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Skills

Cloud Platforms — AWS

IaC — Terraform

Containerization — Docker, Kubernetes

CI/CD — Github Actions, Jenkins

Operating System — Linux, Windows

Languages — Python, C++

Projects

2024/10

Stan's Robot Shop [🔗](#)

AWS EKS | Kubernetes

- Architected and deployed a **microservices application** on **AWS**, utilizing eksctl and **AWS CLI** to provision and configure the **EKS cluster**.
- Leveraged **Helm charts** to ensure modular and consistent deployments of **Kubernetes** resources across various environments.
- Configured **IAM roles** and integrated an **IAM OIDC provider** with Kubernetes service accounts, enabling secure interaction between EKS workloads and AWS services.
- Implemented the **EBS CSI Plugin** to automate the provisioning of **AWS EBS** volumes for **Redis StatefulSets**, ensuring persistent storage.
- Deployed the **AWS ALB Ingress Controller** to expose application services to the internet through an **Application Load Balancer**.

2024/08

Three-tier Web Application [🔗](#)

AWS Elastic Beanstalk | AWS Amplify | Github Actions | Terraform

- Deployed a **three-tier MERN web application** on **AWS** using **Elastic Beanstalk**, **Amplify** and **MongoDB**.
- Applied Infrastructure as Code (IaC) principles using **Terraform** to automate the deployment of **AWS resources**.
- Leveraged **MongoDB Atlas** for scalable, and managed database services.
- Designed and implemented a **CI/CD pipeline** using **GitHub Actions** to automate code deployment to **AWS Elastic Beanstalk**.
- Utilized **Route 53** for managing **hosted zone** and created alias to route traffic to the **Application Load Balancer**.

2024/07

Deployment of Node Application

AWS EC2 | AWS ECS | Terraform | Docker | Github Actions

- Executed deployment of a **full-stack application** with **Strapi** as the backend and **React** as the frontend on **AWS**.
- Provisioned **EC2 instance** for the **Strapi** backend and **ECS cluster** for the **React** frontend with the help of **Terraform**.
- Configured **VPC** and **Security Groups** to ensure network isolation and secure communication. Deployed an **Application Load Balancer** for efficient traffic management.
- Utilized **Docker** to containerize and build the **React** frontend for optimized application performance, scalability, and resource utilization.
- Hosted a domain on **AWS Route 53** and configured an alias to route traffic to **Application Load Balancer**.

Professional Experience

2024/06 – 2024/07

DevOps Engineer Intern

PEARLTHOUGHTS

- Configured essential AWS components, including **EC2**, **VPC**, **Security Groups**, **Application Load Balancer**, and **IAM Roles**, to ensure secure and scalable deployment.
- Deployed a web application using **Strapi** and **React** on **AWS ECS Fargate** utilizing **Terraform**, implementing **Infrastructure as Code (IaC)** for efficient resource management.
- Utilized **Docker** to containerize the application and pushed the image to **AWS ECR**, **reducing deployment time by 30%**.
- Developed a **CI/CD pipeline** with **GitHub Actions**, achieving a **60% faster deployment** process and a **20% increase in successful deployments**.

2022/08 – 2022/09

Summer Internship Trainee

ASSAM POLICE RADIO ORGANISATION

- Acquired expertise in radio communication systems, operating and troubleshooting a wide range of equipment, resulting in enhanced team communication and **reduced downtime by 40%**.
- **Designed and deployed an Inverted-V antenna** with an operating frequencies of 7Mhz, 14Mhz and 21Mhz.

Certificates

CS50's Introduction to Programming with Python: ☑ May 2024

Oracle Cloud Infrastructure 2023 Certified Architect Associate: ☑ September 2023

NPTEL Cloud Computing: ☑ October 2021

Education

2024

B.Tech in Electronics and Telecommunications Engineering

Assam Engineering College

2020

Diploma in Electronics and Telecommunications Engineering

Kamrup Polytechnic