# 1. gitlab 소스 클론 이후 빌드 및 배포할 수 있는 작업 문서

1. 사용한 JVM, 웹서버, WAS 제품 등의 종류와 설정값, 버전 ec2 version: Ubuntu 20.04 LTS nginx - 1.18.0 (Ubuntu)

gradle - 4.10.2 Spring boot - 2.1.7 Java - 1.8 azul-1.8 version 1.8.0 312

Mysql - 8.0.25 for Linux on x86\_64

redis - 6.2.6 react - 17.0.2

node.js(컴파일 서버): 14.18.1 node.js(yjs): 14.18.1

2. 빌드 시 사용되는 환경 변수 등의 주요 내용 상세 기재 환경 변수 값들은 코드에 다 들어있습니다.

#### 프론트엔드

cd /var/jenkins\_home/workspace/codeback/front-end npm install --global yarn yarn yarn build

# 백엔드 - spring boot

chmod 777 /var/jenkins\_home/workspace/codeback/back\_springboot/gradlew cd /var/jenkins\_home/workspace/codeback/back\_springboot  ${\tt docker\ build\ --build-arg\ DEPENDENCY=build/dependency\ -t\ back-end\ .}$ docker run -d -p 8080:8080 --name back-end back-end

백엔드 - nodejs (컴파일 서버)

```
cd /var/jenkins_home/workspace/codeback/back_nodejs

docker build . -t back-node-compile

docker stop back-node-compile

docker rm back-node-compile

docker run -d -p 8081:8081 -v /etc/letsencrypt/archive/codeback.net:/etc/letsencrypt/live/codeback.net --name back-node-compile back-node-compile
```

#### 백엔드 - nodejs (공동문서편집 서버)

```
cd /var/jenkins_home/workspace/codeback/back_yjs
docker build . -t back-yjs
docker stop back-yjs
docker rm back-yjs
docker rm back-yjs
docker run -d -p 8082:8082 -v /etc/letsencrypt/archive/codeback.net:/etc/letsencrypt/live/codeback.net --name back-yjs back-yjs
```

#### Mysql

```
docker run -d --name mysql -p 3306:3306 -e MYSQL_ROOT_PASSWORD=ssafy mysql -character-set-server=utf8mb4 --collation-server=utf8mb4
```

#### Redis

```
docker run --name dingrr -p 6378:6379 --network redis-net -d redis redis-server --appendonly yes

docker run -it --network redis-net --rm redis:alpine redis-cli -h dingrr

# redis-cli로 들어가기

docker exec -it dingrr redis-cli

# redis-cli 안에서 위의 명령어 입력

set slave true

config set slave-read-only no

config set stop-writes-on-bgsave-error no
```

#### 3. 배포 시 특이사항 기재

# 젠킨스 적용

도커를 이용하기 때문에 사전에 Docker 설치

#### 플러그인 목록

GitLab, NodeJS

젠킨스 내부에서 도커 명령어 사용을 위해 볼륨을 적용하여 젠킨스 컨테이너 실행

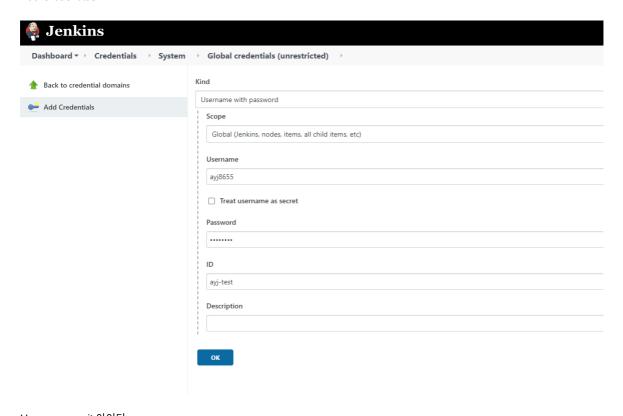
docker run -d --name my\_jenkins -p 9080:8080 -v /home/jenkins\_home:/var/jenkins\_home -v /var/run/docker.sock:/var/run/docker.sock -v \$(which docker):/usr/bin/docker -v /usr/local/bin/dockercompose:/usr/local/bin/docker-compose -u root jenkins/jenkins

# 깃 계정 설정

Manage Credentials → global



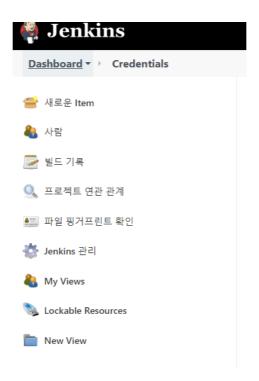
#### Add Credentials



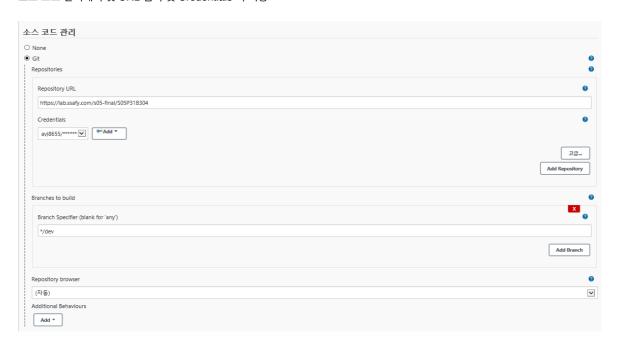
Username = git 아이디 Password = git 비밀번호 ID = 젠킨스에 저장될 키 이름

# 새로운 Item 생성

Freestyle project 적용



#### 소스 코드 관리에서 깃 URL 입력 및 Credentials 키 적용



# 빌드 환경

플러그인에서 Nodejs 설치 및 Global Tool Configuration에 NodeJS 추가



#### Build

#### 전체 로직

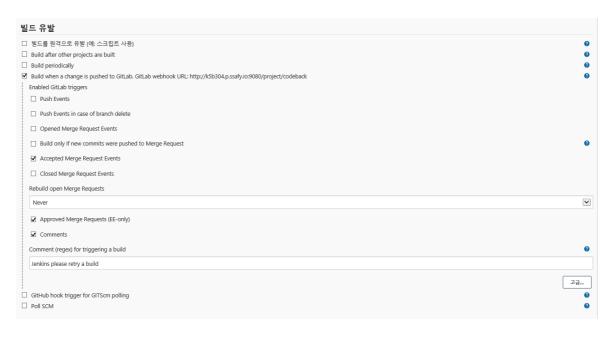
프론트 폴더 이동 및 yarn 설치 후 빌드 docker 외부의 nginx와 연결

백엔드 폴더 이동 및 gradle 빌드 도커 이미지 생성

이전에 실행중이던 도커 컨테이너 정지, 삭제 후 다시 실행

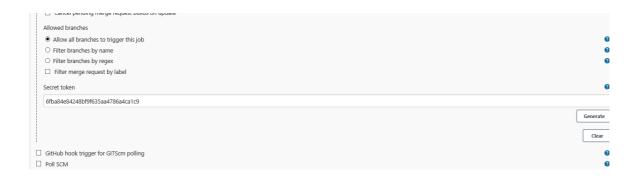
만약 실행중이던 도커가 없다면 stop과 rm을 주석 처리 후 1회 실행

# 빌드 유발



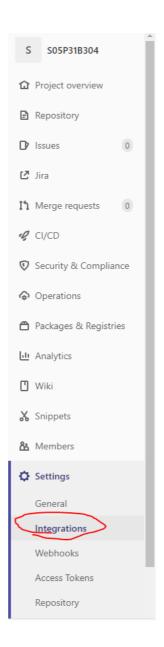
Build when a change is pushed to GitLab 선택 고급 선택 후 아래 처럼 입력

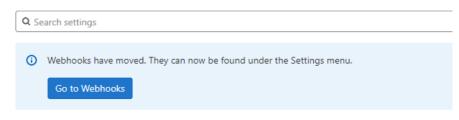
빌드 유발 - 고급



시크릿 토큰과 GitLab webhook URL 저장 후 깃랩으로 이동

#### GitLab





# 여동

# GitLab webhook URL, 시크릿토큰, 푸시 이벤트에 사용할 브랜치 설정

Q Search settings	
Webhook	URL
Webhooks enable you to send notifications to web applications in response to events in a group or project. We recommend using an integration in preference to a webhook.	http://k5b304.p.ssafy.io:9080/project/codeback
	URL must be percent-encoded if neccessary.
	Secret token
	6fba84e84248bf9f635aa4786a4ca1c9
	Use this token to validate received payloads. It is sent with the request in the X-Gitlab-Token HTTP header.
	Trigger
	☐ Push events
	Branch name or wildcard pattern to trigger on (leave blank for all)
	URL is triggered by a push to the repository
	☐ Tag push events
	URL is triggered when a new tag is pushed to the repository
	☐ Comments
	URL is triggered when someone adds a comment
	☐ Confidential comments
	URL is triggered when someone adds a comment on a confidential issue
	☐ Issues events
	URL is triggered when an issue is created, updated, closed, or reopened
	☐ Confidential issues events
	URL is triggered when a confidential issue is created, updated, closed, or reopened
	Merge request events     IDL is triggered when a marge request is greated, undated, or marged.
	URL is triggered when a merge request is created, updated, or merged
	☐ Job events  URL is triggered when the job status changes
	☐ Pipeline events  URL is triggered when the pipeline status changes
	☐ Wiki page events
	URL is triggered when a wiki page is created or updated
	□ Deployment events
	URL is triggered when a deployment starts, finishes, fails, or is canceled
	☐ Feature flag events
	URL is triggered when a feature flag is turned on or off
	☐ Releases events
	URL is triggered when a release is created or updated
	SSL verification
	☑ Enable SSL verification
	Save changes Test ➤ Delete
	Save changes Test ✓ Delete

webhook 테스트

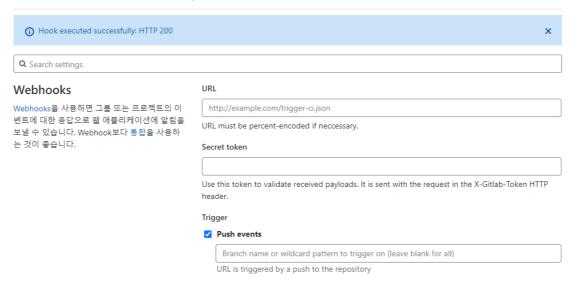
#### **Recent Deliveries**

When an event in GitLab triggers a webhook, you can use the request details to figure out if something went wrong.

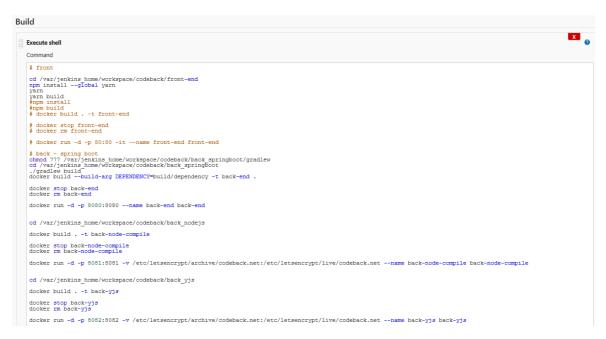


#### HTTP 200이 뜰 경우 성공

s05-webmobile2-sub3 > S05P13B203 > Webhook Settings



# Jenkins build script



#### **Execute shell Command**

```
# front
cd /var/jenkins_home/workspace/codeback/front-end
npm install --global yarn
yarn
yarn build
#npm install
#npm build
# docker build . -t front-end
# docker stop front-end
# docker rm front-end
# docker run -d -p 80:80 -it --name front-end front-end
# back - spring boot
chmod 777 /var/jenkins_home/workspace/codeback/back_springboot/gradlew
cd /var/jenkins_home/workspace/codeback/back_springboot
./gradlew build
docker build --build-arg DEPENDENCY=build/dependency -t back-end .
docker stop back-end
docker rm back-end
docker run -d -p 8080:8080 --name back-end back-end
cd /var/jenkins_home/workspace/codeback/back_nodejs
docker build . -t back-node-compile
docker stop back-node-compile
docker rm back-node-compile
docker run -d -p 8081:8081 -v /etc/letsencrypt/archive/codeback.net:/etc/letsencrypt/live/codeback.net --name back-node-compile ba
cd /var/jenkins_home/workspace/codeback/back_yjs
docker build . -t back-yjs
docker stop back-yjs
docker rm back-yjs
docker run -d -p 8082:8082 -v /etc/letsencrypt/archive/codeback.net:/etc/letsencrypt/live/codeback.net --name back-yjs back-yjs
```

4. 데이터베이스 접속 정보 등 프로젝트에 활용되는 주요 계정 및 프로퍼티가 정의된 파일 목록

#### **MYSQL**

ID: root

Password: ssafy

### backend spring boot

#### application.properties

```
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://k5b304.p.ssafy.io:3306/codeback?useUniCode=yes&characterEncoding=UTF-8&serverTimezone=Asia/Seot
spring.datasource.username=root
spring.datasource.password=ssafy

# jpa
spring.jpa.properties.hibernate.show_sql=true
spring.jpa.properties.hibernate.format_sql=true
spring.jpa.properties.hibernate.use_sql_comments=true
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL5Dialect
spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect
spring.jpa.hibernate.ddl-auto=update

# jwt
tokenSecret= c2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNOLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNOLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNOLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNOLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNOLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNOLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXN
```

```
tokenExpirationMsec = 5000000
refreshTokenExpirationMsec = 500000000
# COOKIE
accessTokenCookieName = accessToken
refreshTokenCookieName = refreshToken
emailCookieName = emailCookie
jwt.header = Authorization
jwt.secret = c2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhbC1zZWNyZXQtc2lsdmVybmluZS10ZWNoLXNwcmluZy1ib290LWp3dC10dXRvcmlhb
jwt.token-validity-in-seconds = 86400
spring.mail.host=smtp.gmail.com
spring.mail.port=587
spring.mail.username=leeyongjig7679@gmail.com
spring.mail.password=xobjkfiiwohjiwle
spring.mail.properties.mail.smtp.auth=true
spring.mail.properties.mail.smtp.starttls.enable=true
signUpCookieName = signUpCookie
#redis
spring.redis.database=0
spring.redis.host=k5b304.p.ssafy.io
spring.redis.port=6378
spring.redis.timeout=60000
#https
server.ssl.key-store=classpath:keystore.p12
server.ssl.key-store-password=123123
server.port=8080
```

# front end (front-end 폴더 하위에 존재)

.env.development.local

```
REACT_APP_API_DOMAIN_URL=https://codeback.net:8080
REACT_APP_OPENVIDU_URL=https://codeback.net:8443
REACT_APP_OPENVIDU_KEY=CODEBACK
REACT_APP_COMPILE_SOCKET_URL=https://codeback.net:8081
REACT_APP_EDITOR_SOCKET_URL=wss://codeback.net:8082
```

# .env.production

```
REACT_APP_API_DOMAIN_URL=https://codeback.net:8080
REACT_APP_OPENVIDU_URL=https://codeback.net:8443
REACT_APP_OPENVIDU_KEY=CODEBACK
REACT_APP_COMPILE_SOCKET_URL=https://codeback.net:8081
REACT_APP_EDITOR_SOCKET_URL=wss://codeback.net:8082
```

# backend nodejs (back\_nodejs폴더 하위에 존재)

process.env 파일

```
JD00DLE_ID = 272acc2fecb4661ea47e443f8ea3d8a2
JD00DLE_SECRET = e5904b4f5f20ea37e968153ca239b982bb00fb73c5100b8fa92ed810013b7fef
SECRET_PATH = /etc/letsencrypt/live/codeback.net
```

#### backend yjs (back\_yjs폴더 하위에 존재)

process.env 파일

```
SECRET_PATH = /etc/letsencrypt/live/codeback.net
```