Kandimalla Nikhil

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Professional Summary

Cloud DevOps Engineer with 4+ years of experience in automating and optimizing complex environments. Skilled in deploying cloud-based solutions on AWS and using tools such as Docker, Kubernetes, Jenkins, Terraform, and Ansible to maintain reliable infrastructure and efficient operations. Seeking a role to leverage expertise in DevOps and cloud infrastructure.

Technical Skills

Cloud Environments	:	Amazon Web Services (AWS)
Operating Systems	:	Linux, Windows, Ubuntu, RHEL
Version Control	:	Git, GitHub
Build Tools	:	Maven
Configuration Management	:	Ansible
Infrastructure as Code	:	Terraform
Monitoring Tools	:	AWS CloudWatch, Cloude Trail
Scripting Languages	:	Shell Scripting, HTML, CSS
CI/CD Tools	:	Jenkins
Cloud Platforms	:	AWS (IAM, S3, EC2, EBS, VPC, ALB, ASG, Route53, RDS)
Containerization	:	Docker, Kubernetes.
Artifact Management	:	JFrog
Code Quality and Security	:	SonarQube
Project Management Tools	:	ServiceNow.

Professional Experience

TECH MAHINDRA | SOFTWARE ENGINEER **April 2021 – Present**

Key Contributions:

- Optimized AWS infrastructure (VPC, EC2, S3, Auto Scaling, Route 53) to reduce cloud spending by 20% through cost optimization techniques, including scheduled downtime for non-prod servers.
- Managed Git branching strategies (feature, bug fix, release) to streamline development workflows and improve code management.
- Automated backup processes using S3 versioning and lifecycle policies, archiving data to Glacier for cost-effective long-term storage.
- Integrated Jenkins with GitHub webhooks to trigger jobs on commits.
- Set up and maintained Jenkins Master/Slave configurations across multiple servers to enhance performance and support release processes.
- Developed Ansible playbooks for automated software installation (Maven, GitLab, Java, Node) on EC2 instances, reducing manual effort
- Designed DockerFiles and Docker Compose files to containerize applications, created images, and deployed them across multiple environments.
- Orchestrated containerized applications using Docker and Kubernetes, ensuring high availability of microservices across multiple Namespaces.
- Configured SonarQube Dashboards and assisted teams in publishing unit test and coverage reports for static code analysis in SonarQube Cloud.
- Automated server maintenance tasks, including scheduled backups, cleanup of temporary files, and cache removal to optimize server performance.

Project Experience

Cytiva | AWS DevOps Engineer

Roles/ Responsibilities:

- Automated 90% of AWS infrastructure (EC2, VPC, Auto Scaling, ELB) using Terraform, ensuring high availability and scalability.
- Managed Jenkins CI/CD pipelines, integrating GitHub webhooks for automated builds, and resolved build issues to ensure pipeline efficiency.
- Built deployable artifacts (JAR, WAR, EAR) from source code using Maven as part of the CI/CD pipeline.
- Collaborated with development teams to enhance CI/CD pipelines, enabling seamless deployments and rollbacks of new features.
- Developed and managed Ansible Playbooks and roles, utilizing the file module to automate file management on remote systems.
- Created Dockerfiles, built container images, and pushed them to Docker Hub for deployment.
- Orchestrated containerized applications using Kubernetes for deployment, scaling, and load balancing.

Roche DC Managed Services | Junior DevOps Engineer.

Roles/ Responsibilities:

- Designed and implemented IAM policies for role-based access control, managing user groups and permissions for AWS resources.
- Implemented Git branching strategies to enable parallel development and prevent conflicts during feature development.
- Configured CloudWatch to monitor EC2 instances, setting up alarms and notifications tracking key metrics CPU, network, and load balancer latency.
- Built a Jenkins pipeline to automate code pulls, build WAR files using Maven, create Docker images, and push to Docker Hub, reducing deployment times by 70%.
- Integrated SonarQube and JFrog into Jenkins pipelines for static code analysis and artifact storage, improving code quality and security.
- Collaborated with Dev and Ops teams to streamline deployments and resolve issues promptly.
- Documented processes, configurations, and best practices to support team onboarding and knowledge sharing.
- Set up an AWS environment using Terraform, where Docker and Jenkins are installed. Used Docker for setting up JFrog and SonarQube inside Docker containers for continuous integration and code quality checks.

Education

- Bachelor of Engineering in Computer Science and Engineering from KL University, graduated in May 2020.