



포팅매뉴얼

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CI/CD

▼ nginx

- nginx version: nginx/1.18.0 (Ubuntu)

```
##
# You should look at the following URL's in order to grasp a solid understanding
# of Nginx configuration files in order to fully unleash the power of Nginx.
# https://www.nginx.com/resources/wiki/start/
# https://www.nginx.com/resources/wiki/start/topics/tutorials/config_pitfalls/
# https://wiki.debian.org/Nginx/DirectoryStructure
#
# In most cases, administrators will remove this file from sites-enabled/ and
# leave it as reference inside of sites-available where it will continue to be
# updated by the nginx packaging team.
#
# This file will automatically load configuration files provided by other
# applications, such as Drupal or Wordpress. These applications will be made
# available underneath a path with that package name, such as /drupal8.
#
# Please see /usr/share/doc/nginx-doc/examples/ for more detailed examples.
##

# Default server configuration
#

# Virtual Host configuration for example.com
#
# You can move that to a different file under sites-available/ and symlink that
# to sites-enabled/ to enable it.
#

server {
```

```

# SSL configuration
#
# listen 443 ssl default_server;
# listen [::]:443 ssl default_server;
#
# Note: You should disable gzip for SSL traffic.
# See: https://bugs.debian.org/773332
#
# Read up on ssl_ciphers to ensure a secure configuration.
# See: https://bugs.debian.org/765782

# Self signed certs generated by the ssl-cert package
# Don't use them in a production server!
#
# include snippets/snakeoil.conf;

root /var/www/html;

# Add index.php to the list if you are using PHP
index index.html index.htm index.nginx-debian.html;
server_name k9a504.p.ssafy.io; # managed by Certbot


location /api {
    proxy_pass http://localhost:8000/api;
    # First attempt to serve request as file, then
    # as directory, then fall back to displaying a 404.
    # try_files $uri $uri/ =404;
}

location /docs {
    proxy_pass http://localhost:8000/docs;
}

location / {
    proxy_pass http://localhost:3000;
}

location /gpt {
    proxy_pass http://localhost:5000/gpt;
}

location /__/auth {
    proxy_pass https://a504-qookie.firebaseio.com;
}


# pass PHP scripts to FastCGI server
#
#location ~ \.php$ {
#    include snippets/fastcgi-php.conf;
#
#    # With php-fpm (or other unix sockets):
#    fastcgi_pass unix:/var/run/php/php7.4-fpm.sock;
#    # With php-cgi (or other tcp sockets):
#    fastcgi_pass 127.0.0.1:9000;
#}

# deny access to .htaccess files, if Apache's document root
# concurs with nginx's one
#
#location ~ /\.ht {
#    deny all;
#}


listen [::]:443 ssl ipv6only=on; # managed by Certbot
listen 443 ssl; # managed by Certbot
ssl_certificate /etc/letsencrypt/live/k9a504.p.ssafy.io/fullchain.pem; # managed by Certbot
ssl_certificate_key /etc/letsencrypt/live/k9a504.p.ssafy.io/privkey.pem; # managed by Certbot
include /etc/letsencrypt/options-ssl-nginx.conf; # managed by Certbot
ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot
}

```

```
server {
    listen 80;
    listen [::]:80;
    if ($host = k9a504.p.ssafy.io) {
        return 301 https://$host$request_uri;
    } # managed by Certbot

    server_name k9a504.p.ssafy.io;
    return 404; # managed by Certbot
}
```

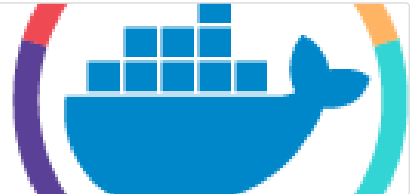
▼ docker

- Docker version 24.0.6, build ed223bc

Install Docker Engine on Ubuntu

Jumpstart your client-side server applications with Docker Engine on Ubuntu. This guide details prerequisites and multiple methods to install Docker Engine on Ubuntu.

 <https://docs.docker.com/engine/install/ubuntu/>



▼ jenkins

- **Version 2.414.3**
- jenkinsfile 통해 파이프라인 구축 및 프론트엔드, 백엔드 빌드
- docker-out-of-docker 방식으로 Jenkins Image 내부 docker에서 host의 docker socket 접근

```
docker run -d \
-v jenkins_home:/var/jenkins_home \
-v /var/run/docker.sock:/var/run/docker.sock \ # docker socket 연결
-p 8080:8080 -p 50000:50000 --restart=on-failure \ # 8083으로 포트 변경
--user=jenkins --group-add 998 \
--name=jenkins jenkins/jenkins:latest
```

- jenkins container 내에 docker 설치

```
docker exec -it -u root {JenkinsContainerName} /bin/bash # 젠킨스 컨테이너 내의
cat /etc/os-release # OS 버전 확인 후 docker 공식문서 참고하여 설치
```

▼ jenkinsfile

```
pipeline {
    agent any
    stages {
        stage("Clone") {
            steps {
                git branch: 'test',
                    credentialsId: 'jenkins_hunn000',
                    url: 'https://lab.ssafy.com/s09-final/S09P31A504.git'
            }
        }
        stage("Build Frontend") {
            steps {
                dir("./frontend") {
                    // stop running containers and remove images
                    sh "docker stop frontend || true"
                    sh "docker rm frontend || true"

                    sh "docker build -t frontend ."
                    sh "docker run -v /front_nginx_log:/var/log/nginx -p 127.0.0.1:3000:80 -d --name frontend frontend"
                }
            }
        }
    }
}
```

```

    }
  }
  stage("Copy Secrets & Stop Containers") {
    steps {
      dir (".") {
        sh "docker stop backend_server || true"
        sh "docker stop backend_python || true"
        sh "docker stop backend_redis || true"
        sh "docker stop backend_rabbitmq || true"

        sh "docker rm backend_server || true"
        sh "docker rm backend_python || true"
        sh "docker rm backend_redis || true"
        sh "docker rm backend_rabbitmq || true"

        sh "docker ps -a"
      }

      dir (".backend") {
        // copy application-secret to cloned repo
        sh "rm ./src/main/resources/application-secret.yml || true"
        sh "cp /var/jenkins_home/secrets/application-secret.yml ./src/main/resources/"

        // copy a504-qookie-firebase-adminsdk-key.json to cloned repo
        sh "rm ./src/main/resources/a504-qookie-firebase-adminsdk-key.json || true"
        sh "cp /var/jenkins_home/secrets/a504-qookie-firebase-adminsdk-key.json ./src/main/resources/"
      }

      dir (".") {
        // copy .env file for docker compose to cloned repo
        sh "rm ./env || true"
        sh "cp /var/jenkins_home/secrets/.env ."
      }
    }
  }

  stage("Build Backend") {
    steps {
      dir (".") {
        sh "docker compose up --build -d"
      }
    }
  }
}
}
}

```

프론트엔드

특이사항

- dockerfile 사용하여 build 후 nginx로 배포

환경설정

- .env, package.json, dockerfile, default.conf(nginx 설정파일)는 소스코드에 포함

백엔드

특이사항

- docker-compose를 통해 각 container dockerfile을 실행시켜 빌드

환경설정

- ▼ .env (jenkins docker container 내의 jenkins_home/secrets/ 에 위치)

```
REDIS_PASSWORD=ss501ss501
RABBITMQ_USER=newjeans
RABBITMQ_PASSWORD=ss501ss501
GPT_API_KEY={GPT_API_KEY}
```

▼ application-secrets.yml (jenkins docker container 내의 jenkins_home/secrets/ 에 위치)

```
spring:
  datasource:
    driver-class-name: com.mysql.cj.jdbc.Driver
    url: jdbc:mysql://database-1.c4jdluaykrgh.ap-northeast-2.rds.amazonaws.com:3306/qookie_db
    username: admin
    password: ss501ss501

  jpa:
    open-in-view: false
    hibernate:
      ddl-auto: update
      show_sql: true
      format_sql: true
      use_sql_comments: true
      dialect: org.hibernate.dialect.MySQLInnoDBDialect

  jwt:
    secret: "reallysecretkey" # 암호화 Key
    access-expiration: 1800000 # 30분
    refresh-expiration: 1209600000 # 14일

  redis:
    host: k9a504.p.ssafy.io
    port: 6379
    password: ss501ss501

# s3 config
cloud:
  aws:
    credentials:
      access-key: {S3_ACCESS_KEY}
      secret-key: {S3_SECRET_KEY}
    region:
      static: ap-northeast-2
    s3:
      bucket: bangle
    stack:
      auto: false
    prefix:
      url: https://bangle.s3.ap-northeast-2.amazonaws.com/
```

Spring Boot

- Java 17, Spring Boot 3.1.4 사용
- dockerfile 및 build.gradle은 소스코드에 포함

Python

- Python 3.8 사용
- dockerfile 및 requirements.txt는 소스코드에 포함

외부 서비스 정보

- OpenAI GPT API
- Amazon S3, RDS

DB 덤프

여기에 DB 덤프

시연 시나리오

여기에 시연 시나리오