

SIRAM HARIKRISHNA

DevOps Engineer

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Objective:

DevOps Engineer with 2.6 years of experience in managing cloud infrastructure, automation, and developing CI/CD pipelines. Proficient in AWS, Linux, Docker, Kubernetes, Jenkins, Ansible, and Terraform. Experienced in designing and deploying scalable, reliable infrastructure solutions and optimizing deployment workflows to enhance continuous integration and continuous deployment (CI/CD) processes.

SUMMARY:

- Around 2.6 Years of experience working in the DevOps area, working with various CI/CD implementations involving different phases from code compilation to deployment, environment management, and maintenance.
- Good experience with Linux operating system.
- Hand-on experience on Infrastructure as a code (IAAC) Terraform.
- Automated infrastructure deployment by using Jenkins pipeline.
- Worked on a CI/CD Jenkins for automating the entire application deployment life cycle process.
- Good knowledge on Python programming.
- Good knowledge on MySQL.
- Good experience of storing artifacts in S3 buckets by enabling versioning and enabling S3 Bucket Cross Region Replication.
- Worked on Dockers like managing containers, and images, and establishing the communication between the containers.
- Knowledge on working with docker Swarm and Stack.

- Good Experience of configuration management tool Ansible.
- Configured Kubernetes resources such as Pods, Deployments, Services.
- Implemented Kubernetes best practices for container orchestration, including auto-scaling, and load balancing, resulting in improved application reliability and performance.
- Automated repetitive tasks and manual interventions using scripting languages Python.
- Implemented monitoring solutions using Prometheus and Grafana to track system performance, collect metrics, and visualize data for effective decision-making.
- Implemented Argo CD for GitOps-based continuous delivery, automating application deployment and ensuring consistency across multiple environments.
- Hands-on experience in Working on AWS cloud services IAM, VPC, EC2, S3, Elastic Block Storage, Elastic Load Balancer and Auto Scaling Group.

EDUCATION:

- Bachelor's in MECHANICAL Engineering at Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Telangana (2017 to 2021).

PROFESSIONAL EXPERIENCE:

- Working in **Tata Consultancy Services, Hyderabad** from 24th February, 2022 to till date.

PROJECTS:

Project # 1:

Tools:-

Version control system	GitHub
Integration	Jenkins
Build Tool	Maven
Configuration management	Ansible

Infrastructure as a Code	Terraform
Application server	Tomcat
Cloud Environment	AWS
Artifactory	S3

Responsibilities –

- Deploying end product in tomcat web server.
- Integrated many tools with Jenkins like Git, Maven, Ansible, and Tomcat.
- Worked on Jenkins by installing, configuring, and maintaining continuous integration (CI) and End-to-End automation for all builds and deployments
- Configured many scheduled projects so that they can run frequently without the manual trigger.
- Configuring pre and post-build actions in Jenkins as per project requirements
- Deploying artifacts like JAR, and WAR, into application servers Apache Tomcat and storing it on Artifactories.
- Making configuration changes on Servers using Ansible.
- Writing Playbooks for automating the daily tasks with Ansible Roles.
- Pulling the Artifacts from the Nexux and deploying them to the Tomcat server through the Ansible Playbooks.
- Maintaining Confluence pages for the Documentation for Daily tasks.
- Creating servers, AMIs, and storage blocks in S3 taking snapshots, VPCs, subnets, load balancing, and Auto-scaling in AWS.
- Administering users, groups, and roles & setting up policies by using IAM and also Creation of VPCs, S3 buckets, and EC2 Instances automating them through Terraform.
- Manage and configure AWS services as per the business needs (ELB, EC2, S3, IAM, and VPC).

Project # 2:

Tools:-

Version control system	GitHub
Integration	Jenkins
Containerization tool	Docker
Container Orchestration	Kubernetes
Cluster Management Tool	KOps
Cloud Environment	AWS
Registry	DockerHub
Ticketing tool	Jira

Responsibilities:

- Created Docker files based on Developer Requirements.
- Stored the custom images on Docker Registry.
- Having Good Knowledge on Docker Swarm.
- Hands on knowledge on Container networking part.
- Created a Kubernetes Cluster with kops automation.
- Good knowledge on Kubernetes Cluster and Architecture and essentials.
- Having a good knowledge about deployment strategies in Kubernetes and understanding them.
- Exposed the application in Kubernetes by using services in Kubernetes.
- Good knowledge on working Kubernetes Namespaces and implementing them.
- Automated the deployment process with writing manifest files and executing them.
- Implemented Argo CD for GitOps-based continuous delivery, automating application deployment.
- Administering users, groups, and roles & setting up policies by using IAM and also Creation of VPCs, S3 buckets, and Ec2 Instances automating them through Terraform.

- Manage and configure AWS services as per the business needs (ELB, EC2, S3, IAM, and VPC).

Personal Details:

Date of Birth	:	17-08-1999
Nationality	:	Indian
Languages Known	:	English, Telugu, Hindi.