Nama : M. Muammar

project github : https://github.com/aamdsam/sltr-devop-test

1. Simple Coding menggunakan express js

### 2. Container Docker

- Docker build image manually

```
## Dockerfile X #* Dockerfile X (I) pockerfile X (I) pock
```

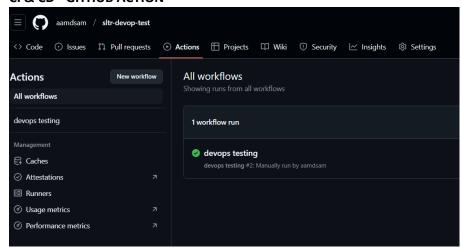
- Docker compose run port 8000

```
X Dockerfile
                                                    % deploy.yml 2
JS server.js
                                  {} package.json
                                                                        docker-compose.yaml X
docker-compose.yaml
       version: '3.8'
        services:
         welcome-app:
            build: .
            ports:
             - "8000:5000"
              - NODE ENV=production
            restart: unless-stopped
 10
            networks:
             - welcome-network
       networks:
         welcome-network:
           driver: bridge
TERMINAL
           PROBLEMS 2 OUTPUT DEBUG CONSOLE
 => CACHED [builder 3/5] COPY package.json package-lock.json ./
 => [builder 5/5] COPY . .
=> [stage-1 3/3] COPY --from=builder /app /app
 => exporting to image
 => => exporting layers
 => => writing image sha256:1749df8c799ebff3383bfbd05dfe4e2a34a5eb4e757f0bd53ed6190cf1b83f0f
 => => naming to docker.io/local-testing/welcome
View build details: <a href="docker-desktop://dashboard/build/desktop-linux/desktop-linux/a2oc16egrb8vk">docker-desktop://dashboard/build/desktop-linux/desktop-linux/a2oc16egrb8vk</a>
What's next:
    View a summary of image vulnerabilities and recommendations → docker scout quickview
PS D:\Projects\others\test\sltr-devops-test> docker-compose up
time="2025-02-22T08:23:30+07:00" level=warning msg="D:\\Projects\\others\\test\\sltr-devops-te
nored, please remove it to avoid potential confusion"
[+] Running 1/0

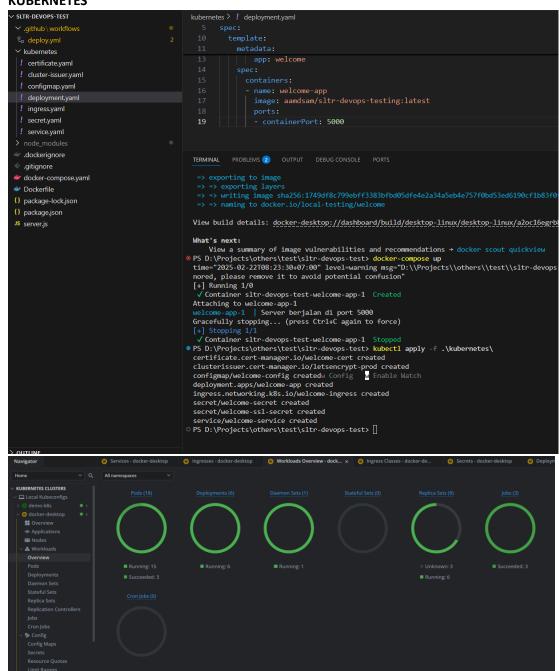
√ Container sltr-devops-test-welcome-app-1 Created

Attaching to welcome-app-1
welcome-app-1 | Server berjalan di port 5000
```

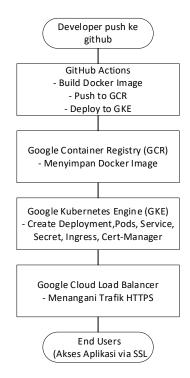
## 3. CI & CD - GITHUB ACTION



#### 4. KUBERNETES



#### 5. CLOUD INFRA - GCP



# 6. Cara Deploy Welcome Test App di Kubernetes (Lokal)

- Pastikan aplikasi seperti git, docker dan Kubernetes sudah terinstall di local PC
- Clone Repository dari GitHub: https://github.com/aamdsam/sltr-devop-test.git
- Masuk ke di rektori hasil clone atau directory sltr-devops-test
- Jalankan perintah kubectl apply untuk deploy deployment, service, secret, configmap,ingress dan ssl issuer nya dengan cara: kubectl apply -f kubernetes/
- Pastikan semua deployment, pod, service, secret, configmap, ingress, dan nginx ingress sudah ada dan status running atau tidak ada error
- Apabila nginx-controller belum ada bisa diinstall bisa dibuat menggunakan helm ingressngix atau instal manual dengan command kubectl seperti ini: kubectl apply -f
  https://raw.githubusercontent.com/kubernetes/ingressnginx/main/deploy/static/provider/cloud/deploy.yaml
- Tambahkan domain local di etc host berikut ini: 127.0.0.1 welcome.local
- Akses domain local dengan url: <a href="https://welcome.local/welcome/test">https://welcome.local/welcome</a> atau <a href="https://welcome.local/welcome">https://welcome.local/welcome</a>