포팅 매뉴얼

버전

FrontEnd

node: 16.13.0npm: 8.1.0

BackEnd

o java 11

o spring

spring boot: 2.7.10

gradle: 6.8.3

Server 설정

▼ Docker

1. Docker 설치

sudo apt-get update

sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

▼ MariaDB

1. MaraiDB Docker 설치

sudo docker pull maraidb/server:latest

2. 컨테이너 생성 및 실행

 $sudo\ docker\ run\ --name\ mariadb\ -e\ MARIADB_ROOT_PASSWPRD=\{password\}\ -p\ 3306:3306\ -d\ mariadb/server:latest\}$

▼ Nginx & SSL

1. Nginx 설치

sudo apt-get install nginx

2. Nginx 중지

sudo systemctl stop nginx

3. Let's Encrypt 설치

sudo apt-get install letsencrypt

4. 인증서 적용

sudo letsencrypt certonly --standalone -d [도메인]

5. Nginx conf 파일

```
cd /etc/nginx/sites-available
sudo vi config.conf
```

```
server {
        location /{
               proxy_pass http://localhost:3000;
        }
        location /api{
                proxy_pass http://localhost:8080/api;
        location /flask{
               proxy_pass http://localhost:5000/flask;
        listen 443 ssl;
        ssl_certificate /etc/letsencrypt/live/[도메인]/fullchain.pem;
        ssl_certificate_key /etc/letsencrypt/live/[도메인]/privkey.pem;
{\tt server}\ \{
        if ($host = [도메인]) {
   return 301 https://$host$request_uri;
          listen 80;
           server_name [도메인];
       return 404;
}
```

6. 파일 연동

```
sudo ln -s /etc/nginx/sites-available/config.conf /etc/nginx/sites-enabled/config.conf
```

7. Nginx 재시작

```
sudo systemctl restart nginx
```

▼ Jenkins

1. Jenkins 설치

```
sudo docker pull jenkins/jenkins:latest
```

2. jenkins 실행

```
sudo docker run -d -p [포트 번호]:8080 -v /jenkins:/var/jenkins_home -v /var/run/docker.sock:/var/run/docker.sock --name jenkins
```

- 3. https://{도메인}:{포트 번호} 접속
- ▼ Backend .yml 파일

```
spring:
datasource:
url: jdbc:mariadb:/[도메인]:3306/eyecan
username: root
password: [password]
driver-class-name: org.mariadb.jdbc.Driver
jpa:
open-in-view: false
generate-ddl: true
hibernate:
ddl-auto: update
properties:
hibernate:
```

```
show_sql: true
      format_sql: true
     use_sql_comments: true
  servlet:
   multipart:
     max-request-size: 10MB
     max-file-size: 10MB
  logging:
    level:
     root: trace
     org:
       hibernate:
         type:
           descriptor:
  security:
   oauth2:
     client:
       registration:
         kakao:
           client-id: [client-id]
            client-secret: [client-secret]
            scope:
             - profile_nickname
              - account_email
            redirect-uri: "https:/[도메인]/api/login/oauth2/code/kakao"
           authorization-grant-type: authorization_code
           client-name: Kakao
           client-authentication-method: POST
       provider:
         kakao:
           authorization-uri: https://kauth.kakao.com/oauth/authorize
           token-uri: https://kauth.kakao.com/oauth/token
            user-info-uri: https://kapi.kakao.com/v2/user/me
            user-name-attribute: id
server:
 port: 8080
  servlet:
   contextPath: /api
  aws:
   credentials:
     access-key: [access key value]
     secret-key: [secret key value]
   s3:
    bucket: eye-can-speak
     dirName: upload
   region:
     static: ap-northeast-2
   stack:
     auto: false
  secretKey: [jwt secretKey]
  refreshKey: [jwt refreshKey]
```

Backend 배포

▼ Spring Boot Jenkins pipeline

```
pipeline{
    environment{
        registry="{user name}/{repository}:{tag}"
         registry {\tt Credential='\{docker\ hub\ credential\}'}
        dockerImage=''
    }
    agent any
    stages{
        stage('gitlab clone'){
             steps{
                 git branch: 'BE',
                 credentialsId: '{gitlab credential}',
url: 'https://lab.ssafy.com/s08-final/S08P31D204'
            }
         stage('build'){
            steps{
sh "cp /var/jenkins_home/property/*.yml /var/jenkins_home/workspace/Back/backend/ecs-spring/src/main/resources"
                 dir('backend/ecs-spring'){
```

```
chmod +x ./gradlew
                   ./gradlew clean build
              }
           }
        stage('docker build'){
               dir('backend/ecs-spring'){
                  script{
                      dockerImage=docker.build registry
        stage('docker image push'){
           steps{
               script{
                  docker.withRegistry('', registryCredential){
                      dockerImage.push()
              }
           }
       stage('ssh-server'){
           steps{
               sshagent(credentials: ['{ssh credential}']){
                   sh'''
                   ssh -o StrictHostKeyChecking=no ubuntu@{ip} "sudo docker run --name ecs_back -d -p 8080:8080 {docker image
              }
          }
}
```

▼ Fastapi Jenkins pipeline

```
pipeline{
       registry="{user name}/{repository}:{tag}"
        registryCredential='{docker hub credential}'
       dockerImage=''
   }
    agent any
    stages{
        stage('gitlab clone'){
           steps{
               git branch: 'AI2',
               credentialsId: '{gitlab credential}',
url: 'https://lab.ssafy.com/s08-final/S08P31D204'
           }
        stage('docker build'){
            steps{
               dir('backend/ecs-fastapi'){
                   script{
                       dockerImage=docker.build registry
        stage('docker image push'){
            steps{
              script{
                   docker.withRegistry('', registryCredential){
                       dockerImage.push()
               }
           }
        stage('ssh-server'){
            steps{
               sshagent(credentials: ['{ssh credential}']){
                    sh''
                   ssh -o StrictHostKeyChecking=no ubuntu@{ip} "sudo docker run --name ecs_fastapi -d -p 5000:5000 {docker im
               }
           }
 }
```

Frontend 배포

▼ React Jenkins pipeline

```
pipeline{
   environment{
       registry="{user name}/{repository}:{tag}"
        registryCredential='{docker hub credential}'
        dockerImage=''
    agent any
    stages{
        stage('git clone'){
           steps{
               git branch: 'FE',
credentialsId: '{gitlab credential}',
                url: 'https://lab.ssafy.com/s08-final/S08P31D204.git'
        stage('build'){
           steps{
               dir('frontend/ecs-react'){
                      npm install
                   CI='' npm run build
               }
           }
        stage('docker build'){
            steps{
               dir('frontend/ecs-react'){
                   script{
                       dockerImage=docker.build registry
                   }
               }
        stage('docker image push'){
           steps{
               script{
                   docker.withRegistry('', registryCredential){
                       dockerImage.push()
               }
           }
        stage('ssh-server'){
           steps{
               sshagent(credentials: ['{ssh credential}']){
                   ssh -o StrictHostKeyChecking=no ubuntu@{ip} "sudo docker run --name ecs_front -d -p 3000:80 {docker image}
               }
          }
      }
  }
```

외부 API

- 소셜 로그인
 - 。 KaKao: Oauth 기반 소셜 로그인 API 제공
 - https://developers.kakao.com