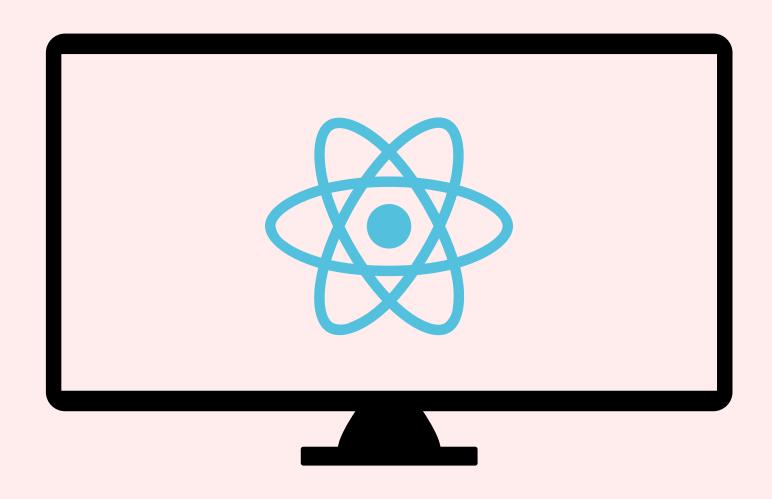
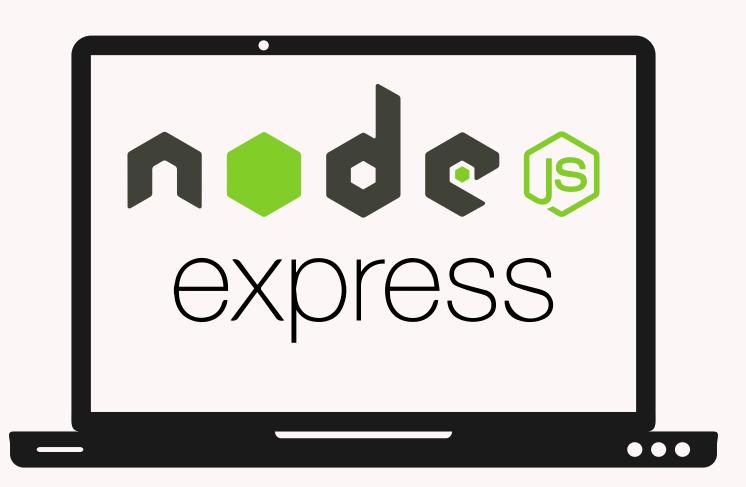


INSTAGRAM CLONE

Frontend



Backend



Continuous Integration

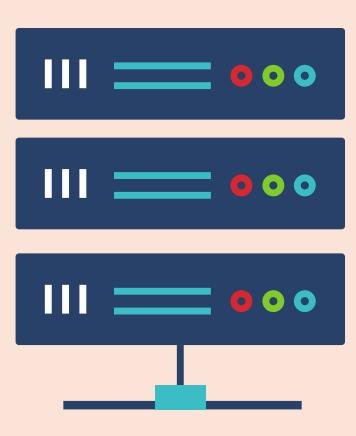
Build

Test

Merge



Backend



Build

```
- name: Set ENV file
    working-directory: ./Backend
    run: echo ${{ secrets.ENV_PORT }} >> .env
    | echo ${{ secrets.ENV_DB_USERNAME }} >> .env
    | echo ${{ secrets.ENV_DB_PASSWORD }} >> .env
    | echo ${{ secrets.ENV_DB_NAME }} >> .env
    | echo ${{ secrets.ENV_DB_NAME }} >> .env
    | echo ${{ secrets.ENV_TOKEN_KEY }} >> .env
```

Set ENV File สำหรับเชื่อมการทำงานกับ Database

Build & Run

```
    name: Install node modules for backend and start server
        working-directory: ./Backend
        run: |
             ls
              npm install
              npm start &
```

ติดตั้ง node modules และทำการเปิดทำงาน Server

Test



ทำการรันคำสั่ง npm test เพื่อทดสอบระบบ Back-end ตาม Test case ต่างๆ ที่เขียนไว้ ไว้ใน Directory "Back-end "

Test Complete

```
- Event: push
- Repo: 11SF/ig-clone
- Ref: refs/heads/dev
- Workflow: Ig Clone Project CICD Pipeline
- Author: 11SF
- Committer: 11SF
- Pusher: 11SF
- Commit URL: https://github.com/11SF/ig-clone/commit/a79c05f6d1fc9753bbdec86dab7646c3cbace308
- Commit Message: 5

(Backend) Test Succeeded!

Severity: Informational • 08/12/2021
```

Notify to team chat

Push to Docker Hub

```
- name: Build and push to DockerHub
   if: success()
   uses: docker/build-push-action@v2
   with:
      context: ./Backend
      push: true
      tags: llsf/ig_clone_backend:latest
```



Frontend



Build

```
- name: Install node modules for frontend
    working-directory: ./Frontend
    run: |
        npm install
```

ติดตั้ง node modules

Test

```
    name: Run test frontend
        working-directory: ./Frontend
        run: npm test
```

ทำการรันคำสั่ง npm test เพื่อทดสอบการทำงาน ของ Front-end ตาม Test case ต่างๆ

Test Complete

- Event: push
- Repo: 11SF/ig-clone
- Ref: refs/heads/dev
- Workflow: Ig Clone Project CICD Pipeline
- Author: 11SF
- Committer: 11SF
- Pusher: 11SF
- Pusher: 11SF
- Commit URL: https://github.com/11SF/ig-clone/commit/a79c05f6d1fc9753bbdec86dab7646c3cbace308
- Commit Message: 5

(Frontend) Test Succeeded!

Severity: Informational • 08/12/2021

Notify to team chat

Push to Docker Hub

```
- name: Build and push to DockerHub
   if: success()
   uses: docker/build-push-action@v2
   with:
      context: ./Frontend
   push: true
   tags: llsf/ig_clone_frontend:latest
```

Continuous Deployment

ถ้ากระบวนการทำ CI ไม่ผ่าน จะไม่ทำในส่วนนี้



Deploy to AWS EC2



Create New EC2

```
aws ec2 run-instances
--image-id ami-04902260ca3d33422
--instance-type t2.micro
--key-name $KEY_PAIR_NAME
--security-group-ids $SECGROUP_ID
--user-data file://user_data_script.txt
```

user_data_script.txt

```
#!/bin/bash
sudo yum -y update

sudo amazon-linux-extras install docker -y
sudo service docker start

sudo gpasswd -a ec2-user docker
newgrp docker

docker run -t -d -p 80:3000 11sf/ig_clone_frontend
docker run -t -d -p 3001:3001 11sf/ig_clone_backend
```

Notify to Team chat

- Event: push

- Repo: 11SF/ig-clone

- Ref: refs/heads/dev

- Workflow: Ig Clone Project CICD Pipeline

- Author: 11SF

- Committer: 11SF

- Pusher: 11SF

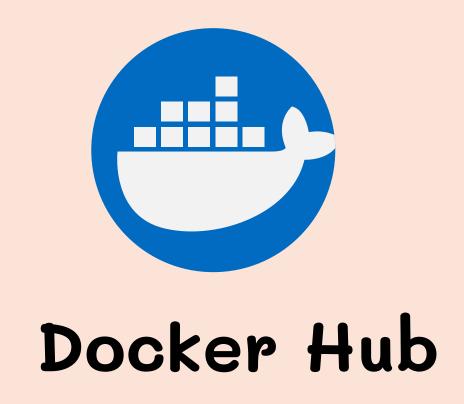
- Commit URL: https://github.com/11SF/ig-

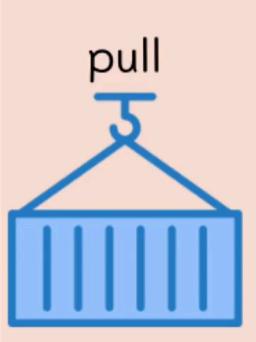
clone/commit/a79c05f6d1fc9753bbdec86dab7646c3cbace308

- Commit Message: 5

Deploy to AWS Success!!

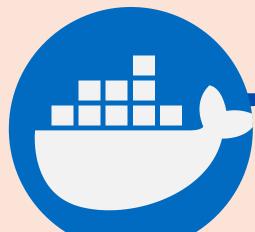
Severity: Informational • 08/12/2021



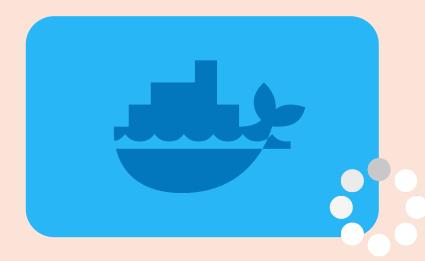


ig_clone_frontend
ig_clone_backend

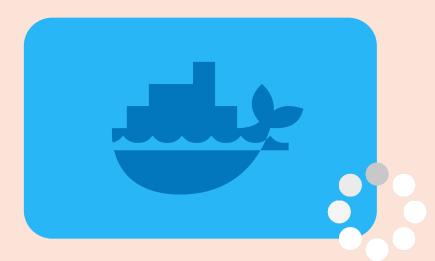




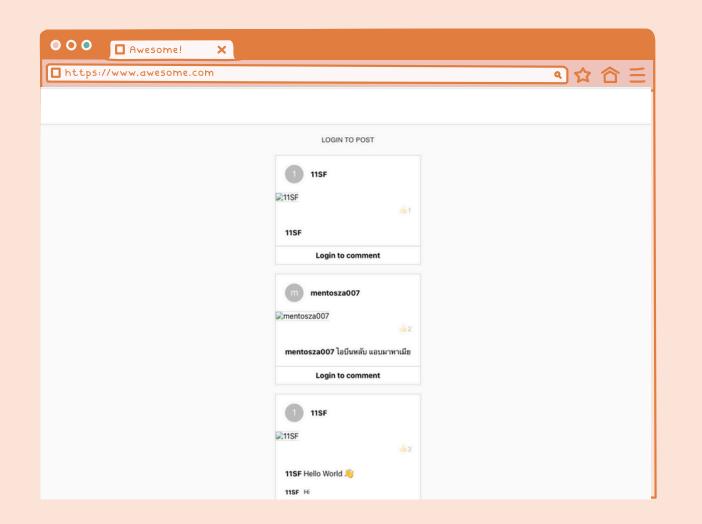
Docker



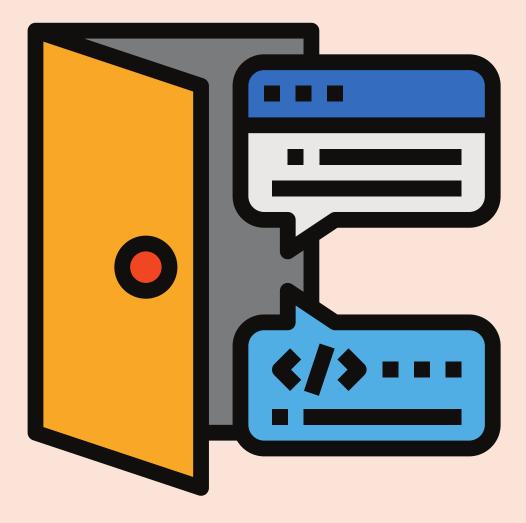
run ig-clone-frontend on port 80:3000



run ig-clone-backend on port 3001:3001







Frontend of ig-clone

running on port 80



running on port 3001



เวลาที่ใช้ในการทำ Manual Deploy คือ 11 นาที่ 30 วินาที่

เวลาที่ใช้ในการทำ CI/CD คือ 6 - 8 นาที