

TTD 웹 포팅 메뉴얼

1. 환경변수

- Jenkins

```
id:human3452  
  
pw:asdasd12
```

- Frontend dockerfile

```
# Specify base image  
FROM node:18.17.0  
  
# Set working directory  
WORKDIR /app  
  
# Copy package.json and package-lock.json before other files  
# Utilise Docker cache to save re-installing dependencies if unchanged  
COPY package*.json ./  
  
# Install dependencies  
RUN npm install  
  
# Copy all files  
COPY ./ ./  
  
# Build application  
RUN npm run build  
  
# Specify the command to run  
CMD [ "npm", "start" ]  
  
# Expose the port the app runs on  
EXPOSE 3000
```

- package.json

```
{  
  "name": "ttd",  
  "version": "0.1.0",  
  "private": true,  
  "dependencies": {  
    "@testing-library/jest-dom": "^5.14.1",  
    "@testing-library/react": "^13.0.0",  
    "@testing-library/user-event": "^13.2.1",  
    "@types/jest": "^27.0.1",  
    "@types/node": "^16.7.13",  
    "@types/react": "^18.0.0",  
    "@types/react-dom": "^18.0.0",  
    "firebase": "^10.5.2",  
    "lodash": "^4.17.21",  
    "react": "^18.2.0",  
    "react-anchor-link-smooth-scroll": "^1.0.12",  
    "react-dom": "^18.2.0",  
    "react-player": "^2.13.0",  
    "react-router-dom": "^6.18.0",  
    "react-scripts": "5.0.1",
```

```

    "styled-components": "^6.1.0",
    "styled-reset": "^4.5.1",
    "typescript": "*",
    "web-vitals": "^2.1.0"
  },
  "scripts": {
    "start": "react-scripts start",
    "build": "react-scripts build",
    "test": "react-scripts test",
    "eject": "react-scripts eject"
  },
  "eslintConfig": {
    "extends": [
      "react-app",
      "react-app/jest"
    ]
  },
  "browserslist": {
    "production": [
      ">0.2%",
      "not dead",
      "not op_mini all"
    ],
    "development": [
      "last 1 chrome version",
      "last 1 firefox version",
      "last 1 safari version"
    ]
  },
  "devDependencies": {
    "@typescript-eslint/eslint-plugin": "^6.4.0",
    "eslint": "^8.0.1",
    "eslint-config-prettier": "^9.0.0",
    "eslint-config-standard-with-typescript": "^39.1.1",
    "eslint-plugin-import": "^2.29.0",
    "eslint-plugin-n": "^15.0.0 || ^16.0.0 ",
    "eslint-plugin-prettier": "^5.0.1",
    "eslint-plugin-promise": "^6.0.0",
    "eslint-plugin-react": "^7.33.2",
    "prettier": "3.0.3"
  }
}

```

2. 빌드

Front-End

1. npm i
2. npm start

3. 배포

1. Nginx 설치

```
sudo apt install nginx
```

2. Nginx 설정

```

server {
    listen 80;
    server_name k9b302.p.ssafy.io;

```

```

        return 301 https://k9b302.p.ssafy.io$request_uri;
    }

    server {
        listen 443 ssl http2;
        listen [::]:443 ssl http2;
        server_name k9b302.p.ssafy.io;

        # ssl 인증서 적용하기 - ssl 인증키의 위치
        ssl_certificate /etc/letsencrypt/live/k9b302.p.ssafy.io/fullchain.pem;
        ssl_certificate_key /etc/letsencrypt/live/k9b302.p.ssafy.io/privkey.pem;

        location / {
            proxy_pass http://127.0.0.1:3000/;
            proxy_http_version 1.1;
            proxy_set_header Upgrade $http_upgrade;
            proxy_set_header Connection 'upgrade';
            proxy_set_header Host $host;
            proxy_cache_bypass $http_upgrade;
            proxy_set_header X-Forwarded-Proto $scheme;
        }

        location /api/ {
            proxy_pass http://localhost:8080/;
            charset utf-8;

            proxy_http_version 1.1;

            # 요청과 응답 중 Connection 헤더 설정, upgrade로 설정함으로
            # 일부 특별한 상황에서 연결을 업그레이드
            proxy_set_header Connection "upgrade";

            # Upgrade 헤더 값을 설정, 클라이언트 요청의 upgrade 값 유지
            proxy_set_header Upgrade $http_upgrade;

            # Host 헤더 값을 클라이언트 요청의 Host 헤더 값으로 설정
            # 프록시에 요청을 할 때 원래 호스트 정보를 유지하기 위해
            proxy_set_header Host $http_host;
        }
    }
}

```

3. ssl 인증

3-1 인증서 발급

```

#let's Encrypt 설치
sudo apt-get install letsencrypt

#cerbot 설치
$ apt-get install python3-certbot-nginx

#cerbot 동작
sudo certbot --nginx

#ssl 인증서 발급
$ certbot certonly --nginx -d <도메인 주소>

```

3-2 인증서 주소

```

cd /etc/letsencrypt/live/인증서발급받은_도메인주소

ex) cd /etc/letsencrypt/live/j9b207.p.ssafy.io

```

4. Jenkins Pipeline

```
pipeline {
  agent any

  environment {
    CONTAINER_NAME = "jenkins-frontend-container"
    IMAGE_NAME = "jenkins-frontend-image"
    ENV_FILE = ""
  }
  tools {
    nodejs 'npm'
  }
  stages {
    stage('Git Clone') {
      steps {
        git branch: 'Frontend', credentialsId: 'b302admin', url: 'https://lab.ssafy.com/s09-final/S09P31B302.git'
        sh "docker images"
      }
    }
    stage('Build') {
      steps {
        // Using the credentials binding plugin to bind the secret file to an env variable
        withCredentials([file(credentialsId: 'ENVFILE', variable: 'SECRET_ENV_FILE')]) {
          sh '''
            cd TTD_Frontend/ttd

            # Copy the secret .env file to your project directory
            cp $SECRET_ENV_FILE .env

            # Continue with the build
            npm cache clean --force
            npm install .
            CI=false npm run build
          '''
        }
      }
    }
    stage('Docker delete') {
      steps {
        script {
          try {
            // 컨테이너가 존재하면 삭제합니다.
            sh "docker stop ${CONTAINER_NAME}"
            sh "docker rm -f ${CONTAINER_NAME}"
          } catch (Exception e) {
            // 컨테이너가 존재하지 않는 경우 에러가 발생할 수 있으므로, 에러를 무시합니다.
            echo "Docker container ${CONTAINER_NAME} does not exist. Skipping deletion."
          }

          try {
            // 이미지가 존재하면 삭제합니다.
            sh "docker image rm ${IMAGE_NAME}"
          } catch (Exception e) {
            // 이미지가 존재하지 않는 경우 에러가 발생할 수 있으므로, 에러를 무시합니다.
            echo "Docker image ${IMAGE_NAME} does not exist. Skipping deletion."
          }
        }
      }
    }
    post {
      success {
        sh 'echo "docker delete Success"'
      }
      failure {
        sh 'echo "docker delete Fail"'
      }
    }
  }
  stage('Dockerizing'){
```

```

    steps{
      sh 'echo " Image Bulid Start"'
      sh """
        cd TTD_Frontend
        cd ttd
        ls -la
        docker build -t ${IMAGE_NAME} .
      """
    }
    post {
      success {
        sh 'echo "Bulid Docker Image Success"'
      }
      failure {
        sh 'echo "Bulid Docker Image Fail"'
      }
    }
  }
}
stage('Deploy') {
  steps {
    sh "docker run --name ${CONTAINER_NAME} -d -p 3000:3000 ${IMAGE_NAME}"
  }
  post {
    success {
      echo 'deploy success'
    }
    failure {
      echo 'deploy failed'
    }
  }
}
}
}
}
}

```