

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
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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
```