

포팅 매뉴얼 : MEET:Z

| SSAFY 11기 공통 프로젝트 광주 1반 8팀

개발 환경

프로젝트 기술 스택

Frontend

- Vite
- React
- TypeScript
- Zustand (상태 관리)
- Tailwind CSS
- React Router Dom
- Stomp JS (웹소켓 통신)

Backend

- Spring Boot
- Spring Security

데이터베이스

- MySQL (관계형 데이터베이스)
- MariaDB
- Redis

개발 도구 및 환경

- Jira (일정 관리)
- GitLab (코드 저장소)
- IntelliJ

- VS Code

클라우드 및 인프라

- Naver Cloud (클라우드 플랫폼)
- Nginx (웹 서버 및 리버스 프록시)
- Jenkins (CI/CD)
- Docker (컨테이너화)

환경변수 설정

Frontend : .env

```
VITE_NOW_BASEURL=deploy
VITE_MODE=local
VITE_API_LOCAL_URL = http://localhost:8088
VITE_API_DEPLOYED_URL = https://i11c108.p.ssafy.io
VITE_API_OPENVIDU_URL = https://i11c108.p.ssafy.io:8443
WDS_SOCKET_PORT=0
VITE_PUBLIC_URL=https://i11c108.p.ssafy.io/
VITE_CRYPT0_KEY=${crypto_key}
VITE_STT_API_KEY={api_key}
```

Backend : application.properties 파일

```
spring.application.name=meetz
server.port=8088
#server.ssl.enabled=true
#server.ssl.certificate=classpath:fullchain.pem
#server.ssl.certificate-private-key=classpath:privkey.pem
#server.ssl.trust-certificate=classpath:fullchain.pem
#server.ssl.protocol=TLSv1.2

#MariaDB Config
spring.datasource.driver-class-name=org.mariadb.jdbc.Driver
spring.datasource.url=${mariadb_url}
spring.datasource.username=${user_name}
```

```

spring.datasource.password=${uesr_password}

#JSP Config
spring.jpa.hibernate.ddl-auto=none
spring.jpa.hibernate.naming.physical-strategy=org.hibernate.b

#mariadb ??
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect

#Google SMTP
spring.mail.host=smtp.gmail.com
spring.mail.port=587
spring.mail.username=${email}
spring.mail.password=${password}
spring.mail.properties.mail.smtp.auth=true
spring.mail.properties.mail.smtp.timeout=5000
spring.mail.properties.mail.smtp.starttls.enable=true

#Redis Configuration
spring.data.redis.host=${redis_url}
#spring.data.redis.host=${redis_host}
spring.data.redis.port=7546

#logging level Config
logging.level.root=INFO

#OpenVidu Settings(HTTPS PORT? ????)
OPENVIDU_URL: https://i11c108.p.ssafy.io:8443/
OPENVIDU_SECRET: ${secret}
#server.ssl.enabled: false

spring.jwt.secret=${jwt_secret}

spring.servlet.multipart.enabled=true
spring.servlet.multipart.max-file-size=10MB
spring.servlet.multipart.max-request-size=10MB
server.tomcat.max-http-form-post-size=10MB

```

```
#Naver Clova speech
naver.bucket.name=meetz
clova.speech.invoke.url=${clova_url}
clova.speech.secret=${clova_secret}
naver.storage.path=${clova_path}

# Naver Object Storage
cloud.aws.credentials.accessKey=${cloud_accesskey}
cloud.aws.credentials.secretKey=${cloud_secretKey}
cloud.aws.region.static=kr-standard
cloud.aws.s3.endpoint=${endpoint}

logging.level.org.springframework.security=DEBUG
logging.level.org.springframework.web=DEBUG
```

Docker 파일

Frontend

```
#베이스 이미지 설정
FROM node:latest AS build
#작업 디렉토리 설정
WORKDIR /meetz-front/
#의존성 설치
COPY package*.json ./
RUN npm install
#앱 소스 복사
COPY . .
# .env 파일 생성
RUN echo "VITE_NOW_BASEURL=deployed\n\
VITE_MODE=deployed\n\
VITE_API_LOCAL_URL=http://localhost:8088\n\
VITE_API_DEPLOYED_URL=https://i11c108.p.ssafy.io\n\
VITE_PUBLIC_URL=https://i11c108.p.ssafy.io\n\
WDS_SOCKET_PORT=0\n\
WDS_SOCKET_PORT=0" > .env
```

```
#포트번호
EXPOSE 3000
#빌드
RUN npm run build
#서버 실행
CMD ["npm", "run", "dev"]
```

Backend

```
FROM openjdk:17
ARG JAR_FILE=build/libs/*.jar
COPY ${JAR_FILE} app.jar
ENTRYPOINT ["java","-jar","/app.jar"]
```

배포 방법

1. EC2 내부 방화벽 설정
2. 도커 설치
 - a. 우분투 시스템 패키지 업데이트

```
sudo apt-get update
```

- b. 필요한 패키지 설치

```
sudo apt-get install apt-transport-https ca-certificates
```

- c. Docker의 공식 GPG키 추가

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg
```

- d. Docker의 공식 apt 저장소 추가

```
sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu" &&
```

- e. 시스템 패키지 업데이트

```
sudo apt-get update
```

f. Docker 설치

```
sudo apt-get install docker-ce docker-ce-cli containerd
```

g. Docker 실행 상태 확인

```
sudo systemctl status docker
```

3. 젠킨스 설치 및 파이프라인 작성

a. 설치

```
cd /home/ubuntu && mkdir jenkins-data

ufw allow *8080*/tcp
ufw reload
ufw status

docker run -d -p 8080:8080 -v /home/ubuntu/jenkins-data:/var/jenkins_home jenkins/jenkins:lts

docker logs jenkins

docker stop jenkins
docker ps -a
```

b. 파이프라인

i. frontend pipeline

```
pipeline {
    agent any

    tools {
        nodejs "nodejs"
    }

    environment {
```

```

        timestamp = "${System.currentTimeMillis() / 1000}"
    }

    stages {
        stage('Prepare') {
            steps {
                script {
                    // Get the ID of the meetzfront:
                    def oldImageId = sh(script: "docker images | grep meetzfront | awk '{print $3}'")
                    env.oldImageId = oldImageId
                }

                git branch: 'develop', credentialsId: 'git-credentials',
                    url: 'https://lab.ssafty.com/s11-1'
            }

            post {
                success {
                    sh 'echo "Successfully Cloned Repository"'
                }
                failure {
                    sh 'echo "Fail Cloned Repository"'
                }
            }
        }

        stage('Build Docker Image') {
            steps {
                dir('meetz-front') {
                    sh "docker build --tag meetzfront ."
                }
            }
        }

        stage('Run Docker Container') {
            steps {
                script {
                    // Check if the container is already running
                }
            }
        }
    }
}

```

```

def containerId = sh(script: "do

if (containerId) {
    sh "docker rm -f meetzfront_1"
}

// Run the new container
def runStatus = sh(script: ""
    docker run \
        --name=meetzfront_1 \
        -p 3000:3000 \
        -v /docker_projects/meetzf
        --restart unless-stopped \
        -e TZ=Asia/Seoul \
        -d \
        meetzfront_1:${timestamp}
"", returnStatus: true)

if (runStatus != 0) {
    // If the container failed to
    containerId = sh(script: "do

    if (containerId) {
        sh "docker rm -f meetzfr
    }

    def imageExists = sh(script:

    if (imageExists) {
        sh "docker rmi meetzfron
    }

    error("Failed to run the Doc
}

// If there's an existing 'lates
def latestExists = sh(script: "d

```



```

        if (latestExists) {
            sh "docker rmi meetzfront_1:latest"
        }

        // If there was a previous image
        if (env.oldImageId) {
            sh "docker rmi ${env.oldImageId}"
        }

        // Tag the new image as 'latest'
        sh "docker tag meetzfront_1:${env.newImageId} meetzfront_1:latest"
    }
}
}
}
}
}

```

ii. backend pipeline

```

pipeline {
    agent any

    tools {
        nodejs "nodejs"
    }

    environment {
        timestamp = "${System.currentTimeMillis() / 1000} ${BUILD_NUMBER}"
    }

    stages {
        stage('Prepare') {
            steps {
                script {
                    // Get the ID of the meetzfront:latest image
                    def oldImageId = sh(script: "docker images | grep meetzfront | awk '{print $3}' | head -n 1", returnStdout: true).trim()
                    env.oldImageId = oldImageId
                }
            }
        }
    }
}

```

```

        git branch: 'develop', credentialsId: 'git-credentials'
        url: 'https://lab.ssafty.com/s11-1'
    }

    post {
        success {
            sh 'echo "Successfully Cloned Repository"'
        }
        failure {
            sh 'echo "Fail Cloned Repository"'
        }
    }
}

stage('Build Docker Image') {
    steps {
        dir('meetz-front') {
            sh "docker build --tag meetzfront ."
        }
    }
}

stage('Run Docker Container') {
    steps {
        script {
            // Check if the container is already running
            def containerId = sh(script: "docker ps -q --filter=ancestor=meetzfront_1", returnStdout: true).trim()

            if (containerId) {
                sh "docker rm -f meetzfront_1"
            }

            // Run the new container
            def runStatus = sh(script: """
                docker run \
                    --name=meetzfront_1 \
                    -p 3000:3000 \
            """, returnStdout: true).trim()
        }
    }
}

```

```

        -v /docker_projects/meetzf
        --restart unless-stopped \
        -e TZ=Asia/Seoul \
        -d \
        meetzfront_1:${timestamp}
        """, returnStatus: true)

if (runStatus != 0) {
    // If the container failed to run
    containerId = sh(script: "docker ps -a | grep meetzfront_1 | awk '{print $1}'")

    if (containerId) {
        sh "docker rm -f meetzfront_1:latest"
    }

    def imageExists = sh(script: "docker images | grep meetzfront_1 | awk '{print $1}'")

    if (imageExists) {
        sh "docker rmi meetzfront_1:latest"
    }

    error("Failed to run the Docker container")
}

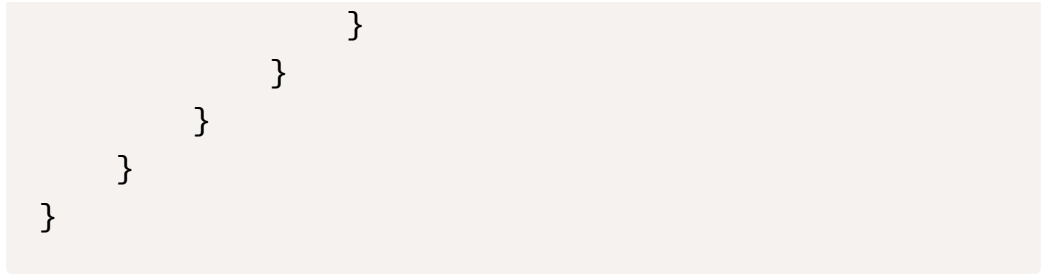
// If there's an existing 'latest' image
def latestExists = sh(script: "docker images | grep meetzfront_1 | awk '{print $1}'")

if (latestExists) {
    sh "docker rmi meetzfront_1:latest"
}

// If there was a previous image
if (env.oldImageId) {
    sh "docker rmi ${env.oldImageId}"
}

// Tag the new image as 'latest'
sh "docker tag meetzfront_1:${env.newImageId} meetzfront_1:latest"

```



4. HTTPS 적용

- a. 80, 443포트 방화벽 해제
- b. 기본 라이브러리 설치
- c. Nginx 설치 및 conf 파일 작성