

MD. Afzal Hassan Ehsani

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Skills

Languages: Python, JavaScript, Bash, Groovy

Cloud Technologies: AWS (EC2, S3, DynamoDB, RDS, Route53, Lambda), Civo, Digital Ocean

Web Technologies: Nginx, Tomcat, Apache, Django, Flask, ReactJS, Redis, HTML, CSS

Infrastructure as Code: Terraform, Ansible

Version Control Tools: Git, GitLab, GitHub

Operating Systems: Linux, Mac OS, Windows

DevOps: Docker, Kubernetes

Experience

DevOps Intern, TWS – Pune, India

Nov 2024 – Jan 2025

- **Continuous Integration and Delivery (CI/CD):**

- Automated build and deployment pipelines using Jenkins, integrating updates from GitHub via triggers and webhooks, and ensuring smooth application delivery processes.

- **Containerization and Orchestration:**

- Built Dockerfiles to containerize applications and managed Kubernetes (EKS) deployments, ensuring scalability and reliability of services.
- Utilized Kubernetes manifests and an NGINX ingress controller for efficient traffic distribution across the application.

- **Infrastructure Automation:**

- Automated the creation and management of Kubernetes (EKS) resources using eksctl, Terraform, and Ansible.
- Ensured consistent and error-free infrastructure provisioning, reducing manual efforts by 70% and eliminating 99% of human errors.

Projects

Three-tier application

github.com/iemafzalhassan/full-stack_chatApp

- Streamlined infrastructure provisioning by orchestrating the creation and management of Kubernetes (EKS) resources with eksctl, Terraform, and Ansible; achieved a 70% reduction in manual efforts leading to consistent setups.
- Managed application deployment with Kubernetes manifests, ensuring a consistent and scalable deployment process.
- Utilized Jenkins to automate builds and integrate updates from GitHub, enabling seamless continuous integration. This reduced manual intervention in the CI/CD process by 80%, ensuring faster and error-free deployments.
- Configured an NGINX ingress controller to efficiently distribute traffic across the application, improving application performance and ensuring high availability.

Banking application

github.com/iemafzalhassan/Dummy-Bankapp

- Deployed a banking application on EKS, Automated infrastructure creation with Terraform and environment configuration with Ansible. This reduced deployment and scaling time by 50%, while eliminating 100
- Improved overall efficiency of deployment pipelines and infrastructure management, increasing development and operational productivity by 40%.
- Ensured scalability, reliability, and performance of the application through Kubernetes-based orchestration and robust infrastructure as code practices, boosting application uptime by 99.9%.
- Facilitated a streamlined DevOps workflow, bringing 50% faster turnaround times for feature releases and significantly reducing downtime risks.

Education

Dr. Jagannath Mishra College, I.Sc

March 2017 – March 2019

- Intermediate in Science

Kalinga University, Raipur Chhattisgarh, BCA

March 2019 – March 2022

- BCA