

Accuknox Assignment by Ayush

Problem Statement 3

Step #1:

Create a GoLang Program which reflects the current date & time and host it on GitHub

Push that code to DockerHub

Git Repo - <https://github.com/AyushAggarwal1/Accuknox>

Docker Repo - <https://hub.docker.com/repository/docker/ayush1136/go-date-time-app>

Step #2:

Using the declarative approach to deploy the container with 2 replicas to k8s

Added Deployment.yaml and Service.yaml file for 2 replicas to k8s on github repo

The screenshot shows a Visual Studio Code editor window with the following components:

- Editor Tabs:** Dockerfile, deployment.yaml, main.go, and service.yaml (active).
- Service.yaml Content:**

```

! service.yaml
You, 1 minute ago | 1 author (You)
1  apiVersion: v1
2  kind: Service
3  metadata:
4    name: go-date-time-app-service
5  spec:
6    type: LoadBalancer
7    selector:
8      app: go-date-time-app
9    ports:
10   - protocol: TCP

```
- EXPLORER:** Shows the project structure for ACCUKNOX, including deployment.yaml, Dockerfile, go.mod, go.sum, main.go, and service.yaml.
- TERMINAL:** Displays the output of several kubectl commands:
 - `kubectl get deployments`: Shows 'go-date-time-app' with 2 replicas, ready 2/2, and available 2.
 - `kubectl get pods`: Shows two pods for 'go-date-time-app' in a 'Running' state.
 - `kubectl get services`: Shows 'go-date-time-app-service' as a 'LoadBalancer' and 'kubernetes' as a 'ClusterIP'.
 - `kubectl get nodes -o wide`: Shows the cluster nodes 'minikube' and 'ft-standard-WSL2'.
- STATUS BAR:** Indicates the current branch is 'master' and shows various tool icons like Launchpad, Search Error, and AI Code Chat.