AI - FastAPI

젠킨스 FastAPI용 pipeline

```
pipeline {
    agent any
    stages {
        stage('github clone') {
            steps {
                git branch: '배포할 브랜치명', credentialsId: 'jenkins_token', url: '깃 래포 https 주소'
            }
        }
        stage('Deployment') {
            steps {
                sshagent(credentials: ['ssh_key']) {
                    sh '''
                        ssh -o StrictHostKeyChecking=no ubuntu@ec2_public_ip
                        scp -r /var/jenkins_home/workspace/배포하는_젠킨스_item_이름/FastAPI_프로젝트_폴더명/ ubuntu@ec2_public_ip:/home/ubunt
                        ssh -t ubuntu@ec2_public_ip ./deploy_ai.sh
                    '''
                }
            }
        }
    }
}
```

/home/ubuntu 에서

```
mkdir Ai
```

폴더 만든 다음에

/home/ubuntu/deploy_ai.sh

```
cd Ai
sudo docker compose down
sudo docker compose up -d --build
yes | sudo docker system prune
```

생성한 뒤

```
sudo chmod -R 755 deploy_ai.sh
```

권한부여 하고,

/home/ubuntu/Ai/Dockerfile

```
FROM python:3.8

COPY ./requirements.txt /fastApiProject/requirements.txt

COPY ./.env /fastApiProject/.env

WORKDIR /fastApiProject

RUN pip install --no-cache-dir --upgrade -r /fastApiProject/requirements.txt

# 이 코드
COPY ./fastApiProject /fastApiProject
```

```
CMD ["uvicorn", "main:app", "--host", "0.0.0.0", "--port", "8000"]
```

/home/ubuntu/Ai/docker-compose.yml

```
version: "3"

services:
        web:
                build:
                        context: .
                        dockerfile: Dockerfile
                image: mt-ai
                container_name: mt-ai
                ports:
                        - "8000:8000"
```

/home/ubuntu/Ai/requirements.txt

```
fastapi
uvicorn
openai
clarifai
nbformat
nbclient
nbconvert
python-dotenv
boto3
pydantic
pydub
```

이건 Dockerfile에서 프로젝트 빌드하면서 필요한 라이브러리 설치할 수 있도록 적어둔거다.

```
...

COPY ./requirements.txt /fastApiProject/requirements.txt

RUN pip install --no-cache-dir --upgrade -r /fastApiProject/requirements.txt

...
```

이 부분임!

/home/ubuntu/Ai/.env

```
CLARIFAI_API_KEY=
CHATGPT_API_KEY=
ELEVENLABS_API_KEY=

S3_BUCKET=
CREDENTIALS_ACCESS_KEY=
CREDENTIALS_SECRET_KEY=
S3_URL=
```

이건 환경변수 파일.

gitignore되어있어서 안올라가있으니까 서버에만 올려둔거임

일단 젠킨스는 잘 된다.

Stage View

	github clone	Deployment
Average stage times: (Average full run time: ~8s)	407ms	6s
#18 9월 15일 24:07 No Changes	344ms	3s
#17 9월 15일 24:06 No Changes	388ms	4s
#16 9월 15일 24:03 No Changes	418ms	4s
#15 9월 15일 24:01 No Changes	415ms	3s
#14 9월 15일 24:00 No Changes	420ms	4s
#13 9월 14일 23:58 No Changes	341ms	3s

```
ubuntu@ip-172-26-6-57:~/Ai$ ll
total 24
drwxrwxr-x 3 ubuntu ubuntu 4096 Sep 14 15:07 ./
drwxr-xr-x 8 ubuntu ubuntu 4096 Sep 14 15:06 ../
-rw-r--r-- 1 root   root    244 Sep 14 15:07 Dockerfile
-rw-r--r-- 1 root   root    270 Sep 14 14:15 docker-compose.yml
drwxr-xr-x 4 ubuntu ubuntu 4096 Sep 14 14:40 fastApiProject/
-rw-r--r-- 1 root   root     32 Sep 14 13:54 requirements.txt
ubuntu@ip-172-26-6-57:~/Ai$ cat requirements.txt
fastapi
uvicorn
openai
clarifai
ubuntu@ip-172-26-6-57:~/Ai$ cd fa
-bash: cd: fa: No such file or directory
ubuntu@ip-172-26-6-57:~/Ai$ cd fastApiProject/
ubuntu@ip-172-26-6-57:~/Ai/fastApiProject$ ll
total 28
drwxr-xr-x 4 ubuntu ubuntu 4096 Sep 14 14:40 ./
drwxrwxr-x 3 ubuntu ubuntu 4096 Sep 14 15:07 ../
-rw-r--r-- 1 ubuntu ubuntu   10 Sep 14 15:07 .gitignore
drwxr-xr-x 2 ubuntu ubuntu 4096 Sep 14 14:40 __pycache__/
drwxr-xr-x 2 ubuntu ubuntu 4096 Sep 14 14:40 ipynb/
-rw-r--r-- 1 ubuntu ubuntu 1680 Sep 14 15:07 main.py
-rw-r--r-- 1 ubuntu ubuntu   91 Sep 14 15:07 test_main.http
ubuntu@ip-172-26-6-57:~/Ai/fastApiProject$
```

저 fastApiProject가 우리 깃 레포에 올라와있는 디렉토리 명이다.

[Create] : FastAPI 생성 230914 2331
hyungseok Lee authored just now

release-ai ⌄   S09P22B205 /   + ⌄

Name	Last commit
🗀 fastApiProject	[Create] : FastAPI 생성 230914 2331

[Create] : FastAPI 생성 230914 2331
hyungseok Lee authored just now

release-ai ⌄   S09P22B205 / fastApiProject /   + ⌄

Name	Last commit
..	
🗀 __pycache__	[Create] : FastAPI 생성 230914 2331
🗀 ipynb	[Create] : FastAPI 생성 230914 2331
◈ .gitignore	[Create] : FastAPI 생성 230914 2331
🐍 main.py	[Create] : FastAPI 생성 230914 2331
🌐 test_main.http	[Create] : FastAPI 생성 230914 2331