

Chaitanya Golhar

AWS Solution Architect Associate certified, I'm a DevOps and cloud enthusiast eager to contribute my skills and knowledge to organizational growth. Actively seeking opportunities to further enhance my capabilities in a dynamic tech environment.

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EXPERIENCE

Devops Intern | Digitalbackoffice

Remote | Feb 2022 - Jun 2022

- Managed AWS infrastructure using Terraform, including the setup of EKS clusters, VPCs, and RDS.
- Created and maintained Docker images for various applications.
- Troubleshooted and managed Kubernetes infrastructure, with EKS as the primary service.
- Developed EKS clusters using Terraform and deployed applications using Helm charts.
- Created and managed Helm charts for application deployment.
- Implemented GitHub Actions for CI/CD pipelines, automating the deployment of Docker images upon code push to GitHub.
- Wrote Python scripts to build Docker base images with different Python and R versions.
- Established CI/CD workflows to deploy Docker images to DockerHub using GitHub Actions.

Engineer - Cloud & Infra Services | LTIMindtree

Bengaluru, Karnataka | July 26, 2022 - Present

CIS - Academy Training | July 2022 - Dec 2022

- Completed comprehensive CIS Training at LTIMindtree, honing skills in Linux Administration, Python, AWS, Networking, and PowerShell Scripting.

Data Middleware Administrator | Feb 2023 - Present

Project - CTI GCB | Client - CITI

- Monitored Infosphere suite (DataStage/Quality Stage) servers, efficiently resolving job locks, shared memory locks, and hung processes, ensuring a 20% reduction in incidents.
- Applied fixes, patches, and service packs promptly, contributing to sustained infrastructure and application stability.
- Proactively managed start/stop services, monitored logs, set up security measures, assigned roles, and project permissions.

SKILLS

Operating Systems:

- Linux
- Windows

Scripting Language:

- Bash Scripting

Programming Languages:

- Python
- C

Cloud Platform:

- AWS
- AWS Services: IAM, EC2, EBS, EFS, S3, SNS, SES, VPC, NACL, Load Balancer, Autoscaling, DynamoDB, RDS, Lambda Function, CloudWatch, Route53, ESC, ECR, EKS

Version Control Tool:

- Git
- GitHub

Containerization:

- Docker

Orchestration Tool:

- Kubernetes, Helm Chart

Infrastructure as Code (IAC):

- Terraform

Continuous Integration/Continuous Deployment (CI/CD):

- Jenkins

ETL Tool:

- DataStage (Administrator)

EDUCATION

Bachelor of Engineering in Mechanical Engineering

*K. K. Wagh Institute of Engineering Education and Research,
Nashik*

July 2018 - June 2022

CGPA: 9.58

MINI - PROJECTS

Project Title: Kubernetes Project: 2048 Game Deployment on AWS EKS

Description:

Successfully completed an end-to-end deployment of the 2048 Game Application on AWS Elastic Kubernetes Service (EKS) using Fargate and an Application Load Balancer (ALB) Ingress Controller.

Implementation:

Deployed a 2048 Game Application on AWS EKS using Fargate and an ALB Ingress Controller. This involved setting up the necessary AWS CLI tools, creating an EKS cluster with Fargate profiles, managing KubeConfig, and configuring namespaces. I deployed the application as a Kubernetes deployment with an associated service and Ingress resource for traffic routing. Utilized Helm Charts to deploy the ALB Controller, ensuring seamless access to the deployed application

Project Title: S3 Static Website Hosting using Terraform

Description:

Developed a secure, scalable, and publicly accessible static website hosted on AWS S3 using Terraform.

Implementation:

Utilized Terraform to automate the creation and management of a secure and scalable S3 bucket for hosting a static website. Configured static website hosting, enabled bucket versioning for data protection, and allowed public read access. Created and attached a custom IAM policy to manage granular public access to bucket objects.

Project Title: CI/CD Pipeline for Two-Tier Flask Application Deployment

Objective:

Continuing Learning:

- DevOps Tools

CERTIFICATIONS

AWS Solution Architect – Associate

AZ-900: Microsoft Azure Fundamentals Certification

AWS Partner: Accreditation (Technical)

LANGUAGES

- English
- Hindi
- Marathi

Developed a robust CI/CD pipeline to automate the deployment of a two-tier Flask application on AWS instances, ensuring scalability and high availability.

Implementation:

Used Jenkins and Docker for automated container creation, ensuring consistent and reproducible environments. Employed Git and GitHub for version control, facilitating collaborative development. Utilized Docker Compose to seamlessly integrate and orchestrate frontend and backend services. Implemented a Docker volume to run .sql script inside mysql container, Created Docker network to enable efficient communication between the both services, enhancing the overall deployment process. Integrated AWS Load Balancer and Auto Scaling to enhance the project's high availability and scalability.

Project Title: Automated MySQL Backup and Storage to AWS S3 with Jenkins

Objective:

Implemented an automated solution using Jenkins to perform daily MySQL database backups and seamlessly upload them to an AWS S3 bucket. Incorporated mail plugins for Jenkins to notify users upon successful job completion

Implementation:

Created a Jenkins job to orchestrate the backup process, ensuring the daily execution of MySQL backups. Integrated AWS S3 for secure and efficient storage of the backups. Employed Jenkins mail plugins to notify users promptly when the backup job successfully completed.

Project Title: AWS Lambda Automation for S3 and DynamoDB Interactions

Objective:

Developed a robust AWS Lambda function to automate updates in a DynamoDB table in response to upload and delete operations on an associated S3 bucket. Incorporated Amazon SNS for seamless notification delivery.

Implementation:

Crafted an AWS Lambda function that dynamically updates entries in the DynamoDB table based on S3 bucket activities, ensuring synchronization. Integrated SNS for real-time notifications to relevant stakeholders. Streamlined upload and delete operations on the S3 bucket, enhancing the overall data management process.

Project Title: Kubernetes Cluster Setup and MySQL-Flask App Deployment

Objective:

Established a resilient Kubeadm cluster on dual EC2 instances, dedicating one to the Control plane and the other to the data plane. Installed Git and Docker on both instances.

Implementation:

Deployed MySQL and Flask app pods seamlessly through Kubernetes, incorporating persistent storage, ClusterIP, and NodePort Services for internal and external accessibility. Enhanced security with ConfigMap and Secret for

the provision of ENV variables, reinforcing the MySQL and Flask app deployments. This hands-on project provided valuable insights into Kubernetes cluster management, secure MySQL deployment, and the seamless integration of Flask applications for effective communication within the Kubernetes environment.