

Lokesh Naagam

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[GitHub](#)

PROFESSIONAL SUMMARY: -

- Around 3 years of experience, I have demonstrated expertise in successfully leading the implementation and maintenance of DevOps pipelines, utilizing Jenkins for continuous integration and continuous deployment (CI/CD) processes.
- Managing Lower Level of Care (LLC) environments such as DEV, QA, and QP, along with the production (PROD) environment, for various releases, while designing instance strategies to ensure smooth operations.
- Utilizing Jenkins to automate build, test, and deployment phases, and collaborating with Spinnaker for deployment processes. Leveraging Spinnaker's approval mechanism to deploy new releases on Kubernetes clusters efficiently.
- Additionally, automating server configuration and application deployment using Ansible, streamlining processes and minimizing errors.
- Skilled in containerization technology with Docker, employing it to encapsulate applications and dependencies for seamless deployment across environments. Proficient in leveraging Docker Hub for efficient container image management, distribution, and collaboration, ensuring streamlined development and deployment workflows.
- Setting up panels in dashboards using Prometheus and Grafana, configure alerts for various metrics such as CPU utilization, memory utilization, pod count, and latency. These panels provide comprehensive data insights into the performance and health of Kubernetes clusters and associated applications.
- Experienced in Jira for issue tracking, task management, and agile methodologies. Skilled in Confluence for documentation, knowledge bases, and team collaboration.
- Experienced in Google Cloud Platform (GCP), specializing in GKE for Kubernetes cluster management and overseeing virtual instances for database operations. Proficient in utilizing log-based metrics for application management and establishing alert policies through GCP's alerting service. Skilled in optimizing infrastructure performance and ensuring seamless operation of cloud-based applications.
- Additionally, adept in implementing Pub/Sub messaging system within GKE environments, enabling efficient communication and event-driven architecture for scalable and resilient applications.
- Utilizing Kubernetes workloads to efficiently manage application pods across namespaces, SQL services for streamlined database management, and storage buckets for effective file storage and retrieval, ensuring seamless operations and optimal resource utilization.
- Proficient in version control with Git and Bitbucket, facilitating collaborative development workflows, code review processes, and seamless integration with CI/CD pipelines. Leveraging these platforms for efficient code management, branching strategies, and ensuring versioning integrity across projects.
- Mastered Linux OS for seamless app deployment & robust maintenance. Skilled in shell scripting for task automation & process optimization. Effectively leverage Linux environments for smooth operations & optimal performance.
- Utilizing SonarQube for thorough code quality assessment, maintaining high standards through quality gates and profiles. Enforcing best practices, enhancing software reliability and maintainability.

TECHNICAL SKILLS: -

Category	Tools and Technologies
Cloud Technologies	Google Cloud Platform (GCP), Amazon Web Services (AWS)
Tools/Software	Jenkins, Docker, Kubernetes, Ansible, Maven, SonarQube, Terraform, Nexus, Docker Hub, Jira, Confluence, ServiceNow
Source Code Management	Git, GitHub, Bitbucket
Databases	MySQL, PostgreSQL
App/Web Server	Apache Tomcat 7.0.14/9
Operating Systems	UNIX, Linux, Windows
Methodologies	Agile Methodology, Scrum, Waterfall

PROFESSIONAL WORK EXPERIENCE: -

Client: THD HOMEDEPOT (Canada)
Tata Consultancy Services.
DevOps Engineer

Aug 2020 – Present

Responsibilities:

- Managed infrastructure using Google Cloud services, including compute, storage, and databases.
- Orchestrated containerized workloads using Kubernetes for efficient deployment and scaling.
- Implemented log-based metrics for monitoring system performance and application health.
- Configured Grafana dashboards to visualize critical metrics such as CPU utilization, memory usage, pod count, and latency.
- Established alerting mechanisms within Grafana to detect anomalies and notify stakeholders promptly.
- Conducted pre-validation checks before deployments, verifying change and RFC numbers, ensuring rollback procedures, and validating Helm versions.
- Performed post-deployment validation, analysing logs and testing new updates to ensure successful deployment.
- Managed secrets and config maps during deployment processes to handle sensitive information securely.
- Acted as a primary point of contact for handling JIRA tickets related to database updates, pipeline setup requests, and operational issues.
- Developed automation tools and scripts to streamline tasks such as routine maintenance and deployment processes.
- Implemented proactive measures like a pod refreshing tool to maintain optimal application performance.
- Collaborated closely with cross-functional teams to ensure alignment on deployment activities and issue resolution.
- Provided documentation and support to facilitate knowledge sharing among team members.

PERSONAL PROJECTS: -

1. **Spring Boot Application with Database Pipeline:** I crafted a seamless deployment pipeline for Spring Boot applications integrated with databases. This streamlined process ensures efficient deployment, while enhancing reliability and scalability.
2. **Web Application (Web Resume) Pipeline** I developed an end-to-end deployment pipeline for web applications. This implementation has significantly improved the deployment process, ensuring swift and reliable delivery of the Web Resume application.

Tools Used: AWS, GitHub, Jenkins, Docker, Maven, SonarQube, Nexus, Tomcat, Kubernetes.

GitHub Link: [View on GitHub](#)

EDUCATION: -

Bachelor of Science: Computer Science, 07/2020
Adikavi Nannaya University - Andhra Pradesh

CERTIFICATION: -

Associate Cloud Engineer - Google Cloud - May 20, 2024
AWS Certified DevOps Engineer - Professional 2022 -Udemy