빌드 및 정리 문서

1. 사용 기술 스택

기술 스택

Aa 분류	∷ 이름	≡ 버전
<u>SERVER</u>	AWS	Ubuntu 20.04 LTS (GNU/Linux 5.4.0-1018-aws x86_64)
<u>제목 없음</u>	Docker	20.10.23
<u>제목 없음</u>	openVidu	2.25.0
<u>CI/CD</u>	Jenkins	2.375.2
<u>DB</u>	Redis	7.0.8
<u>제목 없음</u>	MySql	8.0.32
<u>FE</u>	VisualStudioCode	1.74.2
<u>제목 없음</u>	nodeJS	16.13.2
<u>제목 없음</u>	npm	8.1.2
<u>제목 없음</u>	React	6
<u>BE</u>	intelliJ	2022.3.1
<u>제목 없음</u>	Spring-Boot	2.7.7
<u>제목 없음</u>	JAVA	11
<u>제목 없음</u>	Gradle	7.6

FE 설정 파일

```
// .env
REACT_APP_API_URL=https://i8e104.p.ssafy.io/api
REACT_APP_APPLICATION_SERVER_URL=https://i8e104.p.ssafy.io/
REACT_APP_GOOGLE_REDIRECT_URI=https://i8e104.p.ssafy.io/login/google
REACT_APP_GOOGLE_REST_KEY=148458737954-dlel68c7r0p1b6k5f3fa0v0jugqhte9v.apps.googleusercontent.com

REACT_APP_KAKAO_JS_KEY=fc5f834b5ad79978e1b16032d5303873
REACT_APP_KAKAO_REST_KEY=7523ac59284fff835cf86b2eb76876b7
REACT_APP_KAKAO_REST_KEY=7523ac59284fff835cf8cb2eb76876b7
REACT_APP_KAKAO_REDIRECT_URI=https://i8e104.p.ssafy.io/login/kakao

REACT_APP_NAVER_REDIRECT_URI=https://i8e104.p.ssafy.io/login/naver
REACT_APP_NAVER_REST_KEY=N23LX8iClQg8eJPA0Puo

REACT_APP_PROD_CLIENT_URL=https://i8e104.p.ssafy.io
```

BE 설정 파일

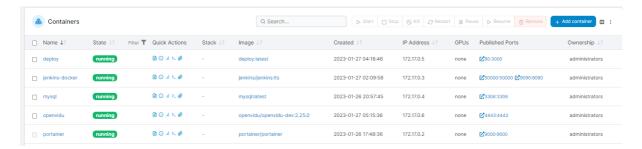
```
# application.properties
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

spring.datasource.url=jdbc:mysql://i8e104.p.ssafy.io:3306/patpatDB?serverTimezone=Asia/Seoul&characterEncoding=UTF-8
spring.datasource.username=root
spring.datasource.password=patpat104

spring.main.allow-circular-references=true
spring.jpa.open-in-view=false
```

```
# file-upload
     spring.servlet.multipart.max-request-size=200MB
   spring.servlet.multipart.max-file-size=200MB
 \verb| #app.fileupload.uploadPath=C:\Users\SAFY\Desktop\\leeflection\S08P12E104\backend\src\main\resources\static | Saffy\Desktop\Constraints | S
 {\tt \#app.fileupload.uploadPath=C:\Users\SSAFY\Desktop\ssafy\test}
   \label{thm:continuous} \# app.fileupload.uploadPath=C:\VIsers\VIser\VIsers\VIserSupplies App. App.fileupload.uploadPath=C:\VIsers\VIser\VIserSupplies App. App.fileupload.uploadPath=C:\VIsers\VIser\VIserSupplies App. App.fileupload.uploadPath=C:\VIsers\VIserSupplies App. App.fileupload.uploadPath=C:\VIsers\VIserSupplies App. App.fileupload.uploadPath=C:\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIsers\VIs
 app.fileupload.uploadPath=static
 \verb"app.fileupload.uploadDir=upload"
 #logging
 logging.level.com.ssafy.patpat=DEBUG
 jwt.header=Authorization
 jwt.access-token-validity-in-seconds=36000000
 jwt.refresh-token-validity-in-seconds=360000000
                  김씨꺼 95fbb288eef0efa602e9ea13e27cb4fb
   # 내꺼 7523ac59284fff835cf86b20b76876b7
   spring.security.oauth 2.client.registration.kakao.client-id=7523 ac 59284 fff 835 cf 86b 20b 76876 browned by the contraction of the contraction
   spring.security.oauth 2.client.registration.kakao.client-authentication-method = POST \\
   spring.security.oauth 2.client.registration.kakao.authorization-grant-type=authorization\_code
   spring.security.oauth 2. client.registration.kakao.scope = profile\_nickname, \ profile\_image, \ account\_email, \ age\_range = profile\_image, \ age\_range = profile\_image, \ age\_range = profile\_image, \ age\_rang
   spring.security.oauth2.client.registration.kakao.client-name=kakao
   spring.security.oauth2.client.provider.kakao.authorization-uri = https://kauth.kakao.com/oauth/authorizetion-uri = https://kauth.kakao.com/oauthorizetion-uri = https://kauth.kakao.com/oauthorizetion-uri = https://kauthorizetion-uri = https://
   spring.security.oauth2.client.provider.kakao.token-uri=https://kauth.kakao.com/oauth/token
     spring.security.oauth2.client.provider.kakao.user-info-uri=https://kapi.kakao.com/v2/user/me
   spring.security.oauth 2.client.provider.kakao.user-name-attribute=id\\
   spring.security.oauth2.client.registration.naver.client-id=Nz3LX8iCIQg8eJPAOPuo
   spring.security.oauth2.client.registration.naver.client-secret=Ig6tqHs28c
   spring.security.oauth 2.client.registration.naver.authorization-grant-type= authorization\_code
   spring.security.oauth 2.client.provider.naver.token-uri=https://nid.naver.com/oauth 2.0/token-uri=https://nid.naver.com/oauth 2.0/token-uri=https://nid.na
     spring.security.oauth2.client.provider.naver.user-info-uri=https://openapi.naver.com/v1/nid/me
   spring.security.oauth2.client.provider.naver.authorization-uri = https://nid.naver.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauth/authorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oauthorizetailed.com/oautho
   spring. security. oauth 2. client. registration. google. client-id = 148458737954-dlel 68c7r0p1b6k5f3fa0v0jugqhte9v. apps. googleusercontent. compared to the content of 
   spring.security.oauth2.client.registration.google.scope = profile,email,openid
     spring.security.oauth 2.client.registration.google.authorization-grant-type= authorization\_code authorization au
   spring.security.oauth 2.client.provider.google.authorization-uri=https://oauth 2.googleap is.com/linear.google.authorization-uri=https://oauth 2.googleap is.com/linear.google.authorization-uri=https://oauth 2.googleap is.com/linear.google.authorization-uri=https://oauth 2.googleap is.com/linear.google.authorization-uri=https://oauth 2.googleap is.com/linear.google.authorization-uri=https://oauth 2.googleap is.com/linear.google.authorization-uri=https://oauth 2.googleap is.com/linear.googleap is.com
   spring.security.oauth 2.client.provider.google.token-uri=https://oauth 2.googleap is.com/token-uri=https://oauth 2.googleap is.com/token-uri=https://oauth
 spring.security.oauth2.client.provider.google.user-info-uri=https://www.googleapis.com/oauth2/v1/userinfo?alt=json
   spring.redis.port=6379
   spring.redis.host=i8e104.p.ssafy.io
   spring.redis.password=patpat104
   # spring.redis.username=moski
 openvidu.url=https://i8e104.p.ssafy.io:8443/
openvidu.secret=PATPAT
   # 배포시 사용
 spring.jpa.show-sql=false
   #spring.jpa.show-sql=true
 # 배포시 사용
 #spring.jpa.hibernate.ddl-auto=none
 spring.jpa.hibernate.ddl-auto=update
   # 배포시 사용
   \verb|spring.jpa.properties.hibernate.format_sql=false|\\
   #spring.jpa.properties.hibernate.format_sql=true
 # 배포시 사용
 #app.filecall.url=https://i8e104.p.ssafy.io/api/img
app.filecall.url=http://i8e104.p.ssafy.io:8081/api/img
   #spring.security.oauth2.client.registration.google.redirect-uri=https://i8e104.p.ssafy.io/login/google
   spring.security.oauth2.client.registration.google.redirect-uri=http://localhost:3000/login/google
 #배포시 사용
 \verb|#spring.security.oauth2.client.registration.kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.redirect-uri=https://i8e104.p.ssafy.io/login/kakao.red
   spring.security.oauth 2.client.registration.kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost:3000/login/kakao.redirect-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://local
 #배포시 사용
 \verb|#spring.security.oauth2.client.registration.naver.redirect-uri= | https://i8e104.p.ssafy.io/login/naver.redirect-uri= | https://i8e104.p.ssafy.io/login/
   spring.security.oauth 2.client.registration.naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost:3000/login/naver.redirect-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://localhost-uri=http://local
```

배포



포트번호 : 용도

80: 배포용

9090 : jenkins

3306 : mysql

4443 : openvidu

9000 : portainer

로 사용중입니다.

docker 설치

1. 패키지 툴 업데이트

sudo apt-get update

2. 도커 레포지토리 설치

```
sudo apt-get install ca-certificates curl gnupg lsb-release
sudo mkdir -p /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o
/etc/apt/keyrings/docker.gpg
echo \
   "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg]
https://download.docker.com/linux/ubuntu \
   $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list >
/dev/null
sudo apt-get update
```

3. 도커 엔진 설치

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

4. 실행 확인하기

systemctl status docker.service sudo docker run hello-world

```
ubuntu@ip-172-26-11-210:~$ systemctl status docker.service
  docker.service - Docker Application Container Engine
      Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset:>
      Active: active (running) since Thu 2023-01-26 08:38:31 UTC; 2min 3s ago
TriggeredBy: • docker.socket
         Docs: <a href="https://docs.docker.com">https://docs.docker.com</a>
    Main PID: 20506 (dockerd)
       Tasks: 10
      Memory: 23.2M
      CGroup: /system.slice/docker.service L_20506 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont>
Jan 26 08:38:31 ip-172-26-11-210 dockerd[20506]: time="2023-01-26T08:38:31.32103>
Jan 26 08:38:31 ip-172-26-11-210 dockerd[20506]: time="2023-01-26T08:38:31.32104
Jan 26 08:38:31 ip-172-26-11-210 dockerd[20506]: time="2023-01-26T08:38:31.32104
Jan 26 08:38:31 ip-172-26-11-210 dockerd[20506]: time="2023-01-26T08:38:31.32122
Jan 26 08:38:31 ip-172-26-11-210 dockerd[20506]: time="2023-01-26T08:38:31.86731
Jan 26 08:38:31 ip-172-26-11-210 dockerd[20506]: time="2023-01-26T08:38:31.92357]
Jan 26 08:38:31 ip-172-26-11-210 dockerd[20506]: time="2023-01-26T08:38:31.94306]
Jan 26 08:38:31 ip-172-26-11-210 dockerd[20506]: time="2023-01-26T08:38:31.94318]
Jan 26 08:38:31 ip-172-26-11-210 systemd[1]: Started Docker Application Containe
Jan 26 08:38:31 ip-172-26-11-210 dockerd[20506]: time="2023-01-26T08:38:31.97588
```

```
ubuntu@ip-172-26-11-210:~$ sudo docker run hello-world

Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world

2db29710123e: Pull complete
Digest: sha256:aa0cc8055b82dc2509bed2e19b275c8f463506616377219d9642221ab53cf9fe

Status: Downloaded newer image for hello-world:latest

Hello from Docker!

This message shows that your installation appears to be working correctly.
```

설치 확인 완료!!

Portainer 설치 (9000 port)

• portainer : Docker 를 웹상에서 관리할 수 있게 도와주는 툴

1. portainer에서 사용할 volume 생성

docker volume create portainer_data

2. 이미지 다운로드 및 컨테이너 생성 후 실행

docker run -d -p 9000:9000 -v /var/run/docker.sock:/var/run/docker.sock \
-v portainer_data:/data --name portainer --restart=always portainer/portainer

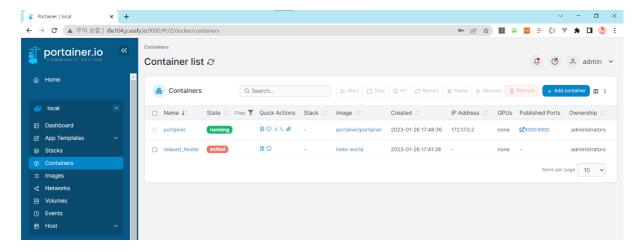
• -d: 백그라운드 실행

• -p: 외부 포트와 내부 포트 연결

• -v: 데이터 바운딩

—name : 컨테이너 이름 지정
 —restart : 재시작시 실행 여부

http://i8e104.p.ssafy.io:9000/ 접속시 portainer 사용가능



user: admin

pwd: patpat104104

MySQL 설치(3306 port)

• 서버에서 사용할 db 연결

1. mysql 이미지 다운

sudo docker pull mysql

2. 컨테이너 생성 및 실행

```
sudo docker run --name mysql -e MYSQL_ROOT_PASSWORD=patpat104 -d -p 3306:3306 mysql:latest
```

-e MYSQL_ROOT_PASSWORD=<password> : mysql root계정의 비밀번호 설정. root 계정 연결 시 사용

3. mysql 컨테이너 접속

```
sudo docker exec -it <컨테이너 이름> bash
// 컨테이너 이름. 여기같은 경우 mysql
```

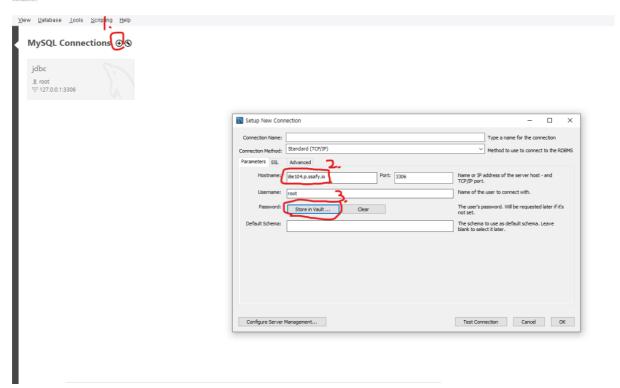
4. mysql root 계정 접속 가능

```
mysql -u root -p
// 이후 Enter password 등장시 위에 2번에서 입력했던 비밀번호 입력
```

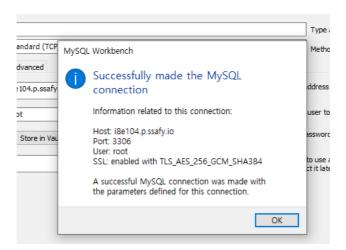
```
bash-4.4# mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.32 MySQL Community Server - GPL
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or if affiliates. Other names may be trademarks of their respective owners.
```

• 여기서 db만들고 입력도 가능하지만 간편하게 workbench 사용

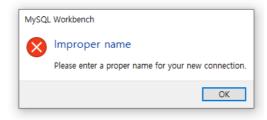




- 1. + 선택
- 2. 도메인 입력 (포트는 고정)
- 3. 사전에 입력했던 비밀번호 입력
- 이후 test connection 클릭하고 연결 확인



• 이름을 안적어서 이런 에러가 떴었다.



Jenkins 설치(9090 port)

- Jenkins : CI/CD를 편하게 해주는 툴. 소프트웨어 개발시 지속적인 통합 서비스를 제공한다.(자동 배포등등)
- front React
- back spring boot(gradle)

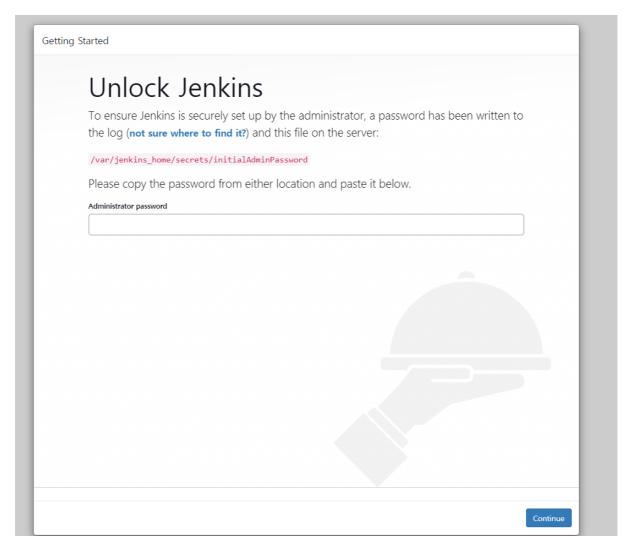
1. jenkins 이미지 다운

sudo docker pull jenkins/jenkins:lts

2. 컨테이너 생성 및 실행

sudo docker run --name jenkins-docker -d -p 9090:8080 -p 50000:50000 -v /home/jenkins:/var/jenkins_home -u root jenkins/jenkins:lts

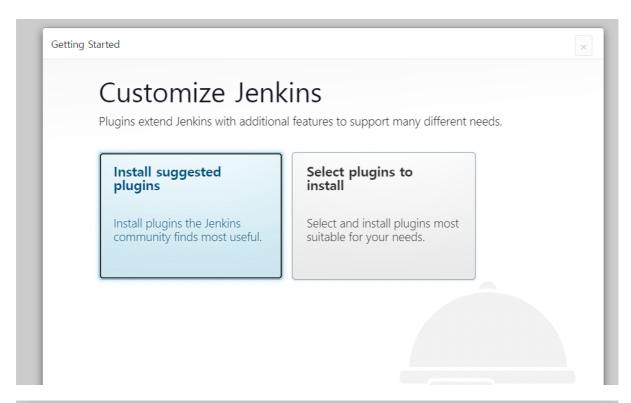
http://i8e104.p.ssafy.io:8080/ 접속시 초기 화면



3. 비밀번호 확인

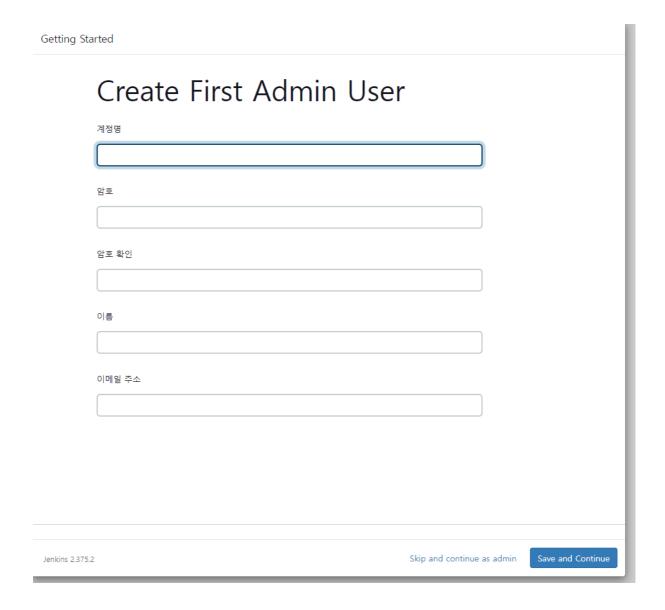
sudo cat /home/jenkins/secrets/initialAdminPassword

4. install suggested plugins 선택

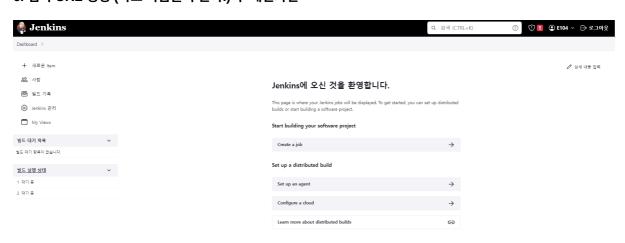


Getting Started				
Ge	etting Star	ted		
Folders	OWASP Markup Formatter	8 Build Timeout	Credentials Binding	** JavaBeans Activation Framework (JAF API ** JavaMail API
Timestamper	Workspace Cleanup	C Ant	**Gradle	** bouncycastle API
Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View	
Git Git	SSH Build Agents	Matrix Authorization Strategy	PAM Authentication	
LDAP	Email Extension	Mailer Mailer		

5. 계정 생성



6. 접속 URL 생성 (바로 다음을 누른다.) 후 메인화면



7. 플러그인 설치



- 플러그인 관리 클릭
- Available plugins에서 아래 플러그인 설치
 - o publish Over ssh
 - NodeJS Plugin
 - o Generic Webhook Trigger Plugin
 - o Gitlab API Plugin
 - o GitLab Authentication plugin
 - GitLab Branch Source Plugin
 - o GitLab Plugin

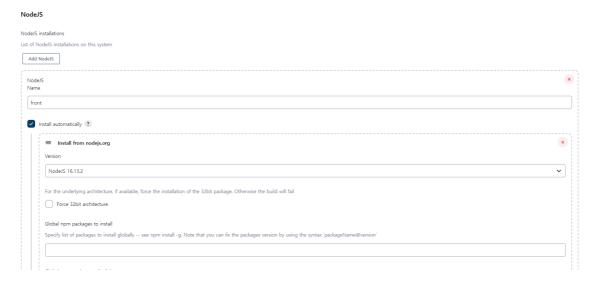
8. 기타 환경 설정



- Jenkins 관리 Global Tool Configuration
- gradle에서 자신이 사용하는 gradle 선택 (back 전용) name과 version만 선택

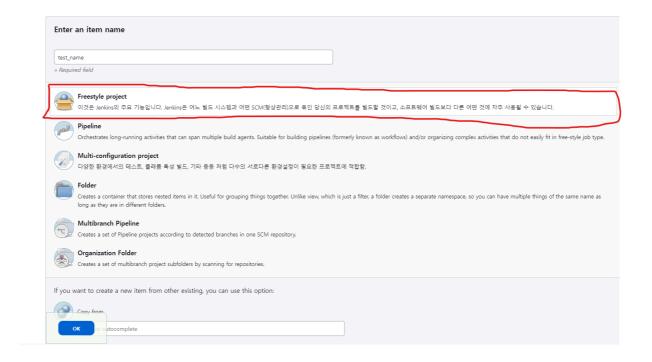


• NodeJS에서 자신이 사용하는 Nodejs 버젼 선택 (front 전용) - name과 version만 선택

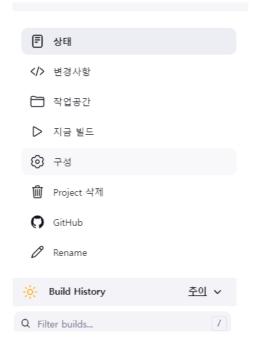


9. 새로운 Item 생성





10. 프로젝트 구성 - 프로젝트 입장 후 구성 클릭

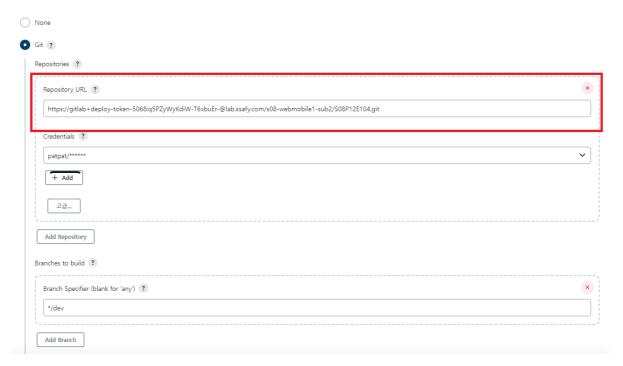


• GitHub project 선택 후 project url 입력



• 소스 코드 관리 - Repository URL 입력 (deploy token 보유시 해당 token 도 함께 입력)

소스 코드 관리

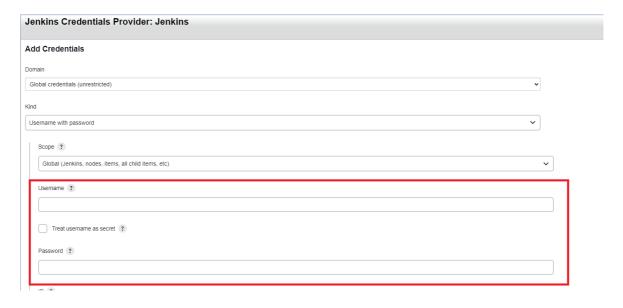


• 소스 코드 관리 - Credentials (webhooks 설정시 사용)

소스 코드 관리



• 자신의 gitlab의 username와 password를 입력

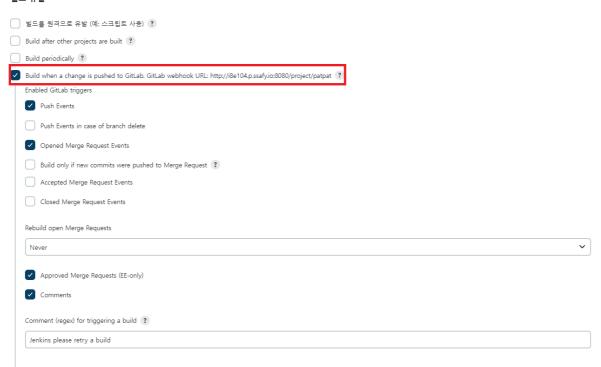


• build 대상이 되는 branch 입력



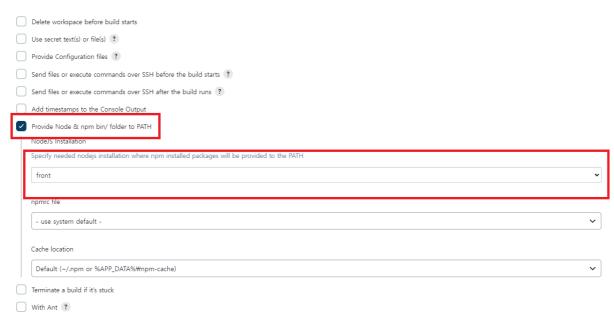
• 빌드 유발 - Build when a change is pushed to GitLab. GitLab webhook URL.... 선택

빌드 유발



• 빌드 환경 - Provide Node & npm bin/ folder to PATH 선택 후 NodeJS Installation 선택 (global 선택에서 설정한 NodeJS 선택)

빌드 환경



- Build Steps Add build step에서 Excute shell 선택
- CI=false → eslint 무시



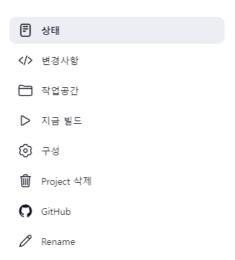
- Add build step에서 Invoke Gradle script 선택
- -x test → test 파일 무시



• 저장하기

11. 지금 빌드

• 왼쪽 리스트중 지금 빌드 클릭



• 빌드 성공 확인







사용자 <u>E104</u> 에 의해 시작됨



Revision: f8af5cc223420366293f1131294a66051d3bb7c5

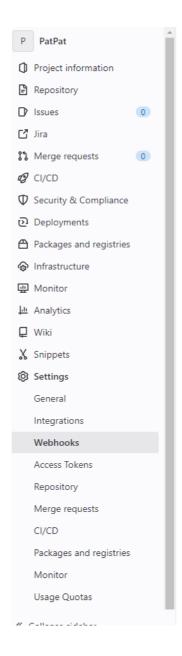
Revision: 18a15cc22342U36629511131294a80003103DD7G3
Repository: https://gitlab+deploy-token-5068:q5PZyWyKdiW-T6xbuEr-@lab.ssafy.com/s08-webmobile1-sub2/S08P12E104.git

• refs/remotes/origin/dev

• Console Output을 클릭하면 콘솔창으로 확인 가능

12. WebHook 추가

• gitlab의 setting에 Webhooks 선택



• URL과 Secret token 입력

s08-webmobile1-sub2 > PatPat > Webhook Settings

Webhooks
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.

URL

http://example.com/trigger-ci.json

URL must be percent-encoded if it contains one or more special characters.

Secret token

Used to validate received payloads. 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)

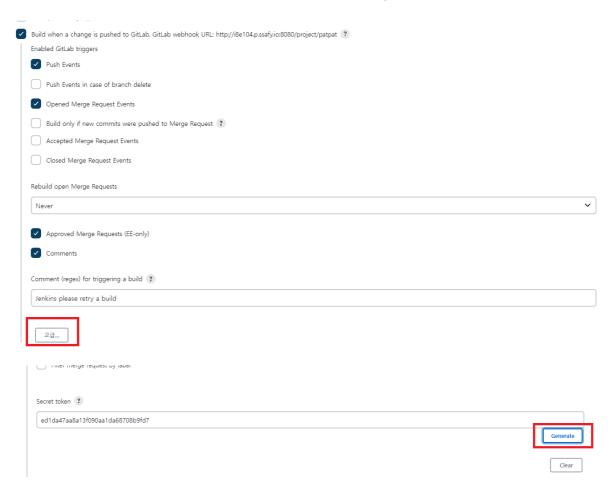
Push to the repository.

Tag push events

• URL은 젠킨스→ 프로젝트 구성 → 빌드 유발 → Build when a change is pushed to GitLab. GitLab webhook URL : ~~~~에 붙어 있는 URL



• Secret token은 빌드 유발 → Build when ~~~ → 고급 → 맨 밑에 secret token generate 클릭



• URL과 Secret token 입력을 마친 뒤 Trigger 설정

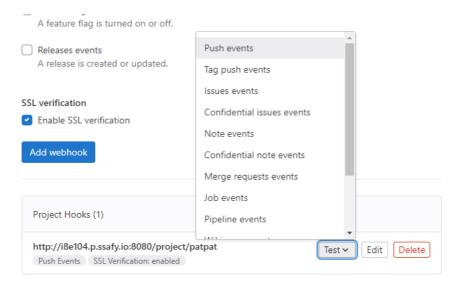


• 자동으로 빌드 시키고 싶은 브랜치 이름 적기

• SSL verification 선택 후 Add webhook



13. 생성된 웹훅 테스트 해보기



• 선택 후 젠킨스 확인



• 빌드 성공!

14. build 결과물 서버에 저장되어 있는지 확인

• docker이미지의 데이터가 바인딩된 폴더 체크

cd /home/jenkins/workspace/patpat

```
ubuntu@ip-172-26-11-210:/home/jenkins/workspace/patpat$ ll total 24 drwxr-xr-x 5 root root 4096 Jan 26 13:46 ./ drwxr-xr-x 3 root root 4096 Jan 26 13:46 ../ drwxr-xr-x 8 root root 4096 Jan 26 17:18 .git/ -rw-r-r-- 1 root root 24 Jan 26 13:46 README.md drwxr-xr-x 6 root root 4096 Jan 26 17:19 backend/ drwxr-xr-x 7 root root 4096 Jan 26 17:18 frontend/ ubuntugin 172 26 11 210 /home/jenkins/workspace/patpat$
```

15. build된 데이터들을 jenkins 내부의 도커에 올려서 배포

- 위 단계를 진행하기 위해 build file들을 jenkins 내부의 작업 폴더로 옮길 필요가 있다.
- /home/jenkins → /var/jenkins_home으로 바인딩되어 있으므로 /home/jenkins에 폴더를 만들면 /var/jenkins_home에도 폴더가 생성된다.

```
cd /home/jenkins
sudo mkdir patpat
```

```
abbuntue(p-172-26-11-210:/home/jenkins$ls

com.dabsquared.gitlabjenkins.GittlabConnectionConfig.xml

hudson.plugins.gradle.Gradle.xml
| jobs | secret.key |
logs | sec
```

```
root893a0e67b1bc5:/var/jenkins_homef ls
caches
caches
caches
caches
com.dabsquared.gitlabjenkins.GitLabPushTrigger.xml
com.dabsquared.gitlabjenkins.connection.GitLabConnectionConfig.xml
com.dabsquared.gitlabjenkins.connection.GitLabConnectionConfig.xml
com.fig.xml
copy_reference_file.log
credentials.xml
copy_lefterence_file.log
credentials.xml
jenkins.mvn.GlobalMavenConfig.xml
jenkins.nvn.GlobalMavenConfig.xml
secret.key
secr
```

- 여기서 우리는 자동 배포를 위해 해당 build 파일을 도커 이미지로 만들고 이를 컨테이너로 실행시킴으로써 배포할 예정이다.
- 해당 작업을 위해 여러 파일을 만들어 준다.

```
# 프론트 파일을 담을 풀더 sudo mkdir frontend
# 백 파일을 담을 풀더 sudo mkdir backend
# nginx와 다른 실행 스크립트를 담을 풀더 sudo mkdir common
# 도커 이미지 파일 sudo touch DockerFile
# 이미지를 생성하고 컨테이너를 생성하는 스크립트 sudo touch docker_exec.sh
cd common
# nginx 초기 세팅 sudo touch myapp.conf
# 프론트와 백을 실행시킬 스크립트 sudo touch deploy_start.sh
```

• 해당 작업을 위한 스크립트 파일 docker_exec.sh 파일은 아래와 같다.

```
#docker_exec.sh
# deploy라는 이름을 가진 컨테이너를 탐색한다.
NODE_CONTAINER_ID=`docker ps -aq --filter 'name=deploy'`
# 해당 폴더의 DockerFile을 이용하여 deploy 도커 이미지 생성 해당 경로 . 찍는거 주의
docker build -t deploy .
# 만약 deploy 컨테이너가 있다면
if [ -n "$NODE_CONTAINER_ID" ];
then
# deploy 컨테이너를 중지
```

```
docker stop $NODE_CONTAINER_ID
# deploy 컨테이너를 삭제
docker rm $NODE_CONTAINER_ID
# deploy 컨테이너 새로 생성
docker run -itd --restart=unless-stopped --name deploy -p 80:3000 -v /usr/share/zoneinfo/Asia/Seoul:/etc/timezone:ro -v /home/depl
else
# 만약 deploy 컨테이너가 없었다면
# deploy 컨테이너 생성
docker run -itd --restart=unless-stopped --name deploy -p 80:3000 -v /usr/share/zoneinfo/Asia/Seoul:/etc/timezone:ro -v /home/depl
fi
# 사용하지 않는 이미지 삭제
docker rum $(docker images -f "dangling=true" -q)
```

• 해당 스크립트에서 사용되는 DockerFile은 아래와 같다.

```
# 자바 8 기준으로 실행
FROM openjdk:8-jre-slim
# 인자 설정
ARG BACKEND_FILE=backend/*.jar
ARG FRONTEND_FILE=frontend/
ARG NGINX_FILE=common/myapp.conf
ARG EXEC_FILE=common/deploy_start.sh
# nginx 설치 및 설정
RUN apt-get update
RUN apt-get -y install nginx
{\tt RUN \ rm \ /etc/nginx/sites-available/default}
{\tt RUN \ rm \ /etc/nginx/sites-enabled/default}
COPY ${NGINX_FILE} /etc/nginx/sites-available
{\tt RUN \ ln \ -s \ /etc/nginx/sites-available/myapp.conf \ /etc/nginx/sites-enabled/myapp.conf}
# FE, BE build 파일 복사
RUN mkdir /frontend
{\tt COPY $\{FRONTEND\_FILE\} / frontend}
COPY ${BACKEND_FILE} /backend/app.jar
# Exec 파일 복사
COPY ${EXEC_FILE} ./
# 복사된 deploy파일 실행
ENTRYPOINT ["/bin/sh", "deploy_start.sh"]
```

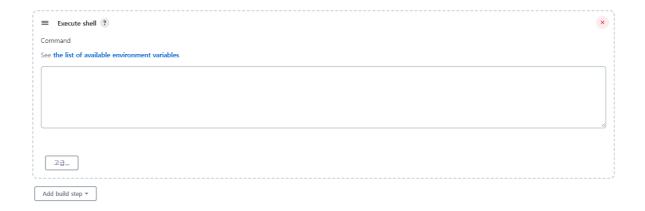
• nginx 기본 설정 파일인 myapp.conf는 다음과 같다.

```
server {
  listen 3000;
  location / {
    root /frontend;
    index index.html index.htm;
    try_files $uri $uri/ /index.html;
  }
}
```

• 프론트와 백 서버를 실행 시킬 스크립트 파일인 deploy_start.sh 아래와 같다.

```
#/bin/bash
/etc/init.d/nginx start
java -jar /backend/app.jar
```

- 이러한 실행 과정을 자동화하기 위해 jenkins 프로젝트 내부의 build steps를 활용한다.
- Add build step에서 Execute shell을 선택하여 새로운 창을 띄운다.



• 위 shell창은 jenkins 내부에서 돌아가는 코드이다. 고로 파일을 옮겨줄때도 jenkins 내부에 바운딩되어 있는 폴더를 기준으로 작성한다.

```
# backend build 파일 옮기기
cp -rp /var/jenkins_home/workspace/patpat/backend/build/libs/*SNAPSHOT.jar /var/jenkins_home/patpat/backend/
# frontend build 파일 옮기기
cp -rp /var/jenkins_home/workspace/patpat/frontend/build/* /var/jenkins_home/patpat/frontend/
```

• 이후 해당 파일로 이동한다.

cd /var/jenkins_home/patpat

• 스크립트 파일을 실행한다.

sh /var/jenkins_home/patpat/docker_exec.sh

🔀 이렇게 실행하다 보면 에러가 하나 발생한다.

```
+ sh /var/jenkins_home/patpat/docker_exec.sh

/var/jenkins_home/patpat/docker_exec.sh: 1: docker: not found

/var/jenkins_home/patpat/docker_exec.sh: 5: docker: not found

/var/jenkins_home/patpat/docker_exec.sh: 18: docker: not found

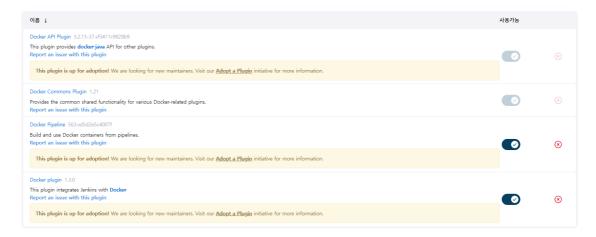
/var/jenkins_home/patpat/docker_exec.sh: 22: docker: not found

/var/jenkins_home/patpat/docker_exec.sh: 22: docker: not found

Build step 'Execute shell' marked build as failure

Finished: FAILURE
```

- jenkins 내부에 도커가 없어서 도커를 실행할 수 없다고 뜬다.
- 해결방법
 - 1. jenkins 에서 docker관련 플러그인 설치



2. jenkins 컨테이너 내부에 docker 설치

```
apt-get remove docker docker-engine docker.io containerd runc
apt-get update
apt-get install \
    ca-certificates \
    curl \
    gnupg \
    lsb-release
mkdir -p /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/debian/gpg | gpg --dearmor -o /etc/apt/keyrings/docker.gpg
echo \
    "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/debian \
    $(lsb_release -cs) stable" | tee /etc/apt/sources.list.d/docker.list > /dev/null
## - Install Docker Engine
apt-get update
apt-get install docker-ce docker-ce-cli containerd.io docker-compose-plugin
```

• 위 두 방법을 통해서 해결했다.

```
695fd3d37f29

3fa60eb413dcf45a8e51e083a3cc2fa07b04f1f8ba9cba234ca596b64ff18693

Deleted: sha256:dc3a1753d3313a33c942c8be1f8dfda0bede6d7954c9160b098be351a378445e

Deleted: sha256:c4818b0f52b4d25967b6bc83b234bdeb3de3addaaf9e09791debd34259da1817

Deleted: sha256:edf6d73486616a289a7886cc38684113c40190eca67ec10c46a1c66e0a6e9684

Deleted: sha256:ea35d275ce251b51744204fc9bcce8dfc1df8d6572ded4322db469f8edcd3069

Deleted: sha256:2dc68d0c4120471e51395bd00753e7eec9b38c35a76967a79b217583e12c82d1

Finished: SUCCESS
```

😅 성공..

Openvidu 설치(8443 port)

.

```
# 배포를 위한 권한 얻기
sudo su
# 위치이동
cd /opt
# openvidu 다운
curl <https://s3-eu-west-1.amazonaws.com/aws.openvidu.io/install_openvidu_latest.sh> | bash
# 위치이동
cd openvidu
# 환경 설정
nano .env
```

```
# COUNTING TO BE ALL STREET OF THE PROPERTY OF
```

- DOMAIN_OR_PUBLIC_IP=자신 도메인의 주소
- OPENVIDU_SECRET=원하는 비밀번호
- CERTIFICATE_TYPE=nginx로 했을땐 letsencrypt 고정
- LETSENCRYPT_EMAIL=정보확인용 개인 이메일
- HTTP PORT=HTTP용 포트
- HTTPS_PORT=HTTPS용 포트
- 위 두 항목은 원하는 값을 주면 되는데 사전에 certbot을 통해 letsencrypt 인증을 받았을 경우 설정을 하나 더 해준다.

nano docker-compose.yml

• 들어가서 쭉 내리다보면 nginx부분이 있다.

```
nginx:
       umage: openvidu/openvidu-proxy:2.25.0
       restart: always
       volumes:
             - /etc/letsencrypt:/etc/letsencrypt
             - ./custom-nginx-vhosts:/etc/nginx/vhost.d/
             - ./custom-nginx-locations:/custom-nginx-locations
             - ${OPENVIDU_RECORDING_CUSTOM_LAYOUT}:/opt/openvidu/custom-layout
       environment:
             - DOMAIN_OR_PUBLIC_IP=${DOMAIN_OR_PUBLIC_IP}
             - CERTIFICATE_TYPE=${CERTIFICATE_TYPE}
- LETSENCRYPT_EMAIL=${LETSENCRYPT_EMAIL}
- PROXY_HTTP_PORT=${HTTP_PORT:-}
- PROXY_HTTPS_PORT=${HTTPS_PORT:-}
             - PROXY HTTPS PROTOCOLS=${HTTPS PROTOCOLS:-}
             - PROXY_HTTPS_CIPHERS=${HTTPS_CIPHERS:-}
- PROXY_HTTPS_HSTS=${HTTPS_HSTS:-}
- ALLOWED_ACCESS_TO_DASHBOARD=${ALLOWED_ACCESS_TO_DASHBOARD:-}
- ALLOWED_ACCESS_TO_RESTAPI=${ALLOWED_ACCESS_TO_RESTAPI:-}
             - PROXY_MODE=CE
             - WITH_APP=true
             - SUPPORT_DEPRECATED_API=${SUPPORT_DEPRECATED_API:-false}
- REDIRECT_WWW=${REDIRECT_WWW:-false}
- WORKER_CONNECTIONS=${WORKER_CONNECTIONS:-10240}
             - PUBLIC IP=${PROXY PUBLIC IP:-auto-ipv4}
       logging:
             options:
                   max-size: "${DOCKER LOGS MAX SIZE:-100M}"
```

- 기존에는 ./certificates:/etc/letsencrypt 라고 되어 있을 것이다.
- 이를 나의 native 인증키가 저장된 곳과 바운딩 시켜주자.
- 이후 openvidu를 실행한다.

./openvidu start

• 그러면 해당 url 접속시 아래와 같은 화면이 나온다.



Redis(6379 port)

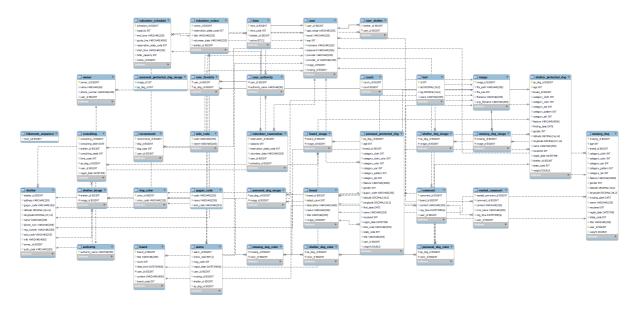
```
docker pull redis:latest

docker run --name patpat-redis -d redis redis-server --save 60 1 --loglevel warning --requirepass patpat104
```

포테이너로 해당 컨테이너 가서 콘솔로 드간다.

```
# 접속하기
redis-cli -p 6379
# 슈퍼 계정 만들기
ACL SETUSER [유저네임] on >[비밀번호] allkeys allcommands
auth [유저네임] [비밀번호]
또는 redis-cli 밖에서 실행함때
redis-cli --user [유저네임] --pass [비밀번호] -p 6379
```

최종 ERD



db port : 3306 user : root

password: patpat104