

# 포팅 매뉴얼

## 1. 기술 스택

이슈 관리	Jira
버전 컨트롤	GitLab
커뮤니케이션	Mattermost, Notion
MySQL	8.0.28
OpenJDK	11.0.15
Spring Boot	2.6.6
Redis	7.0.0

Server	AWS EC2
DevOps	Docker
DevOps	Jenkins
React	17.0.2
Redux	4.2.0

## 2. 빌드 내용

### Front (빌드)

```
npm install --save --legacy-peer-deps

npm run build
```

### Front (배포)

```
docker build -t 허브ID/forestkeeper-frontend:lts .

docker run \
--network forestkeeper-network \
--name forestkeeper-frontend \
-p 3000:3000 \
-e TZ=Asia/Seoul \
-d 허브ID/forestkeeper-frontend:lts
```

### Back (빌드)

```
gradlew clean build -x test
```

### Back (배포)

```
docker build -t kibum414/forestkeeper-backend:lts .

docker run \
--network forestkeeper-network \
--name forestkeeper-backend \
```

```
-p 8080:8080 -p 8443:8443 \  
-e TZ=Asia/Seoul \  
-e JAVA_TOOL_OPTIONS="-Dspring.profiles.active=prod" \  
-d kibum414/forestkeeper-backend:lts
```

## Redis

```
docker run --network forestkeeper-network --name forestkeeper-redis \  
-p 6379:6379 -dit --restart unless-stopped redis
```

## 3. 배포 환경

### CI/CD

GitLab Webhook, Docker, Jenkins

## Docker

- **Docker Network**

forestkeeper-network

- **Docker Container**

```
forestkeeper-frontend (:3000) (forestkeeper-frontend:lts)  
forestkeeper-backend (:8443) (forestkeeper-backend:lts)  
forestkeeper-db (:3306) (mysql:8.0)  
forestkeeper-redis (:6379) (redis)  
forestkeeper-jenkins (:9090) (jenkins:lts)
```

## Jenkins

Freestyle Project - /project/forestkeeper

## 4. DB 정보

### 계정 정보

```
username: forestkeeper  
password: forestkeeper306!
```

## 계정 및 Database 설정

- 계정 생성

- `root` 계정에서 생성

```
create user 'forestkeeper'@'%' identified by 'forestkeeper306!';
```

- 권한 부여

- `root` 계정과 동일

```
grant all privileges on *.* to 'forestkeeper'@'%' with grant option;

flush privileges;
```

- 스키마(DB) 생성

- `forestkeeper` 계정에서 생성

```
create database if not exists forestkeeper_db collate utf8mb4_general_ci;
```

- Docker Container 실행

```
docker run \
-p 3306:3306 \
--network forestkeeper-network \
--name forestkeeper-db \
-v forestkeeper-db-volume:/var/lib/mysql \
-e TZ=Asia/Seoul \
-e MYSQL_ROOT_PASSWORD=forestkeeper306! \
-d mysql:8.0
```

- forestkeeper-db 컨테이너 접속

```
docker exec -it forestkeeper-db bash
```