SREEHARINATH PEETLA

DevOps Engineer

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PROFESSIONAL SUMMARY

DevOps Engineer with 4+ years of hands-on experience in CI/CD pipeline automation, Kubernetes and Red Hat OpenShift (RHOCP) cluster management, and infrastructure provisioning across multi-environment promotion workflows (DIT → SIT → QA → UAT → Stage → PROD). Skilled in building Jenkins and GitHub Actions pipelines with integrated security scanning (Snyk, SonarQube), secrets management using HashiCorp Vault, deploying containerized applications on vanilla Kubernetes (EKS) and OpenShift 4.x, and managing infrastructure using Terraform and Ansible. Proven track record of reducing incident downtime by 70%, preventing 10+ production outages, and cutting infrastructure costs by 30% in enterprise banking and media domains.

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, EKS, S3, Lambda, IAM, CloudWatch, VPC)
Containers & Orchestration: Docker, Kubernetes (Vanilla / EKS), Red Hat OpenShift (RHOCP 4.x), Helm
CI/CD & Artifact Management: Jenkins (Declarative & Scripted), GitHub Actions, JFrog Artifactory, SonarQube
Infrastructure as Code: Terraform (Modules, State Management), Ansible (Playbooks, Roles)
Security & Code Quality: Snyk (Container & Dependency Scanning), SonarQube (Quality Gates, Static Analysis), HashiCorp Vault (Secrets Management)
Monitoring & Observability: Grafana, Prometheus, Kibana
Scripting & OS: Shell Scripting (Bash), Linux (RHEL, Ubuntu)
Version Control & Collaboration: Git, GitHub, Confluence, Jira

PROFESSIONAL EXPERIENCE

System Engineer (DevOps) | **Tata Consultancy Services (TCS)** *Mar 2022 – Present*

CIBC GOW – Canadian Imperial Bank of Commerce | DevOps Engineer *May 2024 – Present*

Technologies: RHOCP 4.x, Jenkins, GitHub Actions, JFrog Artifactory, Snyk, HashiCorp Vault, Helm, Terraform, Ansible, Grafana, Prometheus, Kibana, Confluence

- Built and maintained end-to-end CI/CD pipelines using Jenkins (Declarative Pipelines) and GitHub Actions, integrating SonarQube for quality gates, JFrog Artifactory for artifact versioning, and Helm charts for templated Kubernetes and OpenShift releases
- Managed application deployments on Red Hat OpenShift (RHOCP 4.x) clusters across Dev, QA, UAT, Stage, and PROD environments, handling OpenShift-specific resources including Routes, DeploymentConfigs, BuildConfigs, ImageStreams, and OpenShift Templates
- Implemented environment promotion workflows with separate Helm values files per stage (values-dev.yaml, values-qa.yaml, values-uat.yaml, values-stage.yaml, values-prod.yaml), ensuring consistent configuration management and HashiCorp Vault-integrated secrets segregation across all environments
- Configured GitHub Actions workflows for automated PR validation, multi-stage container image builds with Snyk vulnerability scanning for container images and open-source dependencies, and gated deployment approvals using environment protection rules for Stage and PROD promotions
- Managed OpenShift projects and namespaces on RHOCP 4.x, configured RBAC role bindings, service accounts, network policies, and resource quotas to enforce least-privilege access and project isolation across development teams; integrated HashiCorp Vault for dynamic secrets injection into OpenShift workloads
- Set up Grafana dashboards backed by Prometheus metrics and Kibana log analytics for real-time cluster and application-level observability across all environments, reducing mean time to detection (MTTD) by 40%
- Automated infrastructure provisioning across Dev/QA/UAT/Stage/PROD using Terraform modules with remote state management (S3 backend) and Ansible playbooks with environment-specific inventories, reducing environment setup time by 75%
- Maintained Helm chart versioning, release rollback strategies, and image promotion pipelines across JFrog Artifactory registries, promoting validated images from lower environments (Dev/QA) through UAT/Stage to Production
- Managed Git branching strategies (GitFlow) with feature, release, and hotfix branches, conducted pull request reviews, and coordinated merge workflows for 15+ developers; authored runbooks and deployment documentation in Confluence

Tata Play – DTH Media Platform | DevOps Engineer *Mar 2022 – Apr 2024*

Technologies: AWS (EC2, EKS, S3, Lambda), Kubernetes (Vanilla / EKS), Jenkins, Nexus, SonarQube, HashiCorp Vault, Ansible, Terraform, Grafana, Kibana

- Managed vanilla Kubernetes clusters on AWS EKS and self-managed EC2-based clusters, handling node group scaling, cluster version upgrades, namespace management, ConfigMaps, Secrets, and persistent volume provisioning (EBS/EFS) for stateful workloads
- Built and maintained Jenkins CI/CD pipelines integrated with Nexus Repository and SonarQube, automating build, test, scan, artifact publish, and deployment stages across Dev, QA, UAT, Stage, and Production for 10+ microservices
- Implemented multi-environment deployment strategy with dedicated Kubernetes namespaces per stage, environment-specific ConfigMaps and Secrets, and Jenkins parameterized builds for controlled promotion from Dev through QA, UAT, Stage, and Hotfix to Production
- Achieved 99.5% uptime SLA and reduced AWS infrastructure costs by 30% through just-in-time provisioning using Kubernetes CronJobs and scheduled EC2 start/stop automation via Lambda for non-production environments (Dev, QA, UAT)
- Set up proactive monitoring using Grafana dashboards and Kibana log aggregation across all environments, implementing batch alerting workflows that prevented 10+ potential production outages
- Reduced incident downtime by 70% through structured root cause analysis, automated alerting scripts, and documented remediation playbooks with clear escalation paths
- Configured Horizontal Pod Autoscaler (HPA) and Cluster Autoscaler for dynamic Kubernetes scaling based on real-time CPU and memory metrics, reducing over-provisioning costs by 35% in Production and Stage environments
- Automated routine operations including server provisioning, log rotation, certificate renewal, and health checks using Shell scripts and Ansible playbooks, reducing manual operational workload by 60%
- Managed SSH keys, IAM policies, security groups, Kubernetes service account permissions, and HashiCorp Vault policies across all environments, enforcing least-privilege access and centralized secrets management across CI/CD pipelines and cluster resources

KEY ACHIEVEMENTS

- DEV → SIT → QA → UAT → Stage → PROD Managed both Red Hat OpenShift (RHOCP 4.x) and vanilla Kubernetes (EKS) clusters in production, handling OpenShift-specific resources (Routes, BuildConfigs, ImageStreams) alongside standard Kubernetes workloads
- Automated end-to-end environment provisioning and application deployment across multi-stage pipelines (Dev through PROD), reducing manual operational workload by 60% and eliminating configuration drift through Ansible, Terraform, and HashiCorp Vault
- Established environment promotion and image promotion pipelines across JFrog Artifactory registries with HashiCorp Vault-integrated secrets management, enabling traceable artifact lineage from Dev through Stage to Production deployments
- Reduced mean time to detection (MTTD) by 40% and mean time to recovery (MTTR) by 70% through Grafana/Prometheus alerting, automated remediation scripts, and structured incident response runbooks

EDUCATION

B.Tech in Electrical and Electronics Engineering *2020*

Anantha Lakshmi Institute of Technology and Sciences, Anantapur | Aggregate: 65%

LANGUAGES

English | Telugu