitoring, log rotation, cron scheduling and system health for continuous operations.
- Containerised internal processing modules using Docker, standardised environment configuration across development and staging, reducing deployment issues.

- Set up Jenkins jobs for scheduled build and deployment automation, removed manual triggers and improved release reliability for internal applications.
- Managed source code and deployment scripts using Git and GitHub, introduced branching conventions and pull request workflows across the team.
- Worked with AWS EC2 and S3 to support cloud-based processing pipelines and storage requirements.
- Coordinated with development and QA teams on environment setup and release processes, helped establish foundational DevOps practices within the engineering group.

Teamlease India

IT Operations and Support Analyst

Deployed at: Financial Services Client

Tech Stack: Linux (Ubuntu), Shell Scripting, Git, ITSM Tools, Service Desk, Windows Server (Basics)

Hyderabad, India

Mar 2021 — Oct 2021

- Provided technical support and system monitoring for IT infrastructure, tracked incidents, logged tickets and coordinated resolution with internal teams.
- Assisted in maintaining Linux-based systems, basic administration tasks including process checks, log monitoring and user access management.
- Supported deployment validation activities during release cycles, verified environment health and documented post-deployment checklists.
- Generated daily operational reports on system uptime, incident count and resolution time, supporting SLA tracking for the IT operations team.
- Worked on shell scripting basics for automating repetitive operational tasks, reducing manual effort in routine system checks.
- Documented standard operating procedures for IT support processes, maintained knowledge base for common incidents and resolutions.

PERSONAL PROJECTS

E-Commerce Microservices Platform github.com/msaivenkatasiva | sivacloudlabs.online

Tech Stack: AWS, EKS, Terraform, Jenkins, Docker, Helm, Prometheus, Grafana, Ansible, IRSA, HPA

- Designed and deployed a 12-microservice e-commerce platform on AWS EKS using Terraform with reusable VPC modules.
- Configured IRSA, pod anti-affinity, taints, tolerations, HPA and Cluster Autoscaler, production-grade security and auto-scaling from 3 to 20 pods.
- Built a centralised Jenkins shared library for Node.js, Java and Python services, cut new service onboarding from 2 days to 30 minutes.
- Reduced Docker image size from 850 MB to 180 MB through multi-stage builds and Alpine base images, improved deployment speed by 60% and lowered ECR storage costs.

3-Tier DevSecOps Infrastructure github.com/msaivenkatasiva | sivacloudlabs.online

Tech Stack: AWS, EKS, Terraform, GitHub Actions, SonarQube, Trivy, OWASP, Docker, Kubernetes, Helm, SSM, CloudWatch

- Built a complete DevSecOps pipeline using GitHub Actions with unit tests, code quality analysis, container scanning and dependency checks, zero critical issues escaped to production.
- Provisioned full AWS infrastructure through Terraform, VPC, EKS, RDS, ALB, CloudFront, ACM, Route53 and SSM, production-ready environment in under 30 minutes.
- Achieved 35% reduction in AWS monthly spend through right-sizing, spot instance adoption and data transfer optimisations, saving approximately Rs 1.2L per month.
- Integrated External Secrets Operator with AWS SSM Parameter Store, enforced zero-secrets-in-code policy across the entire stack.

EDUCATION

Bachelor of Technology (B.Tech)

QIS College of Engineering and Technology

CGPA: 7.0

2016 to 2020