

MEDA VENKATA SAI KOWSIK

DevOps Engineer

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Contribute expertise in DevOps processes and automation to a dynamic team, driving efficient software delivery and system reliability in a high-paced environment.

Profile Summary

- Over 3 years of expertise in implementing **DevOps methodologies** across platforms, specializing in CI-CD development of **Java, Python, Angular microservices, and Salesforce automation (SFA) services**. Currently serving as a DevOps Engineer at Edgeverve Systems Ltd., contributing to cutting-edge solutions and driving project success.
- Led cross-functional teams to establish and maintain **robust DevOps practices**, resulting in improved collaboration, faster releases, and more efficient workflows across the organization.
- Proven track record in designing and implementing **end-to-end CI/CD pipelines** and delivered applications in AWS and GCP to the customers, accelerating software delivery cycles while maintaining high standards of quality and security.
- Achieved a **nearly 80% reduction in deployment downtime** by automating CI/CD workflows, optimizing the release process for faster delivery.
- Led migration of 150+ projects from GitLab to GitHub**, implementing custom workflows and used **GitHub Actions runners** to automate builds and deployments, ensuring seamless integration and on-time delivery.
- Implemented scalable and secure cloud solutions using a wide range of AWS services, including **VPC, EC2, ELB, ASG, S3, CloudWatch, CloudTrail, Lambda and IAM** e.t.c.,
- Expertise in leading the **end-to-end setup and deployment** of high-availability and **fault-tolerant Kubernetes clusters** on **on-premises** and **cloud (AWS)**, utilizing kubeadm initializer.
- Experienced in **using Terraform and Ansible** to automate AWS infrastructure, enabling scalable deployments and efficient multi-cloud management.
- Spearheaded the full release process**, overseeing the transition from development and local testing environments to production cloud environments, including **development of pipelines, testing the application urls, deployment, debugging**, and managing the deployment of **hotfixes** after the main release.

Competencies

CI/CD Pipelines	Kubernetes	Docker
DevOps Automation	Monitoring	Logging
Infrastructure as Code (IaC)	AWS	GitLab to GitHub Migration

Work Experience

Dec'2021 to Present: DevOps Engineer at Edgeverve Systems Ltd.

Responsibilities:

- Designed and implemented end-to-end CI/CD pipelines using Github actions for AWS platform to automate the software development lifecycle, improving deployment speed and accuracy.
- Scaled and optimized product deployments in GCP and AWS for multiple customers using the blue-green deployment approach, ensuring high availability, seamless updates, and minimal downtime, while improving the overall user experience.
- Collaborated with cross-functional teams to ensure seamless integration of new features, addressing integration challenges and ensuring consistent delivery across environments.
- Engineered and deployed Kubernetes clusters for Dev, QA, and Perf environments, optimizing infrastructure for seamless application development and testing.
- Implemented Prometheus, Grafana monitoring system to collect metrics from containerized applications, creating alerts and visualizations for latency, error rates. ELK stack is used to log events.
- Utilized Terraform, Ansible to define Infrastructure, Configuration and manage cloud resources across multiple environments, enabling infrastructure provisioning and configuration automation.
- Integrated DevSecOps practices by embedding tools like Checkmarx, Blackduck, SonarQube, and Twistlock for code quality, security, and compliance.
- Ensured security and compliance in DevOps processes, implementing best practices for application security, and regulatory requirements, while also troubleshooting the issues raised by developers in the containerized environments.
- Maintained version control systems, such as Gitlab and Github, and managed branch policies to support collaborative development and streamline release cycles.

Education

- B.Tech., Chemical Engineering, SASTRA University, Thanjavur, Tamil Nadu, 2020

Technical Skills

Category	Tools/Technologies
CI/CD & Build	Gitlab, GitHub, Helm, Maven
Infrastructure & Configuration	Terraform, Cloud Formation & Ansible
Cloud	Amazon Web Services (EC2, VPC, ELB, S3, Route53, IAM, LAMBDA, ASG, IAM)
Monitoring	Prometheus, Grafana, Splunk, CloudWatch, CloudTrail
Logging & Tracing	OpenSearch, OpenTelemetry, ELK, Fluentbit, Jaeger
Opensource Services	Kafka, HashiCorp Vault, Zookeeper, Keycloak, Istio, Redis, Solr
Languages	Shell Scripting

Certifications

- AWS Cloud Practitioner
- Microsoft: Azure Fundamentals (AZ-900)
- Introduction to Kubernetes by Linux Foundation (LFS158)

Personal Details

Date of Birth : 17 July 1999
Languages Known : English, Telugu, Tamil
Address : 9/48-B, Gandhi Road, Vempalli, Kadapa(dt), Andhra Pradesh-516329

Projects

Full-Stack Microservices Deployment for Various Customers under TradeEdge Network

Team Size: 4

Client Names: Hipus (Japan), Heineken (Netherlands)

Duration: 3 Years 5 Months

Project Details:

- **TradeEdge:** A cognitive supply chain platform enabling real-time visibility, scalable operations, and driving demand-driven growth and market expansion.
- **TradeEdge Network:** A peer-to-peer platform within TradeEdge, connecting businesses globally for real-time collaboration, reducing lost sales, and maximizing channel visibility.

Responsibilities:

- Spearheaded end-to-end deployment, driving the build, implementation, and validation phases, ensuring seamless delivery and stakeholder satisfaction.
- Orchestrated and optimized CI/CD pipelines using GitLab and GitHub, streamlining the testing, building, and deployment of applications across microservices, while engineering Blue-Green deployment strategies to ensure seamless releases and zero-downtime deployments for all tenants.
- Pioneered containerization of backend (Java, Python, SFA) and frontend microservices with Helm charts, ensuring streamlined and consistent deployments.
- Implemented AWS infrastructure using Terraform, including EC2, VPC, S3 and more, while automating configuration management with Ansible to enhance efficiency and maintain consistent environments across all stages.
- Proactively ensured security by consistently applying timely updates to open-source and base image components, maintaining a secure development lifecycle.
- Deployed Istio service mesh, enhancing service-to-service communication & security across the microservices architecture.
- Integrated Prometheus, Grafana and Cloud Watch for advanced monitoring and visual analytics, enabling early detection and resolution of potential system issues.
- Developed a robust logging mechanism, facilitating quick issue diagnosis and enhancing application observability.
- Collaborated with cross-functional teams to secure image approvals and uphold strict security practices across staging and production environments.
- Led post-deployment monitoring, testing, and UAT preparation, ensuring timely issue resolution and application stability.
- Provided 24/7 on-call support, delivering prompt troubleshooting and maintaining system stability.

Market Connect (File Processing) Implementation for Nike on Flipkart & Myntra (AWS)

Team Size: 4

Client Name: Nike

Duration: 2 Years

Project Details:

- Automates two-way data exchange between channel partners and manufacturers for sales, orders, inventory, and invoices, scaling data acquisition across diverse markets.
- Facilitates data-driven decision-making through cleansed, enriched data and robust APIs for seamless integration.

Responsibilities:

- Directed end-to-end design, implementation, and validation of system deployment, ensuring smooth user acceptance and minimal downtime.
- Engineered highly efficient deployments with **Kubernetes** and cost-effective open-source solutions (**ActiveMQ**, **PgBouncer**) for optimized messaging and database access in their on-prem.
- Led collaboration with the operations team, ensuring smooth post-deployment activities, flawless deployment completion, and rigorous testing processes.

Migration from IDC to GCP (Infosys Internal Project)

Team Size: 1

Client Name: Infosys, Bengaluru

Duration: 2 Months

Project Details:

- Migrated files from Infosys' on-premises data center to **Google Cloud Platform (GCP)** to resolve latency issues and enhance data accessibility.

Responsibilities:

- Designed and implemented an efficient script/job to automate file transfer from on-premises environments to **GCP**, ensuring seamless migration with minimal downtime.
- Developed functionality to create test files of varying sizes (1 byte, 1 MB, 1 GB), automatically transferring and validating file migration to **GCP**, ensuring optimal transfer speeds and time.