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I. 기술 스택 & 개발 환경

1. 사용 도구



사용도구

- 이슈 관리: JIRA
- 형상 관리: GitLab
- 커뮤니케이션: Mattermost, Notion, Google Docs, Kakao Talk
- 디자인: Figma
- UCC: Movavi
- CI/CD: EC2, Docker, Jenkins

2. 개발도구



개발도구

- Visual Studio Code
- IntelliJ IDEA: 2024.1.4 u
- JDK: java 17.0.11 2024-04-16 LTS
-

3. 개발환경

3-1. 개발환경 및 외부서비스(API)



개발환경 및 외부서비스

- Front-end
 - Node.js: 18.20
 - React: 18.2.0
 - Typescript: 4.9.5
 - ESLint: 8.57.0
 - typescript-eslint: 7.16.0
- Back-end
 - JDK: 17.0.10 LTS
 - SpringBoot: 3.2.3
 - SpringSecurity
 - jjwt-api:0.11.5
 - Gradle: 8.5
 - Spring Jpa 3.3
- DB
 - Mysql: 8.0
 - Redis
- Infra
 - AWS EC2: Ubuntu 20.04.6 LTS
 - Docker: 25.0.4
 - Jenkins: 2.448
 - Nginx: 1.18.0 (Ubuntu)
 - Elasticsearch 7.6
 - Kibana 7.6
 - Logstash 9.6
 - Kafka 3.8

- Grafana 9.52
- Prometheus

3-2. 환경변수

[Back 환경 변수]

```
## mysql
spring.datasource.url=jdbc:mysql://??/catchcatch?autoReconnec
spring.datasource.username=root
spring.datasource.password=각자의 비밀번호
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.jpa.show-sql=true
spring.jpa.hibernate.ddl-auto= create
spring.jpa.properties.hibernate.format_sql=true

## jwt
jwt.secret = sjkinrjekaijglkjgljaghjladfhrerguihaeruihgnlsdzf
jwt.access-token-expire = 144000000

## sms
sms.api-key=NCSZAEZJNWS2PJW
sms.api-secret=TBCPNJBYQLZ8XDDEDQRM2R5IPCS9NZLE
sms.sms-provider=01029463517

## osiv
spring.jpa.open-in-view=false

## redis
spring.data.redis.host=i11b101.p.ssafy.io
spring.data.redis.port=6379
```

```

# oauth kakao
spring.security.oauth2.client.registration.kakao.client-id=9d
spring.security.oauth2.client.registration.kakao.client-secre
spring.security.oauth2.client.registration.kakao.redirect-uri
spring.security.oauth2.client.registration.kakao.authorization
spring.security.oauth2.client.registration.kakao.client-auth
spring.security.oauth2.client.registration.kakao.client-name=
spring.security.oauth2.client.registration.kakao.scope= profi
spring.security.oauth2.client.provider.kakao.authorization-ur
spring.security.oauth2.client.provider.kakao.token-uri = http
spring.security.oauth2.client.provider.kakao.user-info-uri =
spring.security.oauth2.client.provider.kakao.user-name-attrib

# oauth google
spring.security.oauth2.client.registration.google.client-id =
spring.security.oauth2.client.registration.google.client-secre
spring.security.oauth2.client.registration.google.scope = pro
spring.security.oauth2.client.registration.google.redirect-ur

## naver cloud
naver.cloud.id=8sugutuo9v
naver.cloud.secret=H4XFAc6CG5TiJ286KrAIGFNhbkkgOSp6c1uHMMk30

## openai
openai.model=gpt-4o-mini
openai.image.model=dall-e-3
openai.api.key=sk-proj-PkRxsSCYZmJcpXyhZttFT3BlbkFJTditk1cvuI
openai.api.url= https://api.openai.com/v1/chat/completions
openai.api.create-image-url=https://api.openai.com/v1/images/

## aws
cloud.aws.s3.bucket=everstarbucket
cloud.aws.credentials.access-key=AKIAQGYBQCQ4GYHL3YXF
cloud.aws.credentials.secret-key=wFQKM9szybNnm5a8sFwJCHaQGjRs
cloud.aws.region.static=ap-northeast-2
cloud.aws.region.auto=false
cloud.aws.stack.auto=false

```

```
## file upload
spring.servlet.multipart.max-file-size=10MB
spring.servlet.multipart.max-request-size=10MB

##openvidu
openvidu.url=https://i11b101.p.ssafy.io:4443/
openvidu.secret=pdw06135

#kafka
spring.kafka.producer.bootstrap-servers=http://i11b101.p.ssafy.io:9092
spring.kafka.consumer.group-id=group_1
spring.kafka.consumer.group=group

## diffusion ai
diffusionai.model=anything-v5
diffusionai.api.key=je0b8nKM7u06bxToSpz37MIKwH0uPDCAB3MUTbtoX
diffusionai.api.url=https://modelslab.com/api/v6/images/img2img
```

II. CI / CD 구축

1. 기본설정

1-1. Docker 기본설정

1. Docker 설치

```
$ sudo apt-get update
$ sudo apt-get install \
    ca-certificates \
    curl \
    gnupg
```

2. Docker 공식 GPG 키 추가

```
$ sudo mkdir -m 0755 -p /etc/apt/keyrings
$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg
```

3. Docker Repository 설치

```
$ echo \
"deb [arch="$(dpkg --print-architecture)" signed-by=/etc/
"$(. /etc/os-release && echo "$VERSION_CODENAME)" stable
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

4. Docker 설치

```
$ sudo apt-get install docker-ce docker-ce-cli containerd.io
```

5. Docker 실행 테스트

```
$ sudo docker run hello-world

# 실행된 도커 컨테이너 확인
$ sudo docker ps

# 이미지 확인
$ sudo docker images
```

6. Docker compose 설치

```
$ sudo curl -L "https://github.com/docker/compose/releases
# 다운로드한 도커 컴포즈 파일을 실행 가능하도록 다운로드한 경로에 권한을
$ sudo chmod +x /usr/local/bin/docker-compose

$ sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker

확인
$ docker-compose -v
```

III. 빌드 및 배포

0. EC2 포트번호

- 80 http
- 443 ssl
- 22 ssh
- 4443 openvidu
- 5061 kibana
- 4000 grafana

1. Local Build



[Front] 개발 환경에서 직접 빌드

1. 의존성 설치
npm install
2. 프로젝트 빌드 (정적 파일 생성)
npm run build
3. docker 이미지 build
docker build -t 0/0
4. docker 허브 이미지 올리기
docker push 0/0



[Back] 개발 환경에서 직접 빌드

1. 프로젝트 빌드

```
./gradlew clean build
```

2. docker 이미지 build

```
docker build -t 0/0
```

3. docker 허브에 이미지 올리기

```
docker push 0/0
```

2. Deployment



배포 시 빌드(jenkins 파이프라인)

▼ [Back - server] Jenkins 파이프라인

```
pipeline {
    agent any

    environment {
        DB_URL = 'jdbc:mysql://j11b106.p.ssafy.io:3306/cat
        DB_USERNAME = 'root' // 자격 증명에서 사용자 이름을 가져
        DB_PASSWORD = 'catchcatch' // 자격 증명에서 비밀번호를
        JWT_SECRET = 'F6FC2FB8246B8C645453F1144A77F64A4411
        JWT_ACCESS_TOKEN_EXPIRE = '60480000000'
        JWT_REFRESH_TOKEN_EXPIRE = '60480000000'

        SPRING_DATA_REDIS_HOST = 'j11b106.p.ssafy.io'
```

```

    SPRING_DATA_REDIS_PORT = '6379'

    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_KAKAO_C
    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_KAKAO_C
    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_KAKAO_R
    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_KAKAO_A
    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_KAKAO_C
    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_KAKAO_C
    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_KAKAO_S
    SPRING_SECURITY_OAUTH2_CLIENT_PROVIDER_KAKAO_AUTHO
    SPRING_SECURITY_OAUTH2_CLIENT_PROVIDER_KAKAO_TOKEN
    SPRING_SECURITY_OAUTH2_CLIENT_PROVIDER_KAKAO_USER_
    SPRING_SECURITY_OAUTH2_CLIENT_PROVIDER_KAKAO_USER_

    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_GOOGLE_
    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_GOOGLE_
    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_GOOGLE_
    SPRING_SECURITY_OAUTH2_CLIENT_REGISTRATION_GOOGLE_

    SPRING_KAFKA_PRODUCER_BOOTSTRAP_SERVERS = 'http://
    SPRING_KAFKA_CONSUMER_GROUP_ID = 'group_1'
    SPRING_KAFKA_CONSUMER_GROUP = 'group'

    SPRINGDOC_API_DOCS_PATH='/api/auth/v3/api-docs'
    SPRINGDOC_SWAGGER_UI_PATH='/api/auth/swagger-ui.ht

    DOCKERHUB_CREDENTIALS = credentials('dockerhub-jen
}

stages {
    stage('Checkout') {
        steps {
            script {
                // Git 리포지토리에서 특정 브랜치를 체크아웃
                def gitBranch = 'backend-auth-develop'
                checkout([$class: 'GitSCM',
                        branches: [[name: "${gitBr
                        userRemoteConfigs: [[url: 'h

```



```

        echo "spring.security.oauth2.client.registration.oauth2=${S
        echo "spring.security.oauth2.client.registration.oauth2=${S
        echo "spring.security.oauth2.client.registration.oauth2=${S
        echo "spring.security.oauth2.client.registration.oauth2=${S

        echo "spring.kafka.producer.bootstrap-servers=${S
        echo "spring.kafka.consumer.group-id=${S
        echo "spring.kafka.consumer.group-id=${S

        echo "springdoc.api-docs.path=${S
        echo "springdoc.swagger-ui.path=${S
    ''
}
}
}

stage('Build') {
    steps {
        script {
            // gradlew 파일이 있는지 확인하고 실행 권한
            sh '''
                echo "Checking for gradlew file"

                cd backend-auth
                cd catchcatch-auth
                ls
                if [ -f gradlew ]; then
                    echo "Gradle Wrapper found, set permissions"
                    chmod +x gradlew
                    echo "Running Gradle Wrapper"
                    ./gradlew --version
                    echo "Building with Gradle"
                    ./gradlew clean build -i
                else
                    echo "Gradle Wrapper not found"
                    exit 1
                fi
            '''
        }
    }
}

```

```

    }
  }
}

stage('Docker Build') {
  steps {
    script {
      // Docker 이미지를 빌드하고 태그를 붙입니다.
      sh '''
          cd backend-auth
          cd catchcatch-auth

          docker --version
          docker login -u jjongbbang2 -p pd
          docker build -t jjongbbang2/catchcatch-auth backend-auth
          docker build -t jjongbbang2/catchcatch-auth catchcatch-auth
          docker images -a
          docker push jjongbbang2/catchcatch-auth backend-auth
          docker push jjongbbang2/catchcatch-auth catchcatch-auth
          docker rmi jjongbbang2/catchcatch-auth backend-auth
          docker rmi jjongbbang2/catchcatch-auth catchcatch-auth

          '''
    }
  }
}

stage('SSH to Ubuntu') {
  steps {
    script {
      sshagent(['SSH']) { // SSH 자격 증명을 설정합니다.
        sh '''
            ssh -o StrictHostKeyChecking=no root@192.168.1.10
            cd auth
            ./deploy.auth.sh

            '''
        }
      }
    }
  }
}

```

```

    }
  }

}

```

▼ [Front server] Jenkins 파이프라인

| jenkins 파이프라인

```

pipeline {
  agent any

  environment {
    DOCKERHUB_CREDENTIALS = credentials('dockerhub-jen
  }
  tools {
    // 사용할 도구들을 정의합니다.
    nodejs "node"
  }

  stages {
    stage('Checkout') {
      steps {
        script {
          // Git 리포지토리에서 특정 브랜치를 체크아웃
          def gitBranch = 'frontend-main-develop
          checkout([$class: 'GitSCM',
                    branches: [[name: "${gitBr
                    userRemoteConfigs: [[url: 'h
                    ]])
        }
      }
    }
    stage('Setup') {

```

```

        steps {
            script {
                // application.properties 파일을 환경 변수로
                sh '''
                    ls
                    cd frontend-main
                    echo "GENERATE_SOURCEMAP=false" >
                    ls -a
                '''
            }
        }
    }

    stage('Build') {
        steps {
            script {
                // package.json 파일 유무 확인 후 npm으로
                echo "Checking for package.json file"

                sh '''
                    cd frontend-main
                    npm --version
                    npm install --force
                    npm run build
                '''
            }
        }
    }

    stage('Docker Build') {
        steps {
            script {
                // Docker 이미지 빌드 및 Docker Hub에 업로드
                sh '''
                    cd frontend-main
                    ls
                    docker --version
                '''
            }
        }
    }
}

```

```

        docker login -u jjongbbang2 -p pdw
        docker build -t jjongbbang2/catchcatch
        docker build -t jjongbbang2/catchcatch
        docker images -a
        docker push jjongbbang2/catchcatch
        docker push jjongbbang2/catchcatch
        docker rmi jjongbbang2/catchcatch-
        docker rmi jjongbbang2/catchcatch-
    ''''
    }
}

stage('SSH to Ubuntu') {
    steps {
        script {
            sshagent(['SSH']) { // SSH 자격 증명을 설정
                sh '''
                    ssh -o StrictHostKeyChecking=no
                    cd front
                    ./deploy.front.sh
                '''
            }
        }
    }
}
}
```

배포 시 docker 빌드 파일

▼ Frontend Dockerfile

FROM node:18 AS build


```

WORKDIR /app

COPY package.json package-lock.json ./
RUN npm install

COPY . .

RUN npm run build

FROM nginx:alpine

COPY --from=build /app/dist /usr/share/nginx/html

EXPOSE 80

CMD ["nginx", "-g", "daemon off;"]

```

▼ Backend Dockerfile

```

FROM openjdk:17-alpine
ARG JAR_FILE=/build/libs/catchcatchMain-0.0.1-SNAPSHOT.jar
COPY ${JAR_FILE} app.jar
COPY src/main/resources/application.properties /app/application.properties
EXPOSE 8080
ENTRYPOINT ["java", "-jar", "/app.jar"]

```



배포시 docker-compose.yml 파일

▼ Back-main && frontend blue docker-compose.yml 파일

```

version: "3"
services:
  back_blue:
    container_name: back_blue
    image: jjongbbang2/catchcatch-main-blue

```

```

    expose:
      - 8080
    ports:
      - 8080:8080
    environment:
      TZ: Asia/Seoul
      SPRING_DATASOURCE_URL: jdbc:mysql://mysql:3306/everse

      SPRING_DATA_REDIS_HOST: redis
      SPRING_DATA_REDIS_PORT: 6379
      SPRING_JPA_HIBERNATE_DDL_AUTO: update
      SERVER_PORT: 8080
    networks:
      - backend

front_blue:
  container_name: front_blue
  image: jjongbbang2/catchcatch-front-blue
  expose:
    - 3000
  ports:
    - 3000:80
  networks:
    - backend

networks:
  backend:
    external:
      name: backend

```



nginx, mysql, redis docker-compose.yml 파일

```
version: "3"
services:
  mysql:
    image: mysql
    container_name: mysql
    environment:
      TZ: Asia/Seoul
    ports:
      - 3306:3306
    networks:
      - backend

  redis:
    container_name: redis
    image: redis
    ports:
      - 6379:6379
    networks:
      - backend

  nginx:
    image: nginx:latest
    container_name: nginx
    volumes:
      - ./nginx/conf.d:/etc/nginx/conf.d
      - ./data/certbot/conf:/etc/letsencrypt
      - ./data/certbot/www:/var/www/certbot
    restart: always
    ports:
      - 80:80
      - 443:443
    networks:
      - backend

  certbot:
    container_name: certbot
    image: certbot/certbot
    restart: unless-stopped
```

```

volumes:
  - ./data/certbot/conf:/etc/letsencrypt
  - ./data/certbot/www:/var/www/certbot
entrypoint: "/bin/sh -c 'trap exit TERM; while :; do cert

networks:
  backend:
    external:
      name: backend

```



nginx 설정 파일

▼ default.blue.conf 파일

```

## default.blue.conf 파일

upstream chat {
    # Load balancing to two backend instances
    server everstar_chat_1:8080;
    server everstar_chat_2:8080;
}

server {
    listen 80;
    server_name i11b101.p.ssafy.io;
    server_tokens off;

    location /.well-known/acme-challenge/ {
        allow all;
        root /var/www/certbot;
    }

    location / {
        return 301 https://$host$request_uri;
    }
}

```

```

    }
}

server {
    listen 443 ssl;
    server_name i11b101.p.ssafy.io;
    server_tokens off;

    ssl_certificate /etc/letsencrypt/live/i11b101.p.ssafy.io/ssl_certificate.pem;
    ssl_certificate_key /etc/letsencrypt/live/i11b101.p.ssafy.io/ssl_certificate.key;
    include /etc/letsencrypt/options-ssl-nginx.conf;
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem;

    location / {
        proxy_pass http://front_blue:3000;
        proxy_set_header Host $host:$server_port;
        proxy_set_header X-Forwarded-Host $server_name;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_cache off; # Ensure caching is off
    }

    location /api/auth {
        proxy_pass http://everstar_auth:8080;
        proxy_set_header Host $host:$server_port;
        proxy_set_header X-Forwarded-Host $server_name;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_cache off; # Ensure caching is off
    }

    location /api/chat {
        proxy_pass http://chat;
        proxy_set_header Host $host:$server_port;
        proxy_set_header X-Forwarded-Host $server_name;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_cache off; # Ensure caching is off
    }
}

```

```

        # websocket
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
        proxy_read_timeout 20m;
    }

    location /api {
        proxy_pass http://everstar_blue:8080;
        proxy_set_header Host $host:$server_port;
        proxy_set_header X-Forwarded-Host $server_name;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;

        # SSE settings
        proxy_buffering off; # Turn off proxy buffering for SSE
        proxy_cache off;    # Turn off proxy cache for SSE
        proxy_http_version 1.1;
        proxy_set_header Connection ''; # Clear the Connection header
        chunked_transfer_encoding off; # Disable chunked transfer encoding
    }

    location /ws {
        proxy_pass http://chat;
        proxy_set_header Host $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-Host $server_name;
        proxy_set_header X-Forwarded-Proto $scheme;

        # websocket
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
        proxy_read_timeout 20m;
    }

```

```
}
```

▼ default.green.conf 파일

```
## default.green.conf 파일

upstream chat {
    # Load balancing to two backend instances
    server everstar_chat_1:8080;
    server everstar_chat_2:8080;
}

server {
    listen 80;
    server_name i11b101.p.ssafy.io;
    server_tokens off;

    location /.well-known/acme-challenge/ {
        allow all;
        root /var/www/certbot;
    }

    location / {
        return 301 https://$host$request_uri;
    }
}

server {
    listen 443 ssl;
    server_name i11b101.p.ssafy.io;
    server_tokens off;

    ssl_certificate /etc/letsencrypt/live/i11b101.p.ssafy.io/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/i11b101.p.ssafy.io/private.pem;
    include /etc/letsencrypt/options-ssl-nginx.conf;
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem;
}
```

```

location / {
    proxy_pass http://front_green:3000;
    proxy_set_header Host $host:$server_port;
    proxy_set_header X-Forwarded-Host $server_name;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forw

    add_header Cache-Control no-store;
    add_header Pragma no-cache;
}

location /api/auth {
    proxy_pass http://everstar_auth:8080;
    proxy_set_header Host $host:$server_port;
    proxy_set_header X-Forwarded-Host $server_name;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forw

    add_header Cache-Control no-store;
    add_header Pragma no-cache;
}

location /api/chat {
    proxy_pass http://chat;
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forw
    proxy_set_header X-Forwarded-Proto $scheme;

    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection "upgrade";
    proxy_read_timeout 20m;
}

location /api {
    proxy_pass http://everstar_green:8080;

```



```

    proxy_set_header Host $host:$server_port;
    proxy_set_header X-Forwarded-Host $server_name;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;

    # SSE settings
    proxy_buffering off; # Turn off proxy buffering for SSE
    proxy_cache off;     # Turn off proxy cache for SSE
    proxy_http_version 1.1;
    proxy_set_header Connection ''; # Clear the Connection header
    chunked_transfer_encoding off; # Disable chunked transfer encoding

    add_header Cache-Control no-store;
    add_header Pragma no-cache;
}

location /ws {
    proxy_pass http://chat;
    proxy_set_header Host $host;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-Host $server_name;
    proxy_set_header X-Forwarded-Proto $scheme;

    # websocket
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection "upgrade";
    proxy_read_timeout 20m;
}
}

```



blue green 자동배포를 위한 쉘 스크립트 파일

deploy.sh 파일

```
EXIST_BLUE=$(docker ps --filter "name=everstar_blue" --filter

if [ -n "$EXIST_BLUE" ]; then
    echo "green up"
    docker-compose -f docker-compose-everstar-green.yml up -d -

    sleep 10

    docker cp ./default.green.conf nginx:/etc/nginx/conf.d/defa
    docker-compose exec -T nginx service nginx reload

    docker stop everstar_blue
    docker rm everstar_blue
    docker stop front_blue
    docker rm front_blue

    echo "rmi image"
    docker rmi jjongbbang2/everstar-back-main-blue
    docker rmi jjongbbang2/everstar-front-blue-u

else
    echo "blue up"
    docker-compose -f docker-compose-everstar-blue.yml up -d --

    sleep 10

    docker cp ./default.blue.conf nginx:/etc/nginx/conf.d/defau
    docker-compose exec -T nginx service nginx reload

    docker stop everstar_green
    docker rm everstar_green
    docker stop front_green
    docker rm front_green

    echo "rmi image"
```

```
docker rmi jjongbbang2/everstar-back-main-green
docker rmi jjongbbang2/everstar-front-green-ufi
```



Kafka compose.yml 파일

docker-compose-kafka.yml

```
version: '3.7'
services:
  zk1:
    container_name: zookeeper1
    image: wurstmeister/zookeeper:latest
    restart: always
    hostname: zk1
    ports:
      - "2181:2181"
    environment:
      ZOO_MY_ID: 1
      ZOO_SERVERS: server.1=zk1:2888:3888;2181 server.2=zk2:2888:3888;2181
    volumes:
      - "~/zk-cluster/zk1/data:/data"

  kafka1:
    container_name: kafka1
    image: wurstmeister/kafka:latest
    restart: on-failure
    depends_on:
      - zk1
    ports:
      - "9092:9092" # 이 포트를 원하는 포트로 조정 가능
    environment:
      KAFKA_BROKER_ID: 1
```

```
KAFKA_ADVERTISED_HOST_NAME: 43.203.128.74 # 이 부분도 필!
BOOTSTRAP_SERVERS: 43.203.128.74:9092
KAFKA_ZOOKEEPER_CONNECT: "zk1:2181"
KAFKA_OFFSETS_TOPIC_REPLICATION_FACTOR: 1 # 하나의 브로커
KAFKA_CREATE_TOPICS: "ek-log:1:1"
```

kafka-ui:

image: provectuslabs/kafka-ui

container_name: kafka-ui

ports:

- "10000:8080"

restart: always

environment:

- KAFKA_CLUSTERS_0_NAME=local

- KAFKA_CLUSTERS_0_BOOTSTRAPSERVERS=43.203.128.74:9092

- KAFKA_CLUSTERS_0_ZOOKEEPER=zk1:2181



elk 설치

elk 설치

```
git clone https://github.com/paullee714/Flask-Vue-ELK-Mongo-D
```

elasticsearch.yml

```
cluster.name: "docker-cluster"
```

```
network.host: 0.0.0.0
```

```
## X-Pack settings
```

```
## see https://www.elastic.co/guide/en/elasticsearch/referenc
```

```
#
```

```
xpack.license.self_generated.type: trial
xpack.security.enabled: true
xpack.monitoring.collection.enabled: true
```

kibana.yml

```
server.name: kibana
server.host: "0"
elasticsearch.hosts: [ "http://elasticsearch:9200" ]
xpack.monitoring.ui.container.elasticsearch.enabled: true

## X-Pack security credentials
#
elasticsearch.username: elastic
elasticsearch.password: changeme
```

logstash.yml

```
http.host: "0.0.0.0"
xpack.monitoring.elasticsearch.hosts: [ "http://elasticsearch:9200" ]

## X-Pack security credentials
#
xpack.monitoring.enabled: true
xpack.monitoring.elasticsearch.username: elastic
xpack.monitoring.elasticsearch.password: changeme
```

logstash.conf

```
input {
  tcp {
    port => 5001
  }
}
```

```

## Add your filters / logstash plugins configuration here

output {
  elasticsearch {
    hosts => "elasticsearch:9200"
    user => "elastic"
    password => "changeme"
    index => "elk-logger"
  }
}

```

docker-compose-elk.yml

```

version: '3.7'

services:

  setup:
    build:
      context: setup/
      args:
        ELASTIC_VERSION: ${ELASTIC_VERSION}
    volumes:
      - ./setup/entrypoint.sh:/entrypoint.sh:ro
      - ./setup/lib.sh:/lib.sh:ro
      - ./setup/roles:/roles:ro
    environment:
      ELASTIC_PASSWORD: ${ELASTIC_PASSWORD:-}
      LOGSTASH_INTERNAL_PASSWORD: ${LOGSTASH_INTERNAL_PASSWORD:-}
      KIBANA_SYSTEM_PASSWORD: ${KIBANA_SYSTEM_PASSWORD:-}
      METRICBEAT_INTERNAL_PASSWORD: ${METRICBEAT_INTERNAL_PASSWORD:-}
      FILEBEAT_INTERNAL_PASSWORD: ${FILEBEAT_INTERNAL_PASSWORD:-}
      HEARTBEAT_INTERNAL_PASSWORD: ${HEARTBEAT_INTERNAL_PASSWORD:-}
      MONITORING_INTERNAL_PASSWORD: ${MONITORING_INTERNAL_PASSWORD:-}
      BEATS_SYSTEM_PASSWORD: ${BEATS_SYSTEM_PASSWORD:-}
    networks:

```

```

    - elk
  depends_on:
    - elasticsearch

elasticsearch:
  build:
    context: elasticsearch/
  args:
    ELASTIC_VERSION: ${ELASTIC_VERSION}
  volumes:
    - ./elasticsearch/config/elasticsearch.yml:/usr/share/e
    - elasticsearch:/usr/share/elasticsearch/data:Z
  ports:
    - 9200:9200
    - 9300:9300
  environment:
    node.name: elasticsearch
    ES_JAVA_OPTS: -Xms512m -Xmx512m
    ELASTIC_PASSWORD: ${ELASTIC_PASSWORD:-}
    discovery.type: single-node
  networks:
    - elk
  restart: unless-stopped

logstash:
  build:
    context: logstash/
  args:
    ELASTIC_VERSION: ${ELASTIC_VERSION}
  volumes:
    - ./logstash/config/logstash.yml:/usr/share/logstash/co
    - ./logstash/pipeline:/usr/share/logstash/pipeline:ro,Z
  ports:
    - 5044:5044
    - 50000:50000/tcp
    - 50000:50000/udp
    - 9600:9600
  environment:

```

```

    LS_JAVA_OPTS: -Xms256m -Xmx256m
    LOGSTASH_INTERNAL_PASSWORD: ${LOGSTASH_INTERNAL_PASSWORD:-}
networks:
  - elk
depends_on:
  - elasticsearch
restart: unless-stopped

kibana:
  build:
    context: kibana/
    args:
      ELASTIC_VERSION: ${ELASTIC_VERSION}
  volumes:
    - ./kibana/config/kibana.yml:/usr/share/kibana/config/kibana.yml
  ports:
    - 5601:5601
  environment:
    KIBANA_SYSTEM_PASSWORD: ${KIBANA_SYSTEM_PASSWORD:-}
  networks:
    - elk
  depends_on:
    - elasticsearch
  restart: unless-stopped

networks:
  elk:
    driver: bridge

volumes:
  elasticsearch:

```



prometheus grafana docker-compose.yml

docker-compose-grafana.yml


```

version: "3"

networks:
  t4y:
    driver: bridge

services:
  prometheus:
    image: prom/prometheus
    container_name: prometheus
    volumes:
      - ./prometheus/config:/etc/prometheus
      - prometheus-data:/prometheus
    ports:
      - 9090:9090
    command:
      - '--storage.tsdb.path=/prometheus'
      - '--config.file=/etc/prometheus/prometheus.yml'
    restart: always
    networks:
      - t4y

  grafana:
    image: grafana/grafana
    container_name: grafana
    ports:
      - 4000:3000
    volumes:
      - grafana-data:/var/lib/grafana
      - ./grafana/provisioning:/etc/grafana/provisioning/
    restart: always
    depends_on:
      - prometheus
    networks:
      - t4y

  node_exporter:
    image: prom/node-exporter

```

```
volumes:
  - /proc:/host/proc:ro
  - /sys:/host/sys:ro
  - /:/rootfs:ro
command:
  - '--path.procfs=/host/proc'
  - '--path.rootfs=/rootfs'
  - '--path.sysfs=/host/sys'
  - '--collector.filesystem.mount-points-exclude=^/(sys|p
ports:
  - "9100:9100"
networks:
  - t4y
```

```
volumes:
  grafana-data:
  prometheus-data:
```