Manish Kumar Mourya

DevOps Engineer

manishmourya108@gmail.com +91-7300068945 Jaipur, Rajasthan

https://www.linkedin.com/in/manish-kumar-mourya/ https://medium.com/@maniishere

https://github.com/M4nihere

PROFILE

With 1.5 years of experience, I possess a strong skillset in streamlining the software development lifecycle **(SDLC)**. I specialize in designing, implementing, and managing **CI/CD** pipelines using industry-standard tools like **Azure DevOps**, Jenkins, **GitHub Actions**, **GitLab Pipelines**, **Bitbucket Pipelines**, and **AWS CodePipeline**. My expertise extends to Linux administration **(RHEL, Ubuntu)** and hands-on experience with cloud platforms like **AWS**, including **AWS Elastic Beanstalk**. I am proficient in containerization technologies **(Docker, Kubernetes, OpenShift)** and leverage **Infrastructure as Code (IaC)** tools such as **Terraform** for efficient infrastructure management. Additionally, I have experience with the **Elastic Stack** for **monitoring and log analysis**. My problem-solving abilities and expertise in DevOps practices enable me to ensure smooth operations and effective troubleshooting in dynamic environments.

SKILLS

Linux: RHEL, Ubuntu | **AWS:** EC2, ECS, EKS, CloudFormation, IAM, Code Build, Code Pipeline, SNS, VPC, Elastic Beanstalk, CloudWatch. Event Alerts | **Docker** | **Kubernetes:** Helm, Kubernetes Operators,KEDA, Prometheus, Grafana, HPA | **OpenShift** | **Jenkins** | **Ansible** | **Terraform** | **Azure DevOps** | **Git, GitHub & Bitbucket**

PROFESSIONAL EXPERIENCE

The NineHertz 05/2024 – present
DevOps Engineer Jaipur, India

As a DevOps Engineer at The NineHertz, I work on improving the efficiency and reliability of software development and deployment processes. My role focuses on automating workflows, managing cloud infrastructure, and ensuring smooth application performance.

- **Cloud Infrastructure**: Manage AWS services like **EC2, RDS, and Elastic Beanstalk** to host and scale applications. Migrated databases to AWS RDS, resulting in enhanced performance and reliability.
- **CI/CD Pipelines**: Designed and optimized CI/CD pipelines using **GitLab** and **GitHub Actions**, automating build, test, and deployment workflows to reduce deployment times and minimize downtime for multiple projects.
- **Monitoring and Logging**: Implemented dashboards to monitor application health and identify issues proactively.
- **Containerization**: Utilized **Docker** for consistent application deployment and setup, including managing containerized services like MongoDB.
- **Server Configuration**: Configured Nginx and Apache servers for reliable and secure application delivery.
- **Task Automation**: Automated recurring processes like payment verification using tools like Celery and cron, increasing operational efficiency.
- **Team Collaboration**: Worked closely with developers to integrate DevOps best practices, mentoring team members on cloud infrastructure and system administration.

FlyingSpark Infotech 11/2023 – 05/2024
DevOps Engineer Chandigarh, India

Projects
Car Rental Platform
Responsibilities:

- **Fortified Security:**
  - Established a private VPC and deployed Elastic Beanstalk with zero public access.
  - Implemented security hardening measures for AWS resources.

- **Automated Deployments:** Built and deployed Java & Node.js code to Elastic Beanstalk environments using a custom AWS Code Pipeline.
- **Elevated Security:** Implemented security hardening measures for AWS resources, reducing potential vulnerabilities.
- **Enhanced Monitoring:** Configured CloudWatch to store and monitor Elastic Beanstalk environment logs for proactive problem identification.
- **Improved Collaboration:** Integrated Microsoft Teams for Code Pipeline alerts, facilitating faster resolution of deployment issues.
- **Infrastructure Automation:** Utilized Terraform for declarative infrastructure provisioning and management, ensuring consistent and repeatable deployments.

Technologies used:
AWS services for managing cloud infrastructure (IAM, EC2, VPC), deployment (Elastic Beanstalk, Code Deploy, Code Pipeline), security (Security Groups), code management (Code Commit, S3), monitoring (CloudWatch), and infrastructure as code (Terraform).

Data Processing and Analytics Platform
Responsibilities:
Spearheaded infrastructure modernization: Led the migration of existing infrastructure from Docker to Kubernetes, enabling:
- **Scalability and Orchestration Boost:** Utilized Kubernetes and OpenShift for elastic resource allocation and automated deployments of containerized applications.
- **Simplified Application Management:** Implemented Kubernetes Operators to streamline application lifecycle management and ensure consistent configuration.
- **Efficient Package Management:** Employed Helm charts to simplify application packaging and version control for consistent deployments.
- **Big Data Analytics Integration:** Integrated Apache Spark with Kubernetes to facilitate efficient distributed processing of large datasets.
- **Enhanced Monitoring:** Established monitoring using Prometheus to gain real-time insights into application and infrastructure health within the Kubernetes environment.
- **Flexible Ingress Control:** Configured Nginx and HAProxy Ingress Controllers to provide high-availability and load balancing for containerized services.

Technologies used:
- Container Orchestration Platforms: Kubernetes, OpenShift
- Package Management: Helm
- Data Processing & Workflow Management: Apache Airflow Apache Spark
- Monitoring: Prometheus
- Ingress Controllers: Nginx Ingress Controller, HAProxy Ingress Controller

PROJECTS

Azure DevOps Pipeline
FlyingSpark Infotech.
Created an Azure DevOps pipeline with Bitbucket. The pipeline builds the Java code located in the Bitbucket repository and stores the build artifacts in Azure Artifacts.

Completely Secured Private VPC by Terraform
Created a secure VPC on AWS using Terraform. Resources reside in private subnets within the VPC, with a public subnet for internet-facing resources and a load balancer. Instances in private subnets lack public IP addresses.

Kubernetes Cluster by Ansible Playbook
Grras. Soluitions Pvt. Ltd
Written an Ansible Playbook to deploy Kubernetes Cluster on AWS EC2

EDUCATION

Master's in computer application 07/2023 – present
Rajasthan Technical University Jaipur, India

Bachelor's in computer application 07/2018 – 09/2021
St. Wilfred's PG College Jaipur, India