Suryaprakash Ravichandiran

Junior DevOps Engineer
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Objective

DevOps Engineer with expertise in CI/CD automation, AWS infrastructure, and container orchestration. Skilled in streamlining deployments, enhancing security, and improving system reliability. Quick learner and problem solver, passionate about optimizing DevOps workflows.

Education

Master of Computer Application
SCSVMV University, Deemed University – Kanchipuram, Tamil Nadu | Graduated: May 2023

Bachelor of Computer Application
C. Abdul Hakeem College (Autonomous), Thiruvalluvar University – Melvisharam, Ranipet District, Tamil Nadu | Graduated: April 2020

Technical Skills

- **Cloud Platforms:** AWS (EKS, ECR, EC2, S3, IAM, RDS, Route53, CloudWatch, ELB, Auto Scaling)
- **CI/CD & Containerization:** Jenkins, GitLab CI/CD, Docker, Kubernetes, ArgoCD
- **Infrastructure as Code (IaC):** Terraform, Ansible
- **Security & Code Quality:** SonarQube, Trivy
- **Monitoring & Logging:** Grafana, Prometheus, AWS CloudWatch
- **Web Hosting & Proxying:** NGINX, Kubernetes Ingress
- **Scripting & Programming:** Bash, Python
- **Artifact Repository:** Nexus
- **Operating Systems:** Ubuntu, RedHat, CentOS, Windows
- **Databases:** MySQL (Master-Slave Setup), AWS RDS

Professional Experience

Junior DevOps Engineer
CIAR Software Solutions Pvt Ltd – Chennai, Tamil Nadu
March 2024 – Feb 2025

- **Automated CI/CD Pipelines:** Designed and maintained Jenkins-based CI/CD pipelines for Spring Boot applications, enabling continuous integration and deployment with ArgoCD.
- **Containerization & Kubernetes:** Built and managed containerized applications with Docker and Kubernetes, optimizing deployment on AWS EKS with zero-downtime rollouts.
- **Infrastructure as Code (IaC):** Provisioned AWS resources (EKS, ECR, EC2) using Terraform, streamlining deployment processes and reducing manual interventions.
- **Security & Compliance:** Implemented SonarQube for code quality analysis and Trivy for container security scanning, ensuring vulnerability-free deployments.
- **Nginx Ingress & Traffic Management:** Configured Nginx Ingress as a reverse proxy to manage traffic for multiple services, dynamically routing requests based on service names and URLs.

- **Monitoring & Observability:** Integrated Prometheus and Grafana for real-time monitoring, alerting, and dashboard visualization to enhance system reliability.
- **Artifact & Dependency Management:** Managed application artifacts using Nexus and optimized Docker image storage in Amazon ECR.

Projects

Automating Spring Boot Deployment with Jenkins & Docker

Overview: Automated the deployment of a Spring Boot (Maven) web application using Jenkins, Docker, and SonarQube. This pipeline streamlined releases, improved code quality, and enhanced security.

Key Features:

- **Git Checkout** – Pulled the latest code from GitHub using Jenkins.
- **Maven Build** – Compiled and packaged the Spring Boot application into a WAR file.
- **SonarQube Code Analysis** – Performed static analysis to identify code vulnerabilities.
- **Docker Build** – Created a Docker image for the application.
- **Trivy Security Scan** – Scanned the image for vulnerabilities.
- **Push Docker Image to Registry** – Uploaded the image to Docker Hub.
- **Deployment to Server:**
  - Pulled the latest image on the deployment server.
  - Stopped and removed the old container.
- Ran the new container.
- **Email Alerts** – Configured Jenkins to send notifications on pipeline success or failure.

Impact: Reduced manual deployment efforts, improved security compliance, and ensured consistent deployments across environments.

Fully Automated CI/CD Pipeline with AWS EKS & ArgoCD

Overview: Built and deployed a zero-downtime, GitOps-driven CI/CD pipeline—automating application rollouts with Jenkins, ArgoCD, and AWS EKS.

Key Features:

- Spring Boot Web Application – Hosted on GitHub as the source code.
- AWS EKS Cluster – Managed Kubernetes cluster for containerized applications.
- Jenkins CI/CD Pipeline – Automates build, security scans & deployment.
- ArgoCD GitOps Deployment – Ensures automated & version-controlled releases.
- Nginx Ingress – Manages URL-based traffic routing.
- Security & Monitoring – Integrated SonarQube, Trivy, and best DevOps practices.

Impact: Improved deployment efficiency, ensured scalability, and enhanced security compliance.

Key Achievements

- Designed and automated CI/CD pipelines, reducing deployment time by 40%.
- Successfully deployed and managed applications on AWS EKS using Kubernetes and ArgoCD.
- Implemented secure containerized deployments with Docker, ECR, and Trivy scanning.
- Configured Nginx Ingress for efficient traffic routing among multiple services, enhancing scalability.