BALAJI MUTYABOYINA DevOps Engineer

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Profile Summary

DevOps Engineer with 4 years of experience building scalable, secure, and automated infrastructure. Strong expertise in cloud platform AWS, CI/CD pipeline design, containerization with Docker, and Infrastructure as Code using Terraform and Ansible. Known for streamlining deployments and fostering collaboration between development and operations teams to accelerate product delivery cycles.

Skills

Tools & Technologies:

- Version Control (SCM Tools)   : Git, GitHub
- Build tool   : Maven
- CI/CD Tools   : Jenkins
- Containerization   : Docker
- Infrastructure As Code(IAC)   : Terraform
- Configuration Management   : Ansible
- Monitoring & Logging   : Prometheus & Grafana
- Operation Systems   : Windows & Linux
- AWS   : EC2, Webserver, Elastic Load Balancer, Autoscaling, VPC, S3, IAM, Cloud-Watch, SNS

Work Experience:

Company   : Tech Mahindra LMT

Role   : DevOps Engineer
Project   : Wells Fargo (2021/12 – Present)

Description:

- Designed, implemented, and maintained CI/CD pipelines using Jenkins, enabling efficient and automated code compilation, testing, and deployment processes.
- Managed Jenkins jobs for end-to-end application deployment, ensuring seamless integration and delivery of code changes.
- Created the Docker files based on the code and built the docker files to create custom images.
- Compressing the docker images by using multi stage docker files and pushing those images into Docker Hub. Scanning the image by using the tool called Trivy.
- Deployed and managed containerized applications using Kubernetes clusters.
- Managed Kubernetes workloads and configured essential components, including Deployments, Ingress, PV, and PVC, to support application scalability and reliability.
- Creating Namespaces to isolate the services and environments of our applications.
- Implemented monitoring solutions using Prometheus and Grafana, tracking system performance, collecting metrics, and visualizing data for effective decision-making.
- Collaborated with development and operations teams to streamline release cycles, improve deployment processes, and ensure smooth operation of the software development lifecycle.
- Deployed and managed AWS cloud infrastructure, leveraging services such as EC2, S3, VPC, Elastic Load Balancer & Autoscaling groups using Terraform based on Business needs.
- Automated infrastructure provisioning using Terraform, ensuring consistent, repeatable, and scalable deployments across multiple environments.
- Automated repetitive tasks and manual interventions using scripting languages and configuration management tools, enhancing operational efficiency and reducing human error.

Rules and Responsibilities:

- Automating cloud infrastructure, CI/CD pipelines, and deployment processes. Proficient in using AWS services, Docker, terraform to optimize and scale cloud environments.
- Having a good experience working in the DevOps area, working with various CI/CD implementations involving different phases from code compilation to deployment, Environment management, and maintenance.
- Solid experience with Linux (Ubuntu and RedHat) operating systems
- Hands-on experience with Git for version control and GitHub for collaborative development, including managing repositories, branching, merging, and resolving conflicts.
- Proficient in using Git to streamline code collaboration, track changes, and ensure seamless integration in CI/CD pipelines.
- Experience in setting up and managing CI/CD pipelines with Jenkins to automate build, test, and infrastructure deployment processes.
- Experienced in managing user access and customizing permissions in Jenkins, including creating users, restricting job permissions, and granting access to specific jobs based on roles.
- Worked on Docker like managing containers, and images, and establishing the communication between the containers. Knowledge on working with docker Swarm and Stack.
- Hands-on experience with Ansible for automating infrastructure management, including creating and managing Ansible playbooks to streamline configuration and deployment processes.
- Hands-on experience in implementing Infrastructure as Code (IaC) using Terraform to automate the provisioning, management, and scaling of cloud infrastructure on AWS.
- Hands-on experience on writing reusable and modular Terraform scripts to define and deploy resources such as EC2 instances, VPCs, security groups, and S3 buckets. Experienced in integrating Terraform with CI/CD pipelines for automated deployments and ensuring infrastructure consistency across environments.
- Implemented monitoring solutions using Prometheus and Grafana to track system performance, collect metrics, and visualize data for effective decision-making.
- Hands-on experience in Working on AWS cloud services **IAM, EC2, S3, Elastic Block Storage, Elastic Load Balancer, Auto-scaling, Webserver, SNS, CloudWatch, VPC.**

Certifications

• Microsoft (a-z 900) certified azure fundamentals

Education

Bachelor of Technology (Computer Science and Engineering) - JNTUK

Declaration

I solemnly declare that all the information furnished in this document is accurate and authentic to the best of my knowledge.

Place: Hyderabad   Yours Truly,

Date: M Balaji