

Assignment Overview

Create a simple Go application that prints "Hello from Botgauge" at the /hello path. Develop and configure a GitHub Actions pipeline to build the application, containerize it, and push it to a container registry. Use Terraform to create an EKS cluster with necessary add-ons. Finally, create a pipeline to deploy the application to the EKS cluster using Helm or Kustomize.

Deliverables

1)Go Application

- A simple Go application that serves "Hello from Botgauge" at the /hello path.
- Dockerfile to containerize the application.

2)GitHub Actions Pipeline

- Pipeline to build the Go application.
- Steps to containerize the application and push it to a container registry (e.g., Docker Hub, ECR).

3)Terraform Configuration

- Terraform scripts to create an EKS cluster.
- Any necessary add-ons (e.g., IAM roles, VPC setup, security groups, node groups, etc.).

4)Deployment Pipeline

- GitHub Actions pipeline to deploy the application to the EKS cluster.
- Use Helm for packaging and deployment.

Bonus Points

Implement any other tools or practices you deem necessary to enhance the security and reliability of your application.

Once the assignment is complete, upload it to a github repository and add **happybotgauge** as a contributor to your repository.