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DevOps Engineer

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PROFESSIONAL SUMMARY

AWS Certified Solutions Architect and **DevOps Engineer** with **2.10** years of experience in CI/CD pipeline design, infrastructure automation, and cloud cost optimization. Proven ability to enhance deployment efficiency, streamline workflows, and integrate security into DevOps practices

SKILLS

Versioning Tool - Git, GitHub, GitLab, BitBucket

Scripting - Bash , Python

Cloud Platform - AWS

CI/CD Tools - Jenkins, GitHub actions, Gitlab

Containerization and Orchestration - Docker, Kubernetes

Infrastructure as a code - Terraform

Platforms/Operating System - Linux (Ubuntu,Amazon),Windows

Configuration Management Tool - Ansible

Build Tools - Maven, Gradle, NPM

SAST & DAST Tools - SonarQube, OWASP ZAP, SonarCloud

Web Server - Apache, Nginx

Monitoring & Logging - Grafana, Prometheus, Dynatrace

Programming Language - Python,SQL

Databases - MySQL, DynamoDB, RDS

Security & Compliance: AWS KMS, AWS WAF, GuardDuty, Inspector, Trusted Advisor, AWS CloudWatch, CloudTrail, Config

WORK EXPERIENCE

DevOps Engineer : Cloud Kinetics Technology Solutions Private Ltd   **April 2022 - Present**

- Collaborated closely with customers to understand their requirements and recommended feasible solutions, minimizing application downtime and reducing infrastructure costs.
- Led the **containerization** efforts using the **Docker** platform and managed **orchestration** with **Kubernetes** on **AWS EKS** Spearheaded the design, architecture, and implementation of scalable cloud-based web applications using AWS leveraging advanced **CI/CD pipelines.**

- Managed CI/CD pipeline using **GitHub Actions** to automate code deployment. Developers' code pushes trigger workflows for code checkout, compilation, unit testing, and SonarQube analysis for quality checks. Integrated Trivy for vulnerability scans and stored artifacts in Nexus. **Containerized** applications are pushed to AWS ECR and deployed to an **AWS EKS Kubernetes** cluster. Implemented post-deployment monitoring with Grafana, leveraging AWS Monitor to provide actionable insights into system health and stability.
- Automated CI/CD pipeline with **Jenkins** triggered by GitHub webhook. Workflow compiles, tests, and checks code quality with **SonarQube**, scans vulnerabilities with Trivy, and stores artifacts in Nexus. Builds Docker containers, pushing images to AWS ECR. Deployed to Kubernetes, with Grafana and AWS Monitor for performance insights.
- Led the deployment of a Java-based banking application, integrating Jenkins, Docker, and Kubernetes to establish efficient CI/CD pipelines. **This effort resulted in a 30% reduction in infrastructure costs** and a **50% improvement in system performance through advanced containerization and orchestration.** The project also involved **SonarQube** for code quality assurance, **OWASP dependency checks** for enhanced security, and Ansible for infrastructure automation, ensuring a secure and efficient deployment process.
- Designed and built advanced CI/CD pipelines using Jenkins, integrating tools like Git, SonarQube, Docker, Terraform, Kubernetes, Argo CD, and security tools **(SAST & DAST).** This modernized customer architecture, **leading to a 60% reduction in infrastructure costs** and a **50% enhancement in system performance.**
- Developed production-grade Terraform scripts utilizing conditions and functions to provision services on AWS automating infrastructure provisioning through **Terraform** and **CI/CD** tools. This approach optimized deployment processes, **eliminating 70% of manual work while ensuring high-quality code via continuous integration.**
- Implemented DevSecOps practices, integrating security tool**s (SAST & DAST) into CI/CD pipelines** and at the application level, **enhancing system security by 60%.** Additionally, **implemented monitoring** solutions with **Prometheus, Grafana, Datadog, enhancing observability.**
- Monitored AWS accounts using **CloudTrail** and **CloudWatch**, ensuring real-time visibility and compliance with security standards.
- Implemented **AWS WAF** rules to safeguard web applications against SQL injections, cross-site scripting, and other threats, reducing vulnerabilities by **50%**.
- Enhanced data security using **AWS KMS** by encrypting sensitive application data, meeting industry compliance standards.
- Conducted vulnerability scans with **AWS Inspector**, identifying and mitigating **90% of known security risks** in AWS workloads.
- Implemented monitoring with tools like Prometheus, Grafana, Datadog, enhancing observability
- Successfully automated repetitive tasks using **Bash Script** and maximizing efficiency and ensuring consistent automation performance.

PROJECTS

Cooperative Banking Solution Deployment
- Deployed a Java-based banking application using Jenkins as the CI/CD tool, **achieving a 30% decrease in deployment time compared to manual methods**.
- Configured Docker containers to deploy the application, streamlining the deployment process and **reducing the time to launch new instances by 50%.**
- Orchestrated Kubernetes clusters to host the banking application, providing scalable infrastructure and high availability for production workloads.
- CI/CD Automation Implemented CI/CD pipelines with Jenkins, automating the build, test, and deployment processes. **This automation led to a 30% reduction in manual effort**, improved development cycles, and a more secure deployment process through the integration of SAST and DAST tools.
- Enabled flexible deployment strategies by setting up Docker and Kubernetes environments, allowing for both standalone Docker containers and Kubernetes-managed clusters. This flexibility increased scalability by 50% in real-time operations.
- By integrating Jenkins with Docker and Kubernetes, it achieved a robust and efficient automated deployment

process, significantly enhancing the team's ability to deliver and maintain the application.

Infrastructure Development

- **Architectural Design :** Developed detailed architectural diagrams to align with client specifications, ensuring clarity in project scope and technical requirements.
- **Infrastructure Provisioning :** Provisioned AWS infrastructure using Terraform templates for key components, including VPC, NACL, EKS, ElastiCache Redis, IGW, NAT Gateway, RDS, ALB, CloudFront, Route 53, ACM, enabling a robust and scalable architecture.
- **CI/CD Automation :** Streamlined CI/CD processes using **GitLab** by automating Docker image builds and deployments to Amazon ECR, resulting in faster and more reliable deployment cycles.
- **Application Monitoring :** Integrated AWS monitoring tools (CloudWatch, X-Ray) to enhance application observability and performance tracking, providing actionable insights for performance optimization.
- **Microservices Deployment :** Automated the deployment of microservices into an EKS cluster with ArgoCD, ensuring continuous deployment of image builds and improving operational efficiency

Integrated Business Management Solution

- Deployed front-end applications built with Angular and React, and containerized Java-based microservices in **Kubernetes** and **AWS EKS.**
- Automated infrastructure provisioning using **Terraform**, improving operational efficiency by 40%.
- Designed CI/CD pipelines with Jenkins, integrating Git, SonarQube, and Trivy for code quality and security, including file scanning and Docker image vulnerability scanning.
- Contributed to cloud cost optimization, reducing expenses by 30%. Deployed Prometheus for monitoring and Grafana for visualization, ensuring real-time performance tracking.
- Documented a comprehensive runbook and operations manual to streamline operational procedures, enhancing system reliability, deployment efficiency, and security in a cost-effective manner.

End-to-End DevOps Automation for Cloud-Hosted Application

- Led the development and deployment of a Java-based application with a **CI/CD pipeline** integrated into **AWS** for seamless automation and cloud management.
- Managed source code using **Bitbucket** and integrated **SonarCloud** for continuous **code quality** analysis.
- Utilized **AWS CodeArtifact** to download necessary dependencies during the build process with Maven.
- Built application artifacts using AWS CodeBuild and stored them in **S3** for further use.
- Automated deployment to **AWS Elastic Beanstalk**, with **AWS RDS** handling database connectivity.
- Implemented a post-deployment process to execute Selenium test suites using CodeBuild.
- Designed and managed the pipeline using **AWS CodePipeline**, incorporating CodeDeploy for **efficient** and **reliable** application delivery.

CERTIFICATES

1. **AWS Certified Solutions Architect - Associate - AWS [Credential](#)**
2. **Hashicorp Certified : Terraform Associate 2024 - Udemy [Credential](#)**
3. **DevOps With AWS - MicroDegree**

EDUCATION

BLDEA's V P Dr P.G. Halakatti College of Engineering & Technology   *University : VTU Belagavi*
Bachelor of Engineering