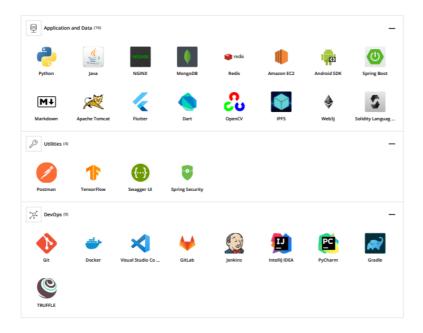
포팅메뉴얼

1. 프로젝트 구성도

기술 스택(stackshare)



시스템 아키텍쳐

2. Spring 서버 ec2 세팅

Server spec : t2.micro os : Amazon Linux 2

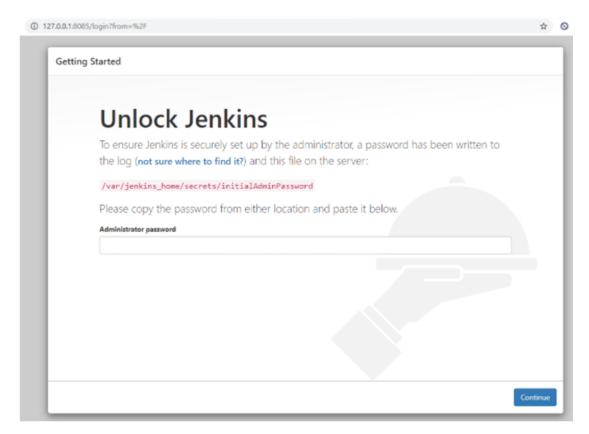
docker 설치

```
// 핵기지 업데이트
sudo apt update
// https관련 패키지 설치
sudo apt install apt-transport-https ca-certificates curl software-properties-common
// docker repository 접근을 위한 gpg 키 설정
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
// docker repository 등록
sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"
// 도거 업데이트
sudo apt update
// 도커 설치
sudo apt install docker-ce
// 설치 확인
docker --version
```

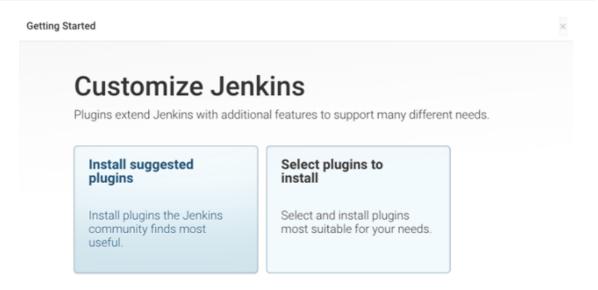
3. jenkins 서버 ec2 세팅

```
// Jenkins 설치

// 젠킨스 이미지 다운로드
docker pull jenkins/jenkins:lts
// 젠킨스 컨테이너 설치 및 실행
docker run -itd -p 8080:8080 -v /jenkins:/var/jenkins_home -name jenkins -u root jenkins/jenkins:lts
```





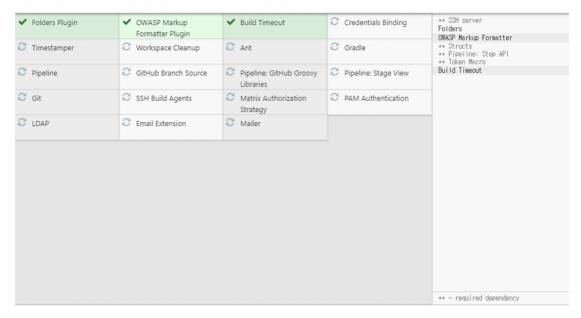


Install suggested plugins 설치

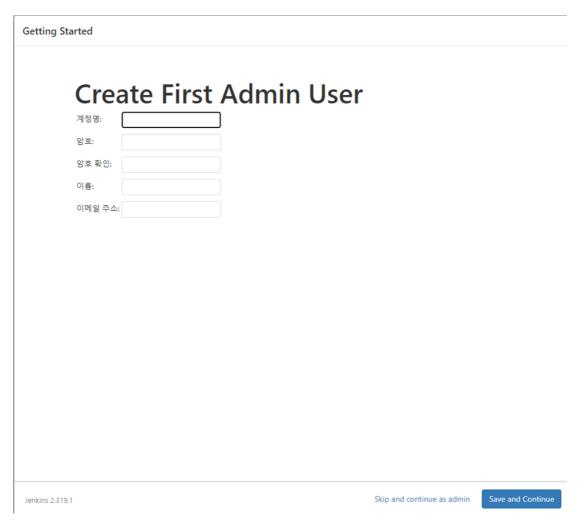
Getting Started

Getting Started



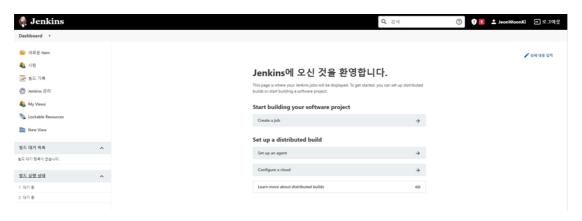


Jenkins 2.319.1



설치가 완료되면 계정의 정보 입력

4. Jenkins 파이프라인 생성



필요 플러그인 설치

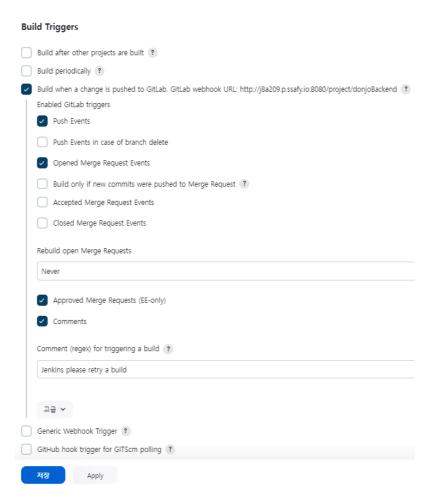
- Generic Webhook Trigger Plugin
- GitLab
- Gitlab API Plugin
- GitLab Authentication plugin
- Mattermost Notification Plugin
- Publish Over SSH

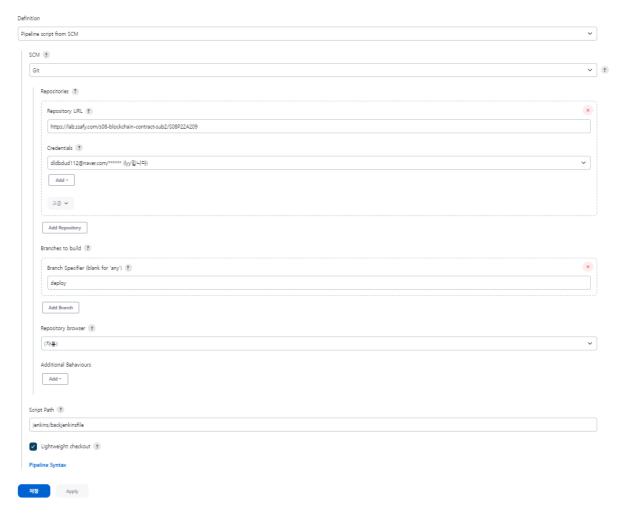
Credentials



Jenkins 관리 \rightarrow Manage Credentials \rightarrow Credentials 등록

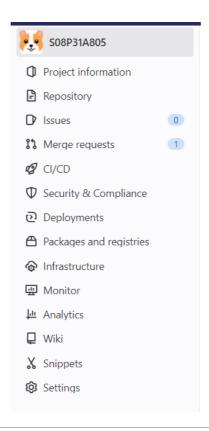
Item 생성(Pipeline)





설정 셋팅하기

5. Webhook 연결(Build Triggers URL과 Secret token 복사)



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://k8a805.p.ssafy.io:8800/project/backend-springboot

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 ${\tt X-Gitlab-Token}$ HTTP header.

Trigger

Push events

deploy

Push to the repository.

Tag push events

A new tag is pushed to the repository.

GitLab → Settings → WebURL Secret token 복사 붙여넣기

6. 프로젝트 이미지 생성 후 컨테이너 띄우기

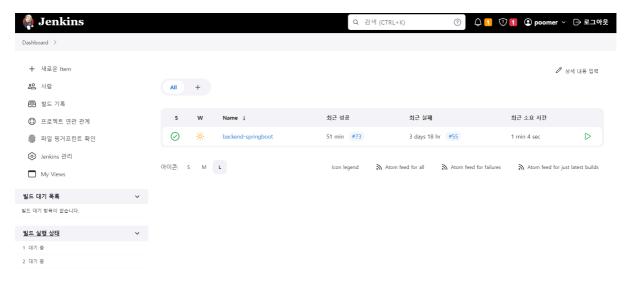
Backend Pipeline

```
stage('벡앤트 이미지 생성'){
    steps{
        dir('backend'){
            sh "./gradlew bootBuildImage"
        }
    }
    stage('벡앤트 컨테이너 삭제'){
        steps{
            catchError{
            sh "docker rm --force backend"
        }
    }
    stage('벡앤트 컨테이너 생성') {
        steps {
            sh "docker run -d -p 8080:8080 -v /etc/localtime:/etc/localtime:ro -e TZ=Asia/Seoul -e LC_ALL=C.UTF-8 --name backend backend:0.0.1-SNAPSHOT"
    }
    }
}
}
```

Backend DockerFile

```
FROM openjdk:11-jdk
WORKDIR /app
COPY . .
RUN ls /app/src/main/resources/ # 이 줄 추가
ARG JAR_FILE=build/libs/backend-0.0.1-SNAPSHOT.jar
COPY $(JAR_FILE) docker-springboot.jar
ENTRYPOINT ["java","-Djava.security.egd=file:/dev/./urandom","-jar","/app/docker-springboot.jar"]
```

Pipeline 생성 결과



7. Redis생성

```
// Redis Docker 이미지 다운로드
docker pull redis
// Redis Docker 컨테이너 생성 및 실행
docker run -d --name my-redis -e TZ=Asia/Seoul -p 6379:6379 redis redis-server --requirepass poompwd1234
// Docker 컨테이너 리스트 출력
docker ps -a
```

8. Nginx 설정

```
server {
   listen 80 ;
```

```
listen [::]:80 ;
server_name k8a805.p.ssafy.io;
     # 리다이렉트를 위한 설정
     return 301 https://$server_name$request_uri;
server {
     listen [::]:443 ssl;
listen 443 ssl;
     server_name k8a805.p.ssafy.io;
     client max body size 25M:
     # SSL 인증서와 관련된 설정
     ssl_certificate /etc/letsencrypt/live/k8a805.p.ssafy.io/fullchain.pem;
     ssl\_certificate\_key / etc/letsencrypt/live/k8a805.p.ssafy.io/privkey.pem; include / etc/letsencrypt/options-ssl-nginx.conf; \\
     {\tt ssl\_dhparam\ /etc/letsencrypt/ssl-dhparams.pem;}
     # 실제 서비스를 제공하는 설정
     root /home/ubuntu/landing;
     index index.html index.htm index.nginx-debian.html;
     location / {
          try_files $uri $uri/ =404;
    location /webui {
        proxy_pass http://localhost:5001;
proxy_set_header Host $host;
     location ~ ^{\prime}api2 {
         proxy_pass http://localhost:8700;
         proxy_set_header Host $host;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
         proxy_set_header X-Forwarded-Proto $scheme;
     location ~ ^{\wedge}/(api|swagger|webjars|configuration|swagger-resources|v2|v3|csrf)~\{
          proxy pass http://localhost:8080:
          proxy_set_header Host $host;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
          proxy_set_header X-Forwarded-Proto $scheme;
```

9. Blockchain 엔드포인트 설정

Infura를 통해 Sepolia 체인의 엔드포인트를 발급 받습니다.

