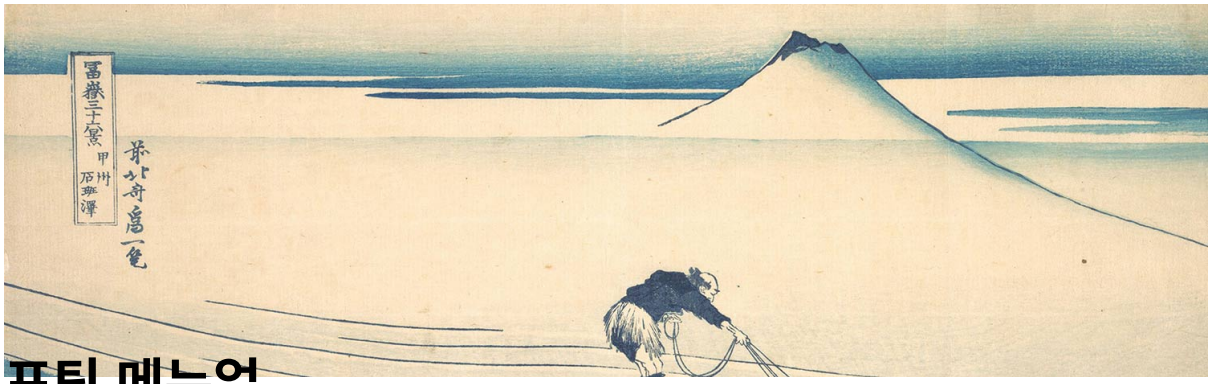


포팅 메뉴얼

작성해야 하는거

ci/cd

Swagger:	http://3.36.125.122:8082/swagger-ui/index.html
jenkins	http://3.36.125.122:8080/ id :wonik pw:
mariaDB	server root 비밀번호 : 1234 hostname : 54.180.202.20 port : 3306 user : ssafy 비밀번호 : ssafy1111
mongoDB	compass 연결 uri : mongodb://ssafy:ssafy1111@3.36.125.122:27017/?authMechanism=DEFAULT&authSource=admin port : 27017 user : ssafy pwd: ssafy1111
aws S3 Object Storage	ID : S101SSAFY@gmail.com pw : Ssafy101!
S3 IAM	ID: Administrator PW: ssafy1111@ access key : AKIA5Z3I5G4VISKY7QLC secret access key : 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

목차

1. 사용 도구

- 이슈 관리 : Jira
- 형상 관리 : GitLab
- 커뮤니케이션 : Notion, MatterMost
- 디자인 : Figma
- CI/CD : Jenkins

2. 개발 도구

- Visual Studio Code : 1.76.0
- Intellij : 2022.3.2 (Ultimate Edition)
- Terminus

3. 개발 환경

▼ 상세 내용

Frontend

Node.js	18.13.0
React	18.2.0
Redux	8.0.5
Axios	1.3.6
Apexcharts	3.39.0
Echarts	5.4.2
Jwt-decode	3.1.2

Backend

Java	openjdk version "11.0.18" 2023-01-17 LTS
Spring Boot	2.7.9
Python	3.8.12
Pandas	1.3.4
Numpy	1.20.3
Torch	1.12.0

Server

AWS S3	
AWS EC2	CPU : Intel(R) Xeon(R) CPU E5-2686 v4 @ 2.30GHz RAM : 15GB OS : Ubuntu

Service

MongDB	6.0.5
NginX	1.18.0
Jenkins	2.387.2
Docker	23.0.4
Ubuntu	Ubuntu 20.04 LTS

4. 환경변수 형태(추후 변경)

- Backend

  ▼ application.yml

```
spring:
  mvc:
    pathmatch:
      matching-strategy: ant_path_matcher

  data:
    mongodb:
      uri: mongodb://ssafy:ssafy1111@3.36.125.122:27017/admin?authMechanism=SCRAM-SHA-256&authSource=admin
      database: admin

  jpa:
    defer-datasource-initialization: true

    hibernate:
      ddl-auto: update
    show-sql: true

jwt:
  token:
    secret: VlwEyVBsYt9V7zq57TejMnVUyzblYcfPQye08f7MGVA9XkHa

cors:
  allowed-origins:
    - 'http://localhost:3000'
    - 'http://k8s101.p.ssafy.io:3000'
    - 'http://3.36.125.122:3000'
    - 'https://k8s101.p.ssafy.io'
  allowed-methods: GET,POST,PUT,DELETE,OPTIONS
  allowed-headers: '*'
  max-age: 3600

server:
  servlet:
    context-path: /be
  ssl:
    enabled: false
  port: 8080
```

5. CI/CD 구축

MongoDB

▼ 상세 내용

몽고 죽으면 conf 파일 다시 설정

```
chown -R mongodb:mongodb /var/lib/mongodb
chown mongodb:mongodb /tmp/mongodb-27017.sock
```

Jenkins

▼ 상세 내용

▼ BE

▼ Jenkins 설정

https://s3-us-west-2.amazonaws.com/secure.notion-static.com/93ce2c87-306b-42a0-a96c-7a15819ce210/be_manual.pdf

▼ Dockerfile

```
FROM openjdk:11-jdkARG JAR_FILE=build/libs/*.jarCOPY ${JAR_FILE} app.jarENTRYPOINT ["java","-jar","/app.jar"]
```

▼ FE

▼ Jenkins 설정

https://s3-us-west-2.amazonaws.com/secure.notion-static.com/1e02b304-ec91-4967-8382-3a560fe0a02d/fe_manual.pdf

▼ Dockerfile

FROM nginx:latest
COPY . /usr/share/nginx/html

▼ Nginx

▼ nginx.conf

```
user www-data;
worker_processes auto;
pid /run/nginx.pid;
include /etc/nginx/modules-enabled/*.conf;
events {
worker_connections 768;
multi_accept on;
}
http {
 ##
    # Basic Settings
    ##

    sendfile on;
    tcp_nopush on;
    tcp_nodelay on;
    keepalive_timeout 65;
    types_hash_max_size 2048;
    # server_tokens off;

    # server_names_hash_bucket_size 64;
    # server_name_in_redirect off;

    include /etc/nginx/mime.types;
    default_type application/octet-stream;

    ##
    # SSL Settings
    ##

    ssl_protocols TLSv1 TLSv1.1 TLSv1.2 TLSv1.3; # Dropping SSLv3, ref: POODLE
    ssl_prefer_server_ciphers on;

    ##
    # Logging Settings
    ##

    access_log /var/log/nginx/access.log;
    error_log /var/log/nginx/error.log;

    ##
    # Gzip Settings
    ##

    gzip on;

    # gzip_vary on;
    # gzip_proxied any;
    # gzip_comp_level 6;
    # gzip_buffers 16 8k;
    # gzip_http_version 1.1;
    # gzip_types text/plain text/css application/json application/javascript text/xml application/xml application/xml+rss

    ##
    # Virtual Host Configs
    ##

    include /etc/nginx/conf.d/*.conf;
    include /etc/nginx/sites-enabled/*;
```

```
    proxy_request_buffering off;
}
#mail {
# See sample authentication script at:
# http://wiki.nginx.org/ImapAuthenticateWithApachePhpScript
# auth_http localhost/auth.php;
# pop3_capabilities "TOP" "USER";
# imap_capabilities "IMAP4rev1" "UIDPLUS";
server {
listen localhost:110;
protocol pop3;
proxy on;
}
server {
listen localhost:143;
protocol imap;
proxy on;
}
#}
```

▼ conf.d

```
server {
location / {
    proxy_pass <http://localhost:3000>;
    proxy_request_buffering off;
    proxy_buffering off;
}

location /be {
    proxy_pass <http://localhost:8082/be>;
    proxy_request_buffering off;
    proxy_buffering off;
}

location /Admin {
    try_files $uri $uri/ /index.html;
    root /usr/share/nginx/html;
    index index.html;
}

listen [::]:443 ssl ipv6only=on; # managed by Certbot
listen 443 ssl; # managed by Certbot

ssl_certificate /etc/letsencrypt/live/k8s101.p.ssafy.io/fullchain.pem; # managed by Certbot
ssl_certificate_key /etc/letsencrypt/live/k8s101.p.ssafy.io/privkey.pem; # managed by Certbot
}
server {
if ($host = k8s101.p.ssafy.io) {
return 301 https://$host$request_uri;
} # managed by Certbot

server_name k8s101.p.ssafy.io;
return 404; # managed by Certbot}
```

원격 서버 접속 후 감지시스템

▼ 상세 내용

docker run -p 8282:22 --name test -d test

컨테이너 시작 후

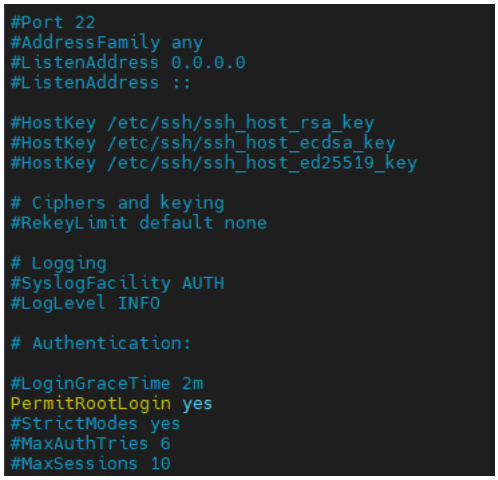
sudo apt-get update
sudo apt-get install openssh-server

vim /etc/ssh/sshd_config

ListenAddress 열기

PermitRootLogin yes 로 바꾸기

재시작



ssh root@3.36.125.122 -p 8282

passwd root

service ssh start

apt install inotify-tools

파이썬 백그라운드 실행

nohup python filename.py &

tail -f nohup.out (로그확인)

ps -ef | grep filename.py(백그라운드 작업 확인 가능)

kill {your ProcessId}(백그라운드 작업 중지)

Nginx

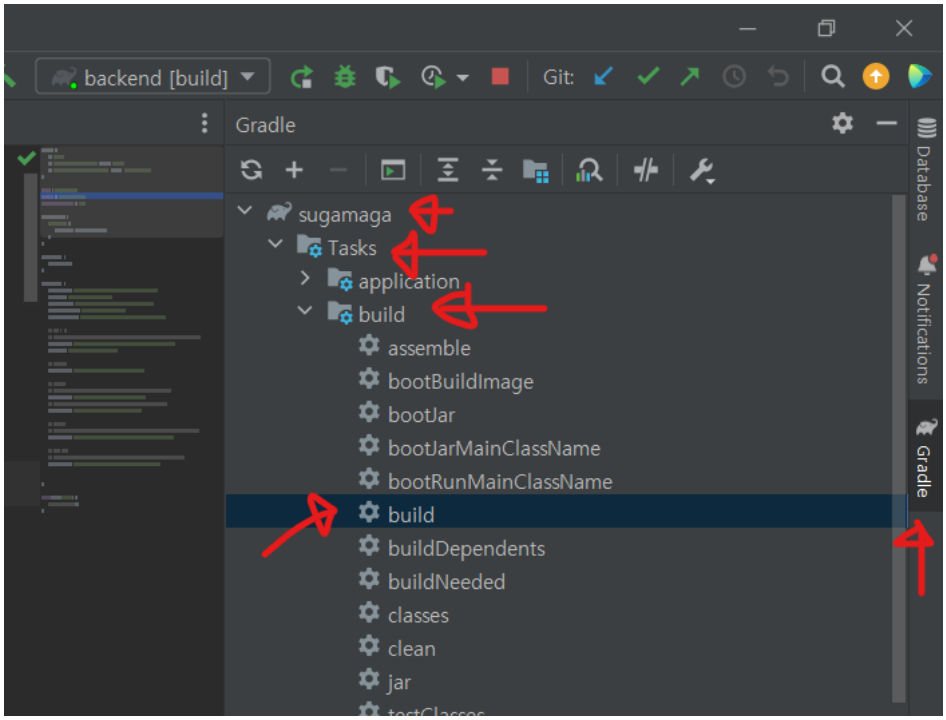
- 링크

6. 빌드 및 실행

▼ 상세 내용

Spring Boot

- Intellij → Gradle → [프로젝트 명] → Task → build → build 더블클릭



- ~\backend\build\libs에서 터미널 실행
- 터미널에서 `java -jar sugamaga-0.0.1-SNAPSHOT.jar` 입력하여 실행

React

-

7. 외부 서비스 사용

▼ BE

▼ Jenkins 설정

https://s3-us-west-2.amazonaws.com/secure.notion-static.com/93ce2c87-306b-42a0-a96c-7a15819ce210/be_manual.pdf

▼ Dockerfile

```
FROM openjdk:11-jdkARG JAR_FILE=build/libs/*.jarCOPY ${JAR_FILE} app.jarENTRYPOINT ["java","-jar","/app.jar"]
```

▼ FE

▼ Jenkins 설정

https://s3-us-west-2.amazonaws.com/secure.notion-static.com/1e02b304-ec91-4967-8382-3a560fe0a02d/fe_manual.pdf

▼ Dockerfile

```
FROM nginx:latest
COPY . /usr/share/nginx/html
```