

## 포팅 메뉴얼

사용 도구 개발 도구 외부 서비스 개발 환경 환경 변수 CI/CD 빌드 및 실행

## 사용 도구

- 이슈 관리 : Jira
   형상 관리 : GitLab
- 커뮤니케이션 : Notion, MatterMost
- 디자인 : Figma
   벨드 도구 : Jenkins

### 개발 도구

- Visual Studio Code : ver 1.90.2
- IntelliJ IDEA Ultimate : 2024.1.4
- Pycharm : 2024.1.6
- DataGrip: 2024.1.4

### 외부 서비스

Naver OAuth

## 개발 환경

Node.js	20.15.0
React	18.3.1 (버전18)
Vite	5.4.1
PWA	0.20.5

Java	openjdk 17.0.12 2024-07-16
Spring Boot	3.2.7
Python	3.10
Python library	requirements.txt 참조
Redis	7.4.0
MySQL	Ver 9.0.1 for Linux on x86_64

AWS S3 AWS EC2

Docker	27.1.1
Ubuntu	20.04.6 LTS
Jenkins	2.452.3

### 환경 변수

.env (중요 정보 생략)

## COMMON

JMT\_SECRET\_KEY=bbfdbnrtsnbdfgntreyteryertyertreyertyasdasdasfdgddfndfgnrgdfndfgnrtntrnrgfdhrdfgjrdjhdbnfsnrdthrtsgdfshfvbf

JWT\_SALT-rasdfasdasfsdfsafgdfghfgjcertytyreyerertyertyrtydfasdfdzsdsdtytrfuughkijbpliupibouyihlasddassdasfdfxgfdghdfgfdgfdhfgchfgchfgchfgchfghfghfgjghjhgjgheyertytertyytre

JWT\_LSSUER=fooding

AWS\_S3\_ACCESS\_KEY=
AWS\_S3\_SECRET\_KEY=
AWS\_S3\_BUCKET\_REGION=
AWS\_S3\_BUCKET\_NAME=

NAVER\_SECRET\_KEY= NAVER\_LOGIN\_URL=

## LocalNost
LOCAL\_MYSQL\_URL=jdbc:mysql://localhost:3306/fooding?serverYimezone=UTC&useUnicode=yes&characterEncoding=UTF-8
LOCAL\_MYSQL\_PASSW0RD=11111111

JWT\_ACCESS\_TOKEN\_EXPIRETIME=720000000 JWT\_REFRESH\_TOKEN\_EXPIRETIME=1440000000

## DEV
DEV\_MYSQL\_URL=jdbc:mysql://mysql:3306/fooding?serverTimezone=UTC&useUnicode=yes&characterEncoding=UTF-8
DEV\_MYSQL\_USER=fooding\_admin
DEV\_MYSQL\_PASSWORD=fooding1234

DEV\_JWT\_ACCESS\_TOKEN\_EXPIRETIME=720000000 DEV\_JWT\_REFRESH\_TOKEN\_EXPIRETIME=1440000000

## FCM
FCM\_TYPE=service\_account
FCM\_PROJECT\_ID=
FCM\_PRIVATE\_KEY\_ID=
FCM\_PRIVATE\_KEY\_ID=
FCM\_CLIENT\_ID=
FCM\_CLIENT\_ID=
FCM\_AUTH\_URI=
FCM\_AUTH\_URI=
FCM\_AUTH\_DROVIDER\_CERT\_URL=
FCM\_CLIENT\_CERT\_URL=
FCM\_CLIENT\_CERT\_URL=
FCM\_CLIENT\_CERT\_URL=
FCM\_CUNTVERSE\_DOMAIN=

## CI/CD

# jenkins 기본 plugin 외에 추가 설치

### SSH Agent Plugin

Docker plugin

credentials 설정

1

## Credentials

Т	P S	Store ↓	Domain	ID	Name
	Q S	System	(global)	GITLAB_API_TOKEN	GitLab API token
	<u>Q</u> s	System	(global)	DOCKER_REPO_API	simhani1/*****
	<u>Q</u> s	System	(global)	DOCKER_REPO_FRONT	simhani1/*****
	<u>Q</u> S	System	(global)	EC2_SERVER_IP	EC2_SERVER_IP
8	<u>Q</u> s	System	(global)	SSH_CREDENTIAL	ubuntu
	<u> </u>	System	(global)	simhani1	simhani1@gmail.com/*****
	<u>Q</u> S	System	(global)	DOCKER_USER	simhani1/*****
	<u>Q</u> s	System	(global)	BACK_ENV	.env
	<u>Q</u> S	System	(global)	FRONT_ENV	.env

- GitLab Token 등록
- Docker hub 로그인 정보 등록
- Docker image push를 위한 repo 정보 등록
- SSH 접속을 위해 EC2 IP 정보와 .pem키 정보 등록
- .env 파일 등록

#### backend pipeline

```
pipeline {
   agent any
   environment {
     ENV_FILE = credentials('BACK_ENV')
   EMV_Fit= -...
}
stages {
stage'(bit Clone') {
steps {
git branch: 'dev-back', credentialsId: 'simhanil', url: 'https://lab.ssafy.com/s11-bigdata-dist-sub1/S11P21A608.git'
...
           post {
    failure {
        echo 'Repository clone failure !'
    }
}
              success {
    echo 'Repository clone success !'
         }
       }
stage('Prepare .env File') {
steps {
    script {
        writeFile file: './backend/api/.env', text: "${ENV_FILE}"
        sh 'cat ./backend/api/.env'
          }
      }
        echo 'API project build failure !'

success {

echo 'API project build success !'
}
}
       }
// Docker
stage('Docker Hub Login') {
          steps {
    withCredentials([usernamePassword(credentialsid: 'DOCKER_USERNAME')]) {
        sh 'echo "SDOCKER_PASSWORD" | docker login -u $DOCKER_USERNAME --password-stdin'
    }
}
       }
stage('Build Docker Image for Backend') {
steps {
    script {
        docker.build("simhanil/fooding_api:latest", "./backend/api")
}
       }
stage('Tag and Push Docker Images') {
```

#### frontend pipeline

```
ironment {
ENV_FILE = credentials('FRONT_ENV') // 프론트엔드용 환경 변수 파일
                 stage('Git Clone') {
                        steps {
    git branch: 'dev-front', credentialsId: 'simhani1', url: 'https://lab.ssafy.com/s11-bigdata-dist-sub1/S11P21A608.git'
                        post {
    failure {
        echo 'Repository clone failure !'
    }
                               }
success {
    echo 'Repository clone success !'
                     }
                 }
stage('Prepare .env File') {
                        script {
sh 'cat SENV_FILE_PATH > ./frontend/.env'
sh 'cat ./frontend/.env' // .env 파일 내용 출력 확인
}

// Docker
stage('Docker Hub Login') {
    steps {
        withCredentials([usernamePassword(credentialsId: 'DOCKER_USER', passwordVariable: 'DOCKER_PASSWORD', usernameVariable: 'DOCKER_USERNAME')]) {
            sh 'echo "$DOCKER_PASSWORD" | docker login -u $DOCKER_USERNAME --password-stdin'
        }
    }
                        steps {
    script {
        docker.build("simhani1/fooding_front:latest", "./frontend")

                }
stage('Tag and Push Docker Image') {
steps {
script {
script {
sh'docker tag simhani1/fooding_front:latest simhani1/fooding_front:latest'
sh'docker push simhani1/fooding_front:latest'
}
                 script {
    sh 'ssh -o StrictHostKeyChecking=no ubuntu@$IP "cd /home/ubuntu/docker_compose_yml && sudo ./front_deploy.sh"'
            } } }
         }

// MatterMost Noti

post {
success {
    script {
    def Author_ID = sh(script: "git show -s --pretty=%an", returnStdout: true).trim()
    def Author_Name = sh(script: "git show -s --pretty=%ae", returnStdout: true).trim()
    mattermostSend (color: 'good',
    message: "프론트 배포 성공: $(env.JOB_NAME) #${env.BUILD_NUMBER} \n(<${env.BUILD_URL}|Details>)",
    endpoint: 'https://meeting.ssafy.com/hooks/den73uqbhbfdjjjm7Sarypqcoh',
    channel: 'a5386da34de149433f858178dce5587'
)
               }
failure {
    script {
        def Author_ID = sh(script: "git show -s --pretty=Nan", returnStdout: true).trim()
        def Author_Name = sh(script: "git show -s --pretty=Nae", returnStdout: true).trim()
        mattermostSend (color: 'danger',
        message: "PEE # EM Z#Im S {env.JOB_JAME} #S{env.BUILD_NUMBER\n(<${env.BUILD_LUMLE}\n()CHL\)} [Details>)",
        endpoint: 'https://meeting.ssafy.com/hooks/den73uqbhbfdjjjm75arypqcoh',
        channel: 'da5386da344de149433f8S8178dce5587'
)
              }
}
```

### flask pipelin

```
pipeline {
    apent any
    stages (sit Clone') {
        steps {
            git branch: 'dev-data', credentialsId: 'simhanii', url: 'https://lab.ssafy.com/sli-bigdata-dist-subl/SilP21A608.git'
        }
        post {
            failure {
                 echo 'Repository clone failure !'
            }
            success {
                 echo 'Repository clone success !'
            }
        }
    }
}
// Docker
```

#### 빌드 및 실행

#### docker-compose.backend.yml

```
redis:
image: redis: #ZUPPORT |
image: redis #ZUPPORT |
image: redis: #
```

## docker-compose.frontend.yml

#### docekr-compose.falsk.yml

#### api\_deploy.sh

```
#!/bin/bash

# Stop and remove existing containers
echo "Stopping and removing existing Docker Compose containers..."
docker compose -f docker-compos.backend.yml down
echo "Existing containers stopped and removed."

# Remove old Docker images
sudo docker rim isimhanil/fooding_api:latest

# Pull new Docker images
echo "Pulling mew Docker images..."
sudo docker compose -f docker-compose.backend.yml pull

# Start new backend and frontend containers
echo "Starting frontend and backend containers..."
sudo docker compose -f docker-compose.backend.yml up --build --force-recreate -d
echo "Deployment complete. All containers are now running with the latest images."
```

#### front\_deploy.sh

```
#//bin/bash

# Stop and remove existing containers
echo "Stopping and removing existing bocker Compose containers..."
docker compose -f docker-compose.frontend.yml down
echo "Existing containers stopped and removed."

# Remove old bocker images
sudo docker rmis simbanii/fooding_front:latest

# Pull new bocker images
echo "Pulling new bocker images..."
sudo docker compose -f docker-compose.frontend.yml pull

# Start new backend and frontend containers
echo "Starting frontend and backend containers..."
sudo docker compose -f docker-compose.frontend.yml up --build --force-recreate -d
echo "Deployment complete. All containers are now running with the latest images."
```

#### flask\_deploy.sh

```
#!/bin/bash

# Stop and remove existing containers
echo "Stopping and removing existing Docker Compose containers..."
docker compose - f docker-compose.flask.yml down

echo "Existing containers stopped and removed."

# Remove old Docker images
echo "Removing old Docker images..."
sudo docker rmi simhanil/fooding.flask:latest

# Pull new Docker images
echo "Pulling new Docker images..."
sudo docker compose -f docker-compose.flask.yml pull

# Start new Flask container
sudo docker compose -f docker-compose.flask.yml up --build --force-recreate -d
echo "Deployment complete. Flask container is now running with the latest image."
```

### nginx.conf

```
location ^~/.well-innem(
    allow all;
    root /war/awAntral;
    default.type text/plain;
}

location /api/va( {
    prov_set_header roots bhost;
    prov_set_header roots bost;
    prov_set_header roots stockes;
    prov_set_header roots boots;
    prov_set_header roots stockes;
}

location /defauly pinkins {
    prov_set_header roots stockes;
}

location /default pinkins {
    prov_set_header roots stockes;
}

location / (index index index hea;
    prov_set_header roots stockes;
}

location / (index index index hea;
    prov_set_header roots stockes;
}

location / (index index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index hea;
    prov_set_header roots stockes;
}

location / (index index index index
```