

Jajati Kishore Samal

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GitHub - [jajati-kishore-samal](https://github.com/jajati-kishore-samal)

Professional summary

DevOps/Cloud Engineer with **3** years of experience in automation, infrastructure management, and enhancing software development practices. With a strong background in **CI/CD pipelines** and **cloud infrastructure**, I have significantly improved operational efficiency and system reliability. My work in integrating monitoring solutions and securing DevOps practices has led to substantial reductions in incidents and enhanced performance across projects. **Technical Skills**

CI/CD Tools (Continuous Integration / Deployment): CI/CD with Jenkins, GitHub Action, GitLab, Azure Pipelines

Configuration Management & Build Tools: Ansible & Maven

Containerization Container Orchestration: Docker, Docker Swarm, Kubernetes

Infrastructure as Code: Terraform, AWS CloudFormation

Cloud Platform: AWS, Azure && OS - Linux

Source Code Management (SCM): Git, GitHub, GitLab, Azure Repo

Artifact Repository / Package Management: Nexus Repository, Azure Artifact

Visualization Tools: Prometheus, Grafana

Testing / Quality / Security: SonarQube, Sonar Cloud

Scripting & Automation: Shell Scripting, Python, PowerShell

Experience/Projects

VENTREK SOLUTION

DevOps/Cloud Engineer

Nov. 2022 - Présent

Hyderabad, India

- **Infrastructure Automation:** Designed and implemented **CI/CD** pipelines using **Jenkins, Git Web-hooks** build, test, And deployment processes.
- Managed source code using **Git**, collaborated with development teams on branching strategies, and handled code **merge and conflict resolution**.
- Integrated Maven for Java-based build automation and handled artifact management using **Nexus Repository**.
- Developed automated infrastructure provisioning workflows using **Terraform** and **Ansible** & Automated infrastructure provisioning using Terraform for both **AWS and Azure cloud** environments.
- Configured **SonarQube** for code quality analysis and automated testing in the pipeline.
- Created **Docker files** and built **Docker images** for **microservices & multi-container** applications using **Docker Compose**.
- Automated configuration and software deployment using **Ansible playbooks**.
- Deployed and managed **Kubernetes** clusters (**EKS/Mini Kube**) for scaling and high availability of containerized applications & handled rolling updates, deployments, and services in Kubernetes using **YAML** configuration files.
- Managed incident response and troubleshooting for production systems, ensuring a high uptime of 99% and fast resolution of issues in collaboration with engineering teams, minimizing service interruptions.

Client: Libra Insurance Services Ltd

DevOps Engineer

Jan2023 – July 2024

Hyderabad, India

Description: This Project describes Insurance services, Risk Services, Policy Maintenance, Premium Transaction and Payment Maintenance. It has the facility to take insurance policy and deals with registration of agents through internet. It gives all the information about insurance like policies, agents, offices, glossary of insurance terminology, online services to some of the policies, information regarding expiry, renewal and status enquiry. It comprises administrative level management, Front Office management and medical examiner module for tracking the health conditions of the customers. **Responsibilities:**

- Administration of **Azure repositories** for the development team and branch strategy follow up and guidance...

- Support to the development team, need to have good exposure of working on continuous integration, continuous deployment CI/CD & Reviewing and optimizing the existing build, release pipeline.
- Scripting exp in **Power Shell programming**. Worked on Source Control Management Tools like Git.
- Building and supporting the build pipelines for the development teams, deployment and monitoring issues on the **Azure DevOps** deployments.
- Azure Integration with **Kubernetes** & Created **Docker images** and containers.
- Configured **Virtual Machines, Azure AD**.
- Performed automation tasks in Power Shell, Azure CLI and JSON form ARM templates.

Ultimate DevOps CI/CD Pipeline to Deploy a 3-Tier Application in Kubernetes

Aug 2024 – Continue

Description:

The Ultimate DevOps CI/CD Pipeline automates the process of building, testing, and deploying a 3-tier application (Frontend, Backend, Database) in a Kubernetes cluster using tools like Git, Jenkins, Maven, Docker, SonarQube, **Nexus**, **Kubernetes**, **Helm**, **Ansible**, **Terraform**, and cloud platforms (**AWS or Azure**).

Roles and Responsibilities:

- Source Code Management (Git): Maintain Git repository with proper branching and merge strategies.
- Set up **webhooks** for **Jenkins triggers**.
- CI/CD with Jenkins: Design **Jenkins pipelines** for automated build, test, and deployment.
- Integrate tools like **SonarQube**, **Nexus**, **Docker**, **Kubernetes** into **Jenkins**.
- Build and Code Quality (**Maven & SonarQube**): Automate **Maven** builds and integrate **SonarQube** for static **code analysis**.
- Artifact Management (**Nexus**): Store versioned artifacts (**.jar**, **.war**, etc.) securely.
- **Docker & Image Management**: Create **Docker files** for each tier (frontend, backend).
- Build and push **Docker** images to **container registry**.
- Infrastructure Automation (**Terraform**): Write Terraform scripts to provision **Kubernetes clusters** and other resources on **AWS/Azure**.
- Configuration Management (**Ansible**): Use **Ansible** to install necessary software or configure servers (e.g., **Jenkins**, **Kubernetes tools**).
- Kubernetes Deployment: Write Helm charts or **YAML files** to **deploy 3-tier apps to Kubernetes**.
- Manage Services, Ingress, Volumes, Secrets, Config Maps.
- **Monitoring & Logging**: Set up Prometheus/Grafana or ELK for monitoring application and cluster health.
- **Security & Access Management**: Manage secrets (Kubernetes Secrets, Vault), **RBAC policies**, and secure communication.

Education

Biju Patnaik University of Technology
Master of Computer Application (MCA)
Certification – NPTEL –IIT Kharagpur – Cloud Computing, IOT, IPR, MIS

Nov 2022 – Dec 2024
CGPA - 8/10