

포팅 메뉴얼

목차

<u>1. 개발 환경</u>

- 1-1. 프론트엔드 (Android)
- 1-2. 백엔드 (Spring Boot)
- 1-3. AI
- 1-4. 서버 및 인프라
- 2. 설정 파일 및 환경 변수 정보
 - 2-1. 프론트엔드 (local.properties)
 - 2-2. 백엔드 (application.yml)

3. EC2 서버 구축

- 3-1. 전체 프로젝트 구조
- 3-2. Docker
- 3-3. Jenkins
- 3-4. MySQL
- 3-5. Redis
- 3-6. **NGINX**

1. 개발 환경

1-1. 프론트엔드 (Android)

- Android Studio (Iguana 2023.2.1 RC 2)
- Kotlin (1.9.0)
- JDK (OpenJDK 17)

1-2. 백엔드 (Spring Boot)

- IntelliJ (2023.3.4)
- JDK (OpenJDK 21)
- Spring Boot (3.2.3)
- MySQL (8.0.36)
- Redis (7.2.4)

1-3. AI

- Python (3.9.5)
- Uvicorn (0.11.3)
- Fast API

1-4. 서버 및 인프라

- Server (Ubuntu 20.04.6 LTS)
- Docker (25.0.4)
- Jenkins (2.430-jdk21)

2. 설정 파일 및 환경 변수 설정

2-1. 프론트엔드 (local.properties)

2-2. 백엔드 (application.yml)

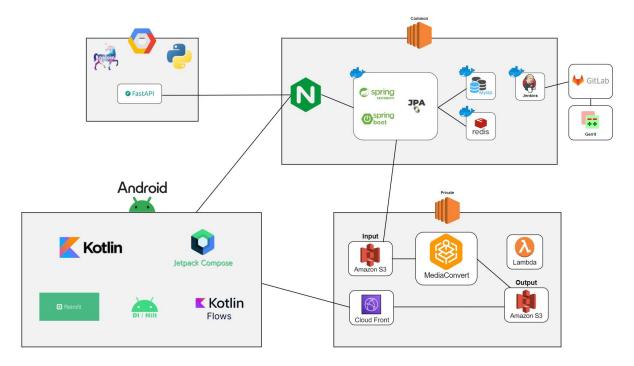
```
spring:
 servlet:
   multipart:
     max-file-size: 5MB
     max-request-size: 5MB
 datasource:
   driver-class-name: com.mysql.cj.jdbc.Driver
ENC(c2XaD9tTX+MwEYL2ZQtN6mgwrbYjjN72fa0VDYB9fywemrhWlzF7RRmTpMX/tyYzA+dfWo0OG
TLj6U0nrw3CZ8SG1E5c0aHf0SiXEpN4R/UYKR1x2XhFOxFrjve7N7TI4MclCETg80YNIKjkJiSO5YSh2JApJ
cp6)
    username: ENC(M4jaZqWjVcaGxh6IMa2tUA==)
    password: ENC(iuI5JAKh61WCtgI+ycuhlw==)
   hikari:
     maximum-pool-size: 10
     connection-timeout: 5000
      connection-init-sql: SELECT 1
      validation-timeout: 2000
```

```
minimum-idle: 10
      idle-timeout: 600000
      max-lifetime: 1800000
      host: ENC(LpNh+/vjAiMaJql6GVj5IjKfieYyfNUfj57BbylKYSA=)
      port: ENC(SgCoO9dYakGvtqFFCrgmjw==)
 јра:
   hibernate:
      ddl-auto: none
    properties:
      hibernate:
          time_zone: Asia/Seoul
        format_sql: true
        show_sql: true;
    open-in-view: false
   secret:
ENC(0Z0P50zspDrX8AulBj2ts8bRuLpiidkxlqYPUu3Lo1Qme1upmXU9A46aehgAJcv1BMBX3UR0djyqlr
6s2fzZCw==)
    secret: ENC(7udXj2JZlot0lHv4nA5CJZeiv00al8rJjTTX/PitNTpGBZP2IGPgzA==)
        bucket: ENC(w13REsuS0o8tjstlxera7jPMXKssk0CK)
        credentials:
          access-key: ENC(86hjlbi9+cK8pvTJv6/k9QpmcevZ+5cKDXWZ8jNZzQw=)
```

```
secret-key:
ENC(ZUi0c0/TD5GFhvt/OAWl6w7/lqXHMhC759SVi5hXEZzL5Q3Z948MgpDLlz53uokb7K24e6v6RmU
     region:
       static: ap-northeast-2
     stack:
       auto: false
      # CloudFront
     cloud-front:
ENC(YOztYcBSgrn8DUGg3dWmxlAvG6ppWAlQdttQBPwDac7AK+i8Fd/x225kvqnFqi8m)
  logging.level:
    org.hibernate.SQL: debug
  url: https://j10d106.p.ssafy.io/api
  port: 8081
   enabled: false
  #서버 앤드포인트 설정
  servlet:
   context-path: /api
ai:
   url: ENC(3XawsTH65cyA4SxkV6wewT1hlbQEfGiOqv10RpWasME=)
naver:
  clientId: ENC(hL2L/8xOeTiXXqB2ixs7apjCtatiJGol)
 clientSecret:
ENC(RAniocJzj1B7buu30mwJK1odtVdJm3vev8kml+whZc0n2yvValuEPHl9hb79BfHGGkKfEPp875U=)
```

3. EC2 서버 구축

3-1. 전체 프로젝트 구조



3-2. Docker

3-2-1. 도커 설치 전 사전 작업

sudo apt-get update

sudo apt-get install apt-transport-https ca-certificates curl software-properties-common

sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add
sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu

\$(lsb_release -cs) stable"

3-2-2. 도커 사전 작업 후 설치

sudo apt-get update

sudo apt-get install docker-ce docker-ce-cli containerd.io

3-2-3. 도커 설치 후 그룹 추가

sudo su

usermod -aG docker {USER이름}

3-3. Jenkins

3-3-1. 젠킨스 이미지 불러오기

sudo docker pull jenkins/jenkins:2.430-jdk21

3-3-2. 젠킨스 실행 전 사전 작업

cd /home/ubuntu && mkdir jenkins-data

sudo chmod -R 777 /home/ubuntu/jenkins-data

3-3-3. 젠킨스 실행

sudo docker run -d -p 8080:8080 -v /home/ubuntu/jenkins-data:/var/jenkins_home --name jenkins jenkins:2.430-jdk21

3-3-4. 젠킨스 접속

http://j10d106.p.ssafy.io:8080

3-3-5. 젠킨스 초기 비밀번호

docker exec -it jenkins bash

cd /var/jenkins_home/secrets/

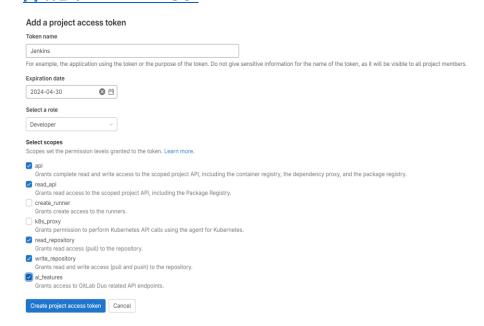
cat initialAdminPassword

3-3-6. 젠킨스 플러그인 설치 목록



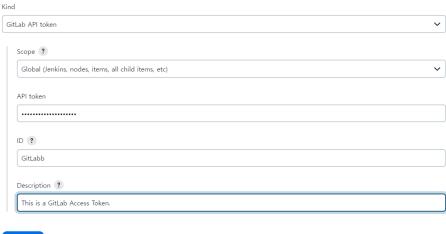
3-3-7. 깃랩 연동 설정

[1] 깃랩의 Access Token 생성



[2] [1]에서 받은 토큰 정보를 젠킨스 credentials 추가

New credentials



Create

[3] GitLab 접속을 위한 아이디, 비밀번호 입력

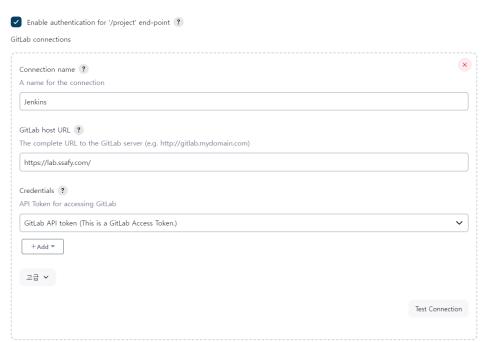
New credentials



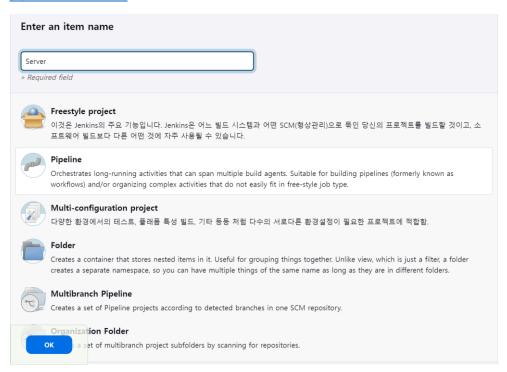
Create

[4] 젠킨스 관리에서 System 설정

GitLab



[5] 파이프 라인 추가



[6] 파이프 라인 설정

Use alternative credential: Credential: Citab API token (This is a Citab Access Token) +Add * Success Test Connection Ild Triggers Build after other projects are built ? Build periodically ? Build when a change is pushed to Citab. Citab webhook URL: http://j10d106.p.ssafyio8080/project/Server ? Enabled Citab Push Events (?) Push Events in case of branch delete ? Quened Merge Request Events ? Duild only if new commits were pushed to Merge Request ? Accepted Merge Request Events ? Comment (reges) for triggering a build ? Enabled Citable) ? Set build description to build cause (eg. Merge request or Cit Push) ? Set build description to build cause (eg. Merge request or Cit Push) ? Set build description to build cause (eg. Merge request or Cit Push) ? Set build description to build cause (eg. Merge request or Cit Push) ? Set build description to build cause (eg. Merge request or Cit Push) ? Set build description to build cause (eg. Merge request or Cit Push) ? Set build description merge request builds on update ? Concert perioding merge request builds on update ? Concert perioding merge request builds on update ? Concert perioding merge request builds on update ?	ab Connection	
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	Filter branches by regex ? Filter merge request by label	

(비밀키는 따로 저장 필요 --> 깃허브 추가)

New credentials

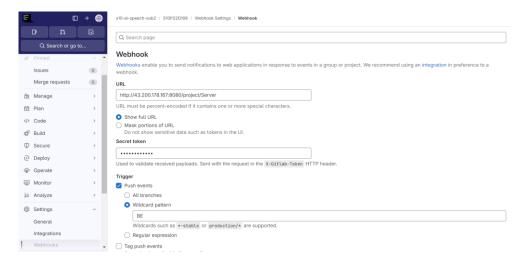


(.pem 내용 그대로 key에 복사/붙여넣기)

[7] WAS 서버에 대한 스크립트 작성

```
pipeline {
   agent any
    environment {
        JASYPT_KEY = 'vodlessafy'
   stages {
        stage('Clone') {
            steps {
                 git\ branch:\ 'BE',\ credentialsId:\ 'GitLab\ User',url:\ 'https://lab.ssafy.com/s10-ai-speech-sub2/S10P22D106.git'
        stage('Build') {
            steps {
                dir("./BE_repo") {
                     sh "chmod +x ./gradlew"
                    sh "./gradlew clean build"
        stage('Deploy') {
           steps {
               dir('BE_repo/build/libs') {
                    sh "chmod 777 ./*"
                    sshagent(credentials: ['EC2_SSH']) {
                         sh 'ssh -o StrictHostKeyChecking=no ubuntu@ip-172-26-2-121'
                         sh 'scp BE_repo-0.0.1-SNAPSHOT.jar ubuntu@ip-172-26-2-121:/home/ubuntu'
                         sh 'scp ../../Dockerfile ubuntu@ip-172-26-2-121:/home/ubuntu'
                         sh 'ssh ubuntu@ip-172-26-2-121 "sh run.sh"'
```

[8] GitLab에 웹훅 걸기



[9] /home/ubuntu 위치에 run.sh 작성하기



3-4. MySQL

3-4-1. 이미지 가져오기

docker pull mysql:8.0.36

3-4-2. 실행하기

sudo docker run -p 2222:3306 --name mysql -e MYSQL_ROOT_PASSWORD=WssafyW -d mysql:8.0.36

3-4-3. CLI 접속하기

docker exec -it mysql mysql -uroot -p

3-5. Redis

3-5-1. 이미지 가져오기

sudo docker pull redis:7.2.4

3-5-2. 해당 이미지 실행하기

docker run --name redis -p 6379:6379 -it -d redis

3-5-3. 레디스 접속하기

sudo docker exec -it redis bash

3-5-4. CLI 접속하기

redis-cli

3-6. NGINX

3-6-1. NGINX 설치

sudo apt update

sudo apt install nginx

3-6-2. NGINX 상태 체크하기

systemctl status nginx

<u>3-6-1. NGINX 적용시키기</u>

1. Certbot 설치
sudo apt install certbot python3-certbot-nginx
2. 인증서 발급
sudo certbot --nginx -d {도메인 이름}
2-1. 옵션 선택 (2번)