

Darshan Gohel

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Location: Ahmedabad, Gujarat

Experience

DevOps Engineer

Dec. 2023 – Present

Crest Data

Ahmedabad, Gujarat

- Served as a Platform Engineer in a **client-facing role**, integrated with the client's team to manage and support production and non-production infrastructure, ensuring high availability and developer efficiency.
- Designed, deployed, and managed scalable **Infrastructure as Code (IaC)** solutions using **Terraform** and **Terragrunt** for **AWS**
- Built and maintained robust CI/CD pipelines with **Jenkins, GitLab CI** and **GitHub Actions**, enabling seamless infrastructure provisioning and application deployments
- Deployed and managed containerized applications and microservices using **Docker, Kubernetes, and Argo CD**
- Reduced application deployment failures by **20%** through improved pipeline automation and validation
- Acted as the primary Platform Engineer for maintaining **on-premises infrastructure**, ensuring high availability and performance across environments
- Diagnosed and resolved complex **network connectivity, DNS, and hardware issues** (e.g. KVM issues, oversubscribed hypervisors, failing drives), maintaining system reliability and uptime
- Supported and maintained **Kubernetes clusters**, troubleshooting issues related to **OpenStack Cinder CSI driver, CNI plugins, and node failures**
- Configured and debugged **on-prem load balancers** using **IPVS, Keepalived, and HAProxy**, resolving frequent configuration and routing issues to ensure consistent traffic flow

Technologies

OS: Linux, Windows

Programming/Scripting Languages: Python, C++, Bash

Cloud Platforms: AWS, Azure, Openstack

CI/CD: GitHub Actions, GitLab CI, Jenkins, Argo CD

Configuration Management & IaC: Terraform, Terragrunt, Ansible, SaltStack

Container Orchestration: Docker, Kubernetes

Monitoring: Prometheus, Grafana, EFK stack

Projects

DevOps Generic Framework for AWS

Automating Infrastructure management and Application Deployment

- Designed and implemented a reusable DevOps framework to automate the complete lifecycle of environment provisioning and application deployment across **GitLab CI, GitHub Actions, and Jenkins**
- Built infrastructure pipelines to **create, update, and destroy** full environments, supporting rapid and consistent provisioning using **Infrastructure as Code**
- Developed **Python scripts** to optimize a CI pipeline by triggering Terraform only for modified environments and resources. Implemented logic to retrieve previous commit code to enable targeted terragrunt destroy operations.
- Developed a standalone **Security Pipeline** using open-source tools including **Trivy, SonarQube, and Trufflehog** to scan Terraform and application code for vulnerabilities; integrated **AWS Config** to generate infrastructure vulnerability reports
- Automated application deployment using **Argo CD**, triggering deployment workflows post-infrastructure provisioning for seamless environment readiness
- Leveraged **AWS Load Balancer Controller** to dynamically provision **Application Load Balancers (ALBs)** for Kubernetes ingresses
- Reduced application deployment failures by **20%** through improved pipeline automation and validation
- Implemented **mutual TLS (mTLS)** for secure communication between tenant and master stacks, leveraging **Application Load Balancers** with custom **truststores** for identity verification and encrypted traffic
- Integrated **Kube-Prometheus** stack for cluster monitoring and **Trivy** for vulnerability scanning, both deployed and managed via Argo CD to ensure GitOps compliance

Education

Dhirubhai Ambani Institute of Information and Communication Technology – DA-IICT

2020 – 2024

B.Tech Information and Communication Technology

Gandhinagar, Ahmedabad

Certifications

SAA-C03: AWS Certified Solutions Architect – Associate