
SIVAKAVI SHANMUGAM | DEVOPS/SRE/CLOUD ENGINEER

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PROFESSIONAL SUMMARY

AWS Certified Solutions Architect – Associate and DevOps Engineer with 4+ years of IT experience, including 2+ years in DevOps/DevSecOps/SRE. Adept at designing, automating, and securing cloud infrastructure, CI/CD pipelines, and monitoring systems. Strong expertise in AWS, Kubernetes, Terraform, Ansible, CI/CD, and security tools. Proven track record in migrating, deploying, and maintaining scalable applications while improving reliability and security. Passionate about automation, cloud security, and infrastructure optimization to drive business efficiency.

SKILLS & TECHNOLOGIES

Cloud & Infrastructure

- Amazon Web Services (AWS) – EC2, EKS, Route 53, S3, CloudFront, Lambda, VPC, WAF, ECR
- Cloud Networking – VPC, Security Groups, Load Balancers, NAT Gateway

Infrastructure as Code (IaC) & Automation

- Terraform, Ansible, AWS CloudFormation, Bash, Python, Groovy
- Wrote 30+ Groovy scripts integrating Ansible for automation and deployment tasks

CI/CD & Version Control

- Jenkins, GitHub Actions, Git, SonarQube, Nexus
- Implemented CI/CD pipelines reducing deployment time by 40%

Security & Compliance

- AWS Macie, IAM, Teleport SSO, Role-based Access Control (RBAC)
- Migrated 25+ internal applications to Teleport SSO improving security

Monitoring & Logging

- Datadog, Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)
- Optimized monitoring/logging systems, reducing incident response times

Containers & Orchestration

- Kubernetes (EKS), Helm, Docker, ArgoCD
- Troubleshooting and optimizing Kubernetes-based deployments

Messaging & Databases

- Kafka, RabbitMQ, MongoDB, Redis, Elasticsearch, OpenSearch, HAProxy

Operating Systems & Linux Expertise

- Strong Linux system administration skills, including shell scripting, process management, security hardening, and troubleshooting.
 - Experience in performance tuning, kernel optimization, package management, and automation in Linux environments.
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PROFESSIONAL EXPERIENCE

Poshmark Private Limited

DevOps Engineer | Oct, 2023 – Present | Chennai, India | Hybrid

- Designed and automated cloud infrastructure using Terraform and Ansible, reducing manual provisioning by 60%.
- Managed CI/CD pipelines with Jenkins and GitHub Actions, reducing deployment errors by 40%.
- Migrated 25+ internal applications behind Teleport SSO, improving security and access control.
- Designed and deployed a new infrastructure integrating Redis and Microservice-based EC2 instances, facilitating seamless application deployment for the data engineering pipeline to enhance feed optimisation project.
- Successfully upgraded Teleport agent from non-prod to prod across 1,500+ servers by leveraging a Jenkins pipeline integrated with Ansible, and developed an automated validation framework to ensure seamless deployment and compliance.
- Integrated AWS Macie to detect PII data, automating alerts and JIRA ticket creation for security compliance.
- Serving as the Subject Matter Expert (SME) for managing the Druid data pipeline for the data team, implementing enhanced monitoring with Datadog and streamlining automated deployments using Terraform, Ansible, and Jenkins to drive efficiency and reliability.
- Debugged and managed Kubernetes-based deployments in EKS using ArgoCD, resolving pod-related issues efficiently.
- Developed automated scripts for infrastructure provisioning, application deployment, and security enforcement.
- Managed Linux-based cloud environments, ensuring security hardening, resource optimisation, and automation.
- Successfully upgraded Grafana in the production environment using a rolling deployment strategy, ensuring zero downtime and uninterrupted monitoring services.

Tata Consultancy Services (TCS)

Associate System Engineer | May 2021 – June 2023 | Chennai, India

- Performed Oracle Database Administration, including upgrades, patching, backup & recovery, performance monitoring, and tuning.
- Managed database security and production support, ensuring high availability and data integrity.
- Implemented AWS DMS support for database migration and modernization.
- Restored databases using snapshots and secured credentials with AWS Secrets Manager.
- Created comprehensive documentation for database procedures, best practices, and troubleshooting guides.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
 - DevOps Beginners to Advanced | Decoding DevOps with Projects - Udemy
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PROJECTS & ACHIEVEMENTS

Migrated 25+ Applications to Teleport SSO

- Led the migration of internal applications to Teleport SSO, enhancing authentication and security.
- Implemented RBAC policies to ensure secure access control across environments.

Built a Scalable Dev Environment from Scratch

- Architected a development infrastructure using Terraform, Ansible, Jenkins, Docker, AWS.
- Reduced provisioning time by 50% through automation.

Implemented AWS Macie for PII Data Detection

- Automated alerting and JIRA ticket creation for security compliance.
- Improved data security posture across logging pipelines.

Optimized CI/CD Pipelines

- Designed and deployed Jenkins pipelines integrating SonarQube, Nexus, and security checks.
- Reduced deployment time from 1 hour to 25 minutes.

Designed and Deployed New Infrastructure for Data Engineering

- Developed a new infrastructure integrating Redis and Microservice-based EC2 instances.
- Enabled seamless application deployment to support feed optimization projection.

Upgraded Grafana with Zero Downtime

- Successfully upgraded Grafana in the production environment using a rolling deployment strategy.
- Ensured zero downtime and uninterrupted monitoring services.

Upgraded Teleport Agent Across 1,500+ Servers

- Led the upgrade of Teleport agent from non-prod to prod across 1,500+ servers.
- Utilized a Jenkins pipeline integrated with Ansible, automating validation for a seamless deployment process.

EDUCATION

2018 - 2021 | Vel Tech Multi Tech Dr Rangarajan Dr Sakunthala Engineering College

Bachelor of Engineering - Electronics Communication Engineering (ECE)

2017 - 2018 | St Thomas Matriculation Higher Secondary School

Higher Secondary School - 12th

ADDITIONAL INFORMATION

- Open to DevOps, Cloud Engineering, and SRE roles.
 - Passionate about automation, security, and cloud-native technologies.
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