HARISH NETULA

Email: harishnetula1999@gmail.com | Mobile: (+91): 9573096405 | Current Location: Hyderabad, Telangana
Company: INFOSYS Pvt Ltd.| Designation: Senior Systems Engineer | Years of Experience: 3.1 Years

Summary   LinkedIn Profile

- Experienced DevOps Engineer skilled in managing deployments, CICD pipelines, and incident resolution, proficient in GIT, Jenkins, Docker, AWS, Kubernetes, and monitoring tools, with a focus on implementing DevOps best practices for streamlined operations.

Career History

- Working as a Senior Systems Engineer in Infosys Limited – Hyderabad, India (Mar 2023 - Till date)
- Worked as a Systems Engineer in Infosys Limited – Hyderabad, India (Jun 2021 to Mar 2023)

Senior Systems Engineer – Infosys Limited – Hyderabad, India   June 2021 –Till date

Project: BROADCOM CA Technologies – PaySec

Key Deliverables:

- As DevOps Engineer extensively involved in release management, Environment Management, deployments, Continuous integration, Continuous deployment, Incident management, Version management.
- managed and maintained Kubernetes clusters on AWS using EKS, implementing high availability and scalability. I have integrated AWS services such as IAM for RBAC, S3 for storage, and CloudWatch for monitoring and logging to ensure secure and efficient cluster operations.
- Utilizing Terraform to define, provision, and manage infrastructure across multiple cloud providers, ensuring reproducibility and scalability of environments.
- Implemented blue-green deployment strategies using Terraform to minimize downtime and mitigate risks during application updates involves setting up and managing two identical production environments
- Created Docker images using a Docker file, worked on Docker container snapshots, removing images and managing Docker volumes.
- Managed Kubernetes and Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of build packages.
- Responsible for building/deploying consistently repeatable build/deployments to company production and non - production environments using Jenkins.
- Excellent in Setting up monitoring tools like UIM (Unified Infrastructure Management) and Amazon Cloud watch to monitor major metrics like Network packets, CPU utilization, Load Balancer Latency.
- Providing logs/files from Nodes where the current Pods are running.
- Providing certificate/configuration files from PODS.
- Upscale/downscale the pods in number as per the requirement.
- configured and managed liveness probes to ensure pods are responsive and operational, actively monitoring the health status of both pods and nodes in the Kubernetes environment
- Specialized diagnostic tools like kubectl, container logs, and monitoring solutions such as Prometheus and Grafana to identify and resolve pod failures, performance bottlenecks, and network connectivity issues, ensuring high availability and optimal performance of containerized applications.
- Developed Terraform modules to define and deploy infrastructure components such as EC2 instances, VPCs, subnets, security groups, and IAM roles

DevOps Practices:

- Experienced in Branching, Merging, Tagging and maintaining the version across the environments GIT on Linux platforms.
- Configured and maintained Jenkins to implement the CI process and integrated the tool with Maven to schedule the builds.
- Worked on installing of Docker, creating Docker images using a Dockerfile.
- Expertly managed the creation and administration of namespaces within container orchestration platforms (e.g., Kubernetes), facilitating organized and efficient resource allocation for development teams.
- Integrated Python scripts with monitoring tools (e.g., Prometheus) to collect system metrics, analyze log data, and trigger alerts based on predefined thresholds, facilitating proactive incident response and performance optimization.

- Establishing communication between Ansible master and slave machines. Performing SSH connectivity.
- Writing Playbooks for configuration management.
- Making Jenkins file for automating the Jenkins pipeline process.
- Integrated Python scripts with CI/CD pipelines with Jenkins to automate build, test, and deployment processes, enabling faster delivery of software updates and enhancements.
- Creating the replicas, Pods, service for deployment of cluster in Kubernetes.
- Skilled in containerization technologies such as Docker and container orchestration platforms including Amazon EC2 Container Service (ECS) and Kubernetes, ensuring efficient management and scalability of application workloads.
- Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
- Experience with container-based deployments using Docker, working with Docker images and Kubernetes.
- Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker on AWS.
- Managed local deployments in Kubernetes, creating local cluster and deploying application containers.

Certifications

- **AWS CERTIFIED CLOUD PRACTITIONER**   **| Amazon Web Services Training and Certification | Dec – 2023**
- **AWS CERTIFIED SOLUTIONS ARCHITECT – ASSOCIATE.**
- **DOCKER CERTIFIED ASSOCIATE**
- **CKA - CERTIFIED KUBERNETES ADMINISTRATOR**

Technology Skillset

Skillset Area	Tools/Platforms	Key Competencies Skills
Hardware / Platforms	UNIX, Linux, Windows platforms	AWS (Amazon Web Services), OpenShift
Cloud Platforms	AWS, OpenShift	
CI & CD and Code Coverage Tools	Jenkins, CodeCommit, CodeBuild, CodeDeploy	Continuous Integration (CI), Continuous Deployment (CD), GitOps.
Build Management Tools	Maven	
Artifactory Storage Tools	Nexus Artifactory, S3	
Configuration Management Tools	Ansible, Python Scripting	Infrastructure as Code (IaC), Terraform
Version Control Systems Tools	GitHub, Bitbucket	GitFlow
Monitoring Tools and Logging	Prometheus, Grafana	CloudWatch, ELK Stack (Elasticsearch, Logstash, Kibana)
Containerization & Orchestration	Docker, Kubernetes, EKS (Elastic Kubernetes Service)	Helm
Application Servers	Apache Tomcat	
Databases	MySQL, PostgreSQL	Amazon RDS (Relational Database Service)
Applications/Tools	JIRA, ServiceNow, Splunk, PuTTY	Slack, Microsoft Teams, Agile methodologies (Scrum, Kanban), ITIL

Declaration

I hereby, declare that the above information is true to the best of my knowledge and belief.

(Harish Netula)