

KARAN CHOUDHARY

DevOps | Cloud Enthusiast

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PROFESSIONAL EXPERIENCE

Cloud Engineer Intern | June 24 - Present

Brained

- Spearheaded Cluster migration to reduce infrastructure costs and enhance deployment stability.
- Managed and optimized clusters for Production (Prod) and User Acceptance Testing (UAT), each initially comprising four D2ads_v5 nodes on a pay-as-you-go basis.
- Implemented separate Nginx for each project in the Prod environment to isolate deployment issues.
- Transitioned cluster nodes to 3-year reserved instances, achieving approximately 60% cost reduction.
- Created separate clusters for each project with Std_B2s node using Terraform, improving visibility and deployment efficiency.
- Responsible for Project deployment, creating cloud resources, managing SSL certificates, infrastructure, and data storage on cloud based on raised tickets.

Projects

Three-tier To-Do Application Deployment

- Successfully deployed a three-tier To-Do application on AWS EKS, featuring a React frontend, Node.js API backend, and MongoDB database. Configured IAM roles and an EC2 instance for infrastructure management, utilizing AWS CLI and Docker for setup.
- Utilized AWS ECR for secure container image storage.
- Automated EKS cluster creation with eksctl, establishing a cluster with 2 nodes. Managed Kubernetes operations with kubectl and deployed application manifests efficiently.
- Enhanced traffic management with AWS Load Balancer Controller and configured Ingress using Helm.

Setup CI/CD Pipeline using Jenkins

- Initiated the development of Continuous Integration Continuous Deployment(CI/CD) pipeline to automate the deployment of a Node.js Todo application hosted on a EC2 instance.
- Provisioned an EC2 instance and installed Jenkins to establish an CD/CD environment.
- Cloned the Todo app code from GitHub and Dockerized the Todo app through the creation of a Docker file ensuring portability and reproducibility.

SKILLS AND TOOLS

Docker, Kubernetes, Terraform, Jenkins, CI/CD, GitHub, Bash, Python, Networking, Helm, MySQL, BitBucket, Lens, SSH, SSL

AWS Services - EC2, VPC, S3, RDS, IAM, Lambda, CloudWatch, EKS, Route53, SNS, ASG, LoadBalancing

Azure - Virtual Machine, AKS, StorageAccount, ResourceGroup, KeyVault, Alerts, Vnet, Monitoring

OS - Linux, Windows

EDUCATION

Vidyavardhini's College of Engineering and Technology | 2020-2024

Bachelor of Technology | 8.64 CGPA

R.P Jr College | 2019-2020

12th - Science | 71.69 %

J B Ludhani High School | 2018

10th - General | 88.40 %

CERTIFICATION

- AWS Cloud Practitioner Certification | Udemy