

# 포팅 메뉴얼

## 1. 개발 및 배포 환경 버전

항목	종류 / 제품 / 버전
JVM	OpenJDK 17.0.12
IDE	IntelliJ IDEA 2023.3.8
WAS	Spring Boot 3.5.4
Node.js	v22.18.0
npm	10.9.3
pnpm	10.14.0
TypeScript	5.8.3
Redis	8.0.3
MySQL	9.4.0
Ubuntu	22.04.4 LTS
Docker	28.4.0
Nginx	1.18.0

## 2. 빌드 시 사용되는 환경변수

### application-dev.yml

```
server:  
  port: 8080  
  
spring:  
  application:  
    name: majoong-service  
  datasource:  
    url: jdbc:mysql://j13e105.p.ssafy.io:3306/machimnae_db  
    username: [DB_USERNAME]  
    password: [DB_PASSWORD]  
    driver-class-name: com.mysql.cj.jdbc.Driver  
  jpa:
```

```
hibernate:
  ddl-auto: update
  show-sql: true
properties:
  hibernate:
    dialect: org.hibernate.dialect.MySQL8Dialect
    format_sql: true
batch:
  jdbc:
    initialize-schema: never
    table-prefix: BATCH_
job:
  enabled: false

security:
  oauth2:
    client:
      registration:
        kakao:
          client-id: [KAKAO_CLIENT_ID]
          client-secret: [KAKAO_CLIENT_SECRET]
          client-authentication-method: client_secret_post
          authorization-grant-type: authorization_code
          redirect-uri: https://api-test.majoong.site/login/oauth2/code/kakao
          scope:
            - profile nickname
            - account_email
        client-name: kakao
    provider:
      kakao:
        authorization-uri: https://kauth.kakao.com/oauth/authorize
        token-uri: https://kauth.kakao.com/oauth/token
        user-info-uri: https://kapi.kakao.com/v2/user/me
        user-name-attribute: id
data:
  redis:
    host: j13e105.p.ssafy.io
    port: 6379
```

```
password: [REDIS_PASSWORD]
servlet:
    multipart:
        max-file-size: 50MB
        max-request-size: 200MB

jwt:
    secret-key: [JWT_SECRET_KEY]
    access-expire-time: 3600000
    refresh-expire-time: 604800000

app:
    redirect-uri: https://test.majoong.site/login/callback
    frontend: https://test.majoong.site

verification:
    api:
        key: [VERIFICATION_API_KEY]

logging:
    level:
        org.springframework.security: DEBUG
        org.springframework.web.client.RestTemplate: DEBUG

# ===== 블록체인(수탁형) 추가 =====
chain:
    rpcUrl: "https://sepolia.infura.io/v3/[INFURA_PROJECT_ID]"
    chainId: 11155111
    tokenAddress: [TOKEN_ADDRESS]
    factoryAddress: [FACTORY_ADDRESS]
    krwPerToken: 100

web3:
    adminPrivateKey: [WEB3_ADMIN_PRIVATE_KEY]
    keystoreDir: "./keystore"

security:
    keystoreEncryptKey: [KEYSTORE_ENCRYPT_KEY]
```

```
cloud:
aws:
credentials:
  access-key: [AWS_ACCESS_KEY]
  secret-key: [AWS_SECRET_KEY]
region:
  static: ap-northeast-2
stack:
  auto: false
s3:
  bucket: e105

finapi:
  base-url: https://finopenapi.ssafy.io/ssafy/api/v1
  api-key: [FINAPI_KEY]
  institution-code: "00100"
  fintech-app-no: "001"
  account-type-unique-no: [FINAPI_ACCOUNT_TYPE_NO]
  admin-account-no: [FINAPI_ADMIN_ACCOUNT_NO]
  admin-user-key: [FINAPI_ADMIN_USER_KEY]

kakao:
  MapApi: [KAKAO_MAP_API_KEY]

openai:
  api-key: [OPENAI_API_KEY]
  text-model: gpt-4o-mini
  http-client:
    read-timeout: 3000
    connect-timeout: 3000
  urls:
    base-url: https://gms.ssafy.io/gmsapi
    create-text-url: /api.openai.com/v1/chat/completions
    image-url: /gmsapi/generativelanguage.googleapis.com/v1beta/models/i
      magen-3.0-generate-002:predict
    image-base-url: https://gms.ssafy.io
```

```
kakaopay:
  secretKey: [KAKAOPAY_SECRET_KEY]
  cid: TC0ONETIME
  url:
    ready: https://open-api.kakaopay.com/online/v1/payment/ready
    approveRedirect: https://open-api.kakaopay.com/online/v1/payment/approve
    approve: https://api-test.majoong.site/api/v1/kakao-pay/approve
    cancel: https://test.majoong.site/kakao-pay/cancel
    fail: https://test.majoong.site/kakao-pay/fail

  jobs:
    scheduling:
      enabled: true
```

## application-prod.yml

```
server:
  port: 8080

spring:
  application:
    name: majoong-service
  datasource:
    url: jdbc:mysql://j13e105.p.ssafy.io:3306/machimnae_db
    username: [DB_USERNAME]
    password: [DB_PASSWORD]
    driver-class-name: com.mysql.cj.jdbc.Driver
  jpa:
    hibernate:
      ddl-auto: update
      show-sql: true
    properties:
      hibernate:
        dialect: org.hibernate.dialect.MySQL8Dialect
        format_sql: true
  batch:
```

```
jdbc:
  initialize-schema: never
  table-prefix: BATCH_

job:
  enabled: false

jobs:
  scheduling:
    enabled: true

security:
  oauth2:
    client:
      registration:
        kakao:
          client-id: [KAKAO_CLIENT_ID]
          client-secret: [KAKAO_CLIENT_SECRET]
          client-authentication-method: client_secret_post
          authorization-grant-type: authorization_code
          redirect-uri: https://api.majoong.site/login/oauth2/code/kakao
          scope:
            - profile.nickname
            - account_email
        client-name: kakao
    provider:
      kakao:
        authorization-uri: https://kauth.kakao.com/oauth/authorize
        token-uri: https://kauth.kakao.com/oauth/token
        user-info-uri: https://kapi.kakao.com/v2/user/me
        user-name-attribute: id

  data:
    redis:
      host: j13e105.p.ssafy.io
      port: 6379
      password: [REDIS_PASSWORD]

servlet:
  multipart:
    max-file-size: 50MB
```

```
max-request-size: 200MB
```

```
jwt:  
  secret-key: [JWT_SECRET_KEY]  
  access-expire-time: 3600000  
  refresh-expire-time: 604800000
```

```
app:  
  redirect-uri: https://www.majoong.site/login/callback  
  frontend: https://www.majoong.site
```

```
verification:  
  api:  
    key: [VERIFICATION_API_KEY]
```

```
logging:  
  level:  
    org.springframework.security: DEBUG  
    org.springframework.web.client.RestTemplate: DEBUG
```

```
# ===== 블록체인(수탁형) 추가 =====  
chain:  
  rpcUrl: "https://sepolia.infura.io/v3/[INFURA_PROJECT_ID]"  
  chainId: 11155111  
  tokenAddress: [TOKEN_ADDRESS]  
  factoryAddress: [FACTORY_ADDRESS]  
  krwPerToken: 100
```

```
web3:  
  adminPrivateKey: [WEB3_ADMIN_PRIVATE_KEY]  
  keystoreDir: "./keystore"
```

```
security:  
  keystoreEncryptKey: [KEYSTORE_ENCRYPT_KEY]
```

```
cloud:  
  aws:  
    credentials:
```

```
access-key: [AWS_ACCESS_KEY]
secret-key: [AWS_SECRET_KEY]
region:
  static: ap-northeast-2
stack:
  auto: false
s3:
  bucket: e105

finapi:
  base-url: https://finopenapi.ssafy.io/ssafy/api/v1
  api-key: [FINAPI_KEY]
  institution-code: "00100"
  fintech-app-no: "001"
  account-type-unique-no: [FINAPI_ACCOUNT_TYPE_NO]
  admin-account-no: [FINAPI_ADMIN_ACCOUNT_NO]
  admin-user-key: [FINAPI_ADMIN_USER_KEY]

kakao:
  MapApi: [KAKAO_MAP_API_KEY]

openai:
  api-key: [OPENAI_API_KEY]
  text-model: gpt-4o-mini
  http-client:
    read-timeout: 3000
    connect-timeout: 3000
  urls:
    base-url: https://gms.ssafy.io/gmsapi
    create-text-url: /api.openai.com/v1/chat/completions
    image-url: /gmsapi/generativelanguage.googleapis.com/v1beta/models/imagen-3.0-generate-002:predict
    image-base-url: https://gms.ssafy.io

kakaopay:
  secretKey: [KAKAOPAY_SECRET_KEY]
  cid : TC00ONETIME
  url:
```

```
ready: https://open-api.kakaopay.com/online/v1/payment/ready
approveRedirect: https://open-api.kakaopay.com/online/v1/payment/approve
approve: https://api.majoong.site/api/v1/kakao-pay/approve
cancel: https://www.majoong.site/kakao-pay/cancel
fail: https://www.majoong.site/kakao-pay/fail

jobs:
  scheduling:
    enabled: true
```

### .env.production.build

```
NEXT_PUBLIC_API_URL=https://api-test.majoong.site
```

### .env.development.build

```
NEXT_PUBLIC_API_URL=https://api.majoong.site
```

### .env.runtime

```
CLOVA_OCR_INVOKE_URL=[CLOVA_OCR_INVOKE_URL]
CLOVA_OCR_SECRET=[CLOVA_OCR_SECRET]
OPENAI_API_KEY=[OPENAI_API_KEY]
OPENAI_API_URL=[OPENAI_API_URL]

HORSE_API_SERVICE_KEY=[HORSE_API_SERVICE_KEY]
```

## 3. JenkinsFile

```
pipeline {
  agent any
```

```

environment {
    BACKEND_DIR      = 'backend'
    FRONTEND_DIR     = 'frontend'
    DEV_BACK_CONTAINER = 'majoong-backend-dev'
    DEV_FRONT_CONTAINER = 'majoong-frontend-dev'
    PROD_BACK_CONTAINER = 'majoong-backend-prod'
    PROD_FRONT_CONTAINER = 'majoong-frontend-prod'
    DEV_BACK_PORT    = '8081'
    DEV_FRONT_PORT   = '3001'
    PROD_BACK_PORT   = '8082'
    PROD_FRONT_PORT  = '3000'
    TEST_NETWORK     = 'test-network'
    PROD_NETWORK     = 'prod-network'
    LOG_FILE = 'ci.log'
}

options {
    timestamps()
    disableConcurrentBuilds()
}

stages {
    stage('Init Log') {
        steps {
            echo "📝 Init Log: 워크스페이스 로그 파일 초기화"
            sh """
            set -eu
            : "${WORKSPACE:?}"
            rm -f "$WORKSPACE/${LOG_FILE:-ci.log}" || true
            touch "$WORKSPACE/${LOG_FILE:-ci.log}"
            echo "[INIT] ci.log created at $(date -u +%Y-%m-%dT%H:%M:%S)" >> "$WORKSPACE/${LOG_FILE:-ci.log}"
            """
        }
    }

    stage('Detect Changes') {

```

```

steps {
    echo "🔍 Detect Changes: 변경 파일 스캔"
    script {
        def range = env.GIT_PREVIOUS_SUCCESSFUL_COMMIT ? "${env.GIT_PREVIOUS_SUCCESSFUL_COMMIT}..HEAD" : "HEAD~1..HEAD"
        def changedFiles = sh(script: "git diff --name-only ${range} || true", returnStdout: true).trim()

        if (!changedFiles) {
            echo "❌ 변경된 파일이 없습니다. 스킵합니다."
            env.BACK_CHANGED = 'false'
            env.FRONT_CHANGED = 'false'
            env.CHAIN_CHANGED = 'false'
        } else {
            echo "📄 변경 파일 목록:\n${changedFiles}"
            def lines = changedFiles.split('\\n') as List<String>
            env.BACK_CHANGED = (lines.any { it.startsWith('backend/') }).toString()
            env.FRONT_CHANGED = (lines.any { it.startsWith('frontend/') }).toString()
            env.CHAIN_CHANGED = (lines.any { it.startsWith('blockchain/' ) }).toString()
        }
    }

    echo "🧭 변경 요약 → BACK_CHANGED=${env.BACK_CHANGED}, FRONT_CHANGED=${env.FRONT_CHANGED}, CHAIN_CHANGED=${env.CHAIN_CHANGED}, range=${range}."
}
}

stage('Detect Branch') {
    steps {
        echo "🌿 Detect Branch: 브랜치 이름 확인"
        script {
            def resolved = env.BRANCH_NAME?.trim()
            if (!resolved) {
                resolved = env.GIT_REF?.replaceFirst(/^refs\\heads\\//,'')?.trim()
            }
        }
    }
}

```

```

m()
}

if (!resolved) {
    resolved = sh(script: "git name-rev --name-only HEAD || git r
ev-parse --abbrev-ref HEAD",
                returnStdout: true).trim()
}
env.BRANCH_NAME = resolved
echo "▶ Active Branch = ${env.BRANCH_NAME}"
}

}

stage('Prepare Secret') {
    steps {
        echo "🔒 Prepare Secret: application.yml 주입"
        sh "mkdir -p ${BACKEND_DIR}/src/main/resources"
        script {
            if (env.BRANCH_NAME == 'main') {
                echo "🔧 환경: prod (main)"
                withCredentials([file(credentialsId: 'SECRETFILE_PROD', vari
able: 'ENV_YML')]) {
                    sh """
                        set -eu
                        cp "\$ENV_YML" "${env.BACKEND_DIR}/src/main/resourc
es/application.yml" >> "\$WORKSPACE/\$LOG_FILE" 2>&1
                        chmod 600 "${env.BACKEND_DIR}/src/main/resources/ap
plication.yml" >> "\$WORKSPACE/\$LOG_FILE" 2>&1
                        echo "[SECRET] prod application.yml installed"
                    >> "\$WORKSPACE/\$LOG_FILE"
                    """
                }
            } else if (env.BRANCH_NAME == 'dev') {
                echo "🔧 환경: dev (dev)"
                withCredentials([file(credentialsId: 'SECRETFILE_DEV', variab
le: 'ENV_YML')]) {
                    sh """
                        set -eu

```

```

        cp "\$ENV_YML" "${env.BACKEND_DIR}/src/main/resources/application.yml" >> "\$WORKSPACE/\${LOG_FILE}" 2>&1
        chmod 600 "${env.BACKEND_DIR}/src/main/resources/application.yml" >> "\$WORKSPACE/\${LOG_FILE}" 2>&1
        echo "[SECRET] dev application.yml installed"
>> "\$WORKSPACE/\${LOG_FILE}"

"""

    }
} else {
    echo "ℹ️ main/dev 외 브랜치: 시크릿 복사 생략"
}
}

}

stage('Nothing to Build') {
when { expression { env.BACK_CHANGED != 'true' && env.FRONT_CHANGED != 'true' && env.CHAIN_CHANGED != 'true' } }
steps {
    echo "⏩ 변경 없음 → 모든 빌드 단계 스킁"
    script { currentBuild.result = 'NOT_BUILT' }
}
}

stage('Backend Build') {
when { expression { env.BACK_CHANGED == 'true' || env.BRANCH_NAME == 'main' } }
steps {
    echo "🔧 Backend Build: Gradle 빌드 시작"
    dir("${BACKEND_DIR}") {
        script {
            try {
                sh """#!/usr/bin/env bash
                set -Eeuo pipefail
                echo "[BACKEND] build start" >> "\$WORKSPACE/\${LOG_FILE}"
                chmod +x ./gradlew >> "\$WORKSPACE/\${LOG_FILE}" 2>&1
            }
        }
    }
}
}

```

```

        set -x
        ./gradlew --no-daemon build -x test --stacktrace --warning-mode all --info \
                2>&1 | tee -a "\$WORKSPACE/\${LOG_FILE}"
        ec=\$?
        set +x
        echo "[BACKEND] build exit=\${ec}"           >> "\$WORKSPACE/\${LOG_FILE}"
        exit "\${ec}"
        """
        echo "✅ Backend Build: 성공"
    } catch (err) {
        sh "echo '[ERROR] Backend Build failed: \${err}' >> '\$WORKSPACE/\${LOG_FILE}\''"
        echo "❌ Backend Build: 실패"
        throw err
    }
}
}
}
}
}

stage('Prepare Env Files') {
    steps {
        echo "🛠️ Prepare Env Files: blockchain/frontend .env 주입"
        script {
            // 디렉토리 보장
            sh 'mkdir -p blockchain frontend'

            // 1) blockchain/.env 주입
            withCredentials([file(credentialsId: 'ENV_BLOCKCHAIN', variable: 'BLOCK_ENV')]) {
                sh ""
                install -m 600 -T "\$BLOCK_ENV" "blockchain/.env"
                echo "[ENV] blockchain/.env installed"
                ""
            }
        }
    }
}

```

```

// frontend 빌드용 env
withCredentials([file(credentialsId: env.BRANCH_NAME == 'main' ? 'FRONT_ENV_PROD' : 'FRONT_ENV_DEV', variable: 'FRONT_BUILD')]) {
    sh ""
    install -m 400 -T "$FRONT_BUILD" frontend/.env
    echo "[ENV] frontend build .env installed"
    ""
}

// frontend 런타임용 env
withCredentials([file(credentialsId: 'FRONT_ENV_RUNTIME', variable: 'FRONT_RUNTIME')]) {
    sh ""
    install -m 400 -T "$FRONT_RUNTIME" frontend/.env.runtime
    echo "[ENV] frontend runtime .env installed"
    ""
}
}

stage('Hardhat Setup & Compile') {
when { expression { return env.CHAIN_CHANGED == 'true' } }
steps {
    echo "⛓ Hardhat: Node/NPM 설정 및 컴파일"
    dir('blockchain') {
        sh "#!/usr/bin/env bash"
        set -Eeuo pipefail
        echo "[CHAIN] setup start"

        export NVM_DIR="$HOME/.nvm"
        if [ ! -s "$NVM_DIR/nvm.sh" ]; then
            echo "[CHAIN] installing nvm ..."
            curl -fsSL https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.7/install.sh | bash
        fi
        . "$NVM_DIR/nvm.sh"
    }
}
}

```

```

nvm install 20
nvm use 20

node -v
npm -v

export CI=true
npm ci --no-audit --no-fund
npx hardhat compile

echo "[CHAIN] compile done"
"""

}

echo "✅ Hardhat: 컴파일 완료"
}

}

stage('Deploy to Dev') {
when { expression { env.BRANCH_NAME == 'dev' } }
steps {
echo "🚀 Deploy to Dev: DEV 네트워크/컨테이너 준비"
script {
withCredentials([usernamePassword(credentialsId: 'dockerhub', usernameVariable: 'DOCKER_USER', passwordVariable: 'DOCKER_TOKEN')])
{
sh 'echo "$DOCKER_TOKEN" | docker login -u "$DOCKER_USER" --password-stdin'
}
// 네트워크가 없으면 생성
sh "docker network inspect ${TEST_NETWORK} >/dev/null 2>& 1 || docker network create ${TEST_NETWORK}"
def TAG = sh(script: "git rev-parse --short=12 HEAD", returnStdout: true).trim()
env.IMAGE_TAG = TAG

if (env.BACK_CHANGED == 'true') {
echo "📦 DEV Backend: 이미지 빌드 및 컨테이너 실행"
script {

```

```

try {
    sh """
        docker build -f backend/Dockerfile -t majoong/backe
nd-dev:${TAG} backend >> "\$WORKSPACE/${LOG_FILE}" 2>&1
        docker rm -f ${DEV_BACK_CONTAINER} || true
    >> "\$WORKSPACE/${LOG_FILE}" 2>&1
        docker run -d \
            --name ${DEV_BACK_CONTAINER} \
            --network ${TEST_NETWORK} \
            --network-alias backend-test \
            -p ${DEV_BACK_PORT}:8080 \
            majoong/backend-dev:${TAG}
    >> "\$WORKSPACE/${LOG_FILE}" 2>&1
    """
    echo "✅ DEV Backend: 배포 완료 (tag=${TAG})"
} catch(err) {
    sh "echo '[ERROR] Backend Deploy to Dev failed: ${err}'"
    >> "\$WORKSPACE/${LOG_FILE}"
    echo "❌ DEV Backend: 배포 실패"
    throw err
}
}

if (env.FRONT_CHANGED == 'true') {
    echo "💻 DEV Frontend: 이미지 빌드 및 컨테이너 실행"
    script {
        try {
            sh '#!/usr/bin/env bash
set -Eeuo pipefail

# 콘솔과 파일 동시 출력 + 파이프 실패코드 전파
set +e
set -o pipefail
DOCKER_BUILDKIT=1 docker build \
--no-cache \
--progress=plain \
-f frontend/Dockerfile \

```

```

--secret id=buildenv,src="$WORKSPACE/frontend/.env"
\

-t majoong/frontend-dev:$IMAGE_TAG \
frontend 2>&1 | tee -a "$WORKSPACE/${LOG_FILE}"
ec=$?
set -e

echo "[FRONTEND][DEV] docker build exit=$ec" >>
"$WORKSPACE/${LOG_FILE}"
exit "$ec"
...

```

// 아래 run 부분은 그대로 두되, 로그 리다이렉션도 이스케이프  
권장

```

sh """
docker rm -f ${DEV_FRONT_CONTAINER} || true >>
"\$WORKSPACE/\${LOG_FILE}" 2>&1

docker run -d \
--name ${DEV_FRONT_CONTAINER} \
--network ${TEST_NETWORK} \
-p ${DEV_FRONT_PORT}:3000 \
--env-file "\$WORKSPACE/frontend/.env.runtime" \
-v next_cache_dev:/app/.next/cache \
--restart unless-stopped \
majoong/frontend-dev:\$IMAGE_TAG >> "\$WORKSP
ACE/\${LOG_FILE}" 2>&1
"""

echo "✅ DEV Frontend: 배포 완료 (tag=${TAG})"
} catch (err) {
    sh "echo '[ERROR] Frontend Deploy to Dev failed: ${er
r}' >> '\$WORKSPACE/\${LOG_FILE}'"
    echo "❌ DEV Frontend: 배포 실패"
    throw err
}
}
```

```

        }
    }
}

stage('Deploy to Prod') {
    when { expression { env.BRANCH_NAME == 'main' } }
    steps {
        echo "🚀 Deploy to Prod: PROD 네트워크/컨테이너 준비"
        script {
            withCredentials([usernamePassword(credentialsId: 'dockerhub', usernameVariable: 'DOCKER_USER', passwordVariable: 'DOCKER_TOKEN')])
                sh 'echo "$DOCKER_TOKEN" | docker login -u "$DOCKER_USER" --password-stdin'
            }
            sh "docker network inspect ${PROD_NETWORK} >/dev/null 2>&1 || docker network create ${PROD_NETWORK}"
            def TAG = sh(script: "git rev-parse --short=12 HEAD", returnStdout: true).trim()
            env.IMAGE_TAG = TAG

            if (env.BACK_CHANGED == 'true') {
                echo "📦 PROD Backend: 이미지 빌드/태깅 및 컨테이너 실행"
                script {
                    try {
                        sh """
                            docker build -f backend/Dockerfile -t majoong/backend-prod:${TAG} backend >> "\$WORKSPACE/${LOG_FILE}" 2>&1
                            docker tag majoong/backend-prod:${TAG} majoong/backend-prod:latest >> "\$WORKSPACE/${LOG_FILE}" 2>&1
                            docker rm -f ${PROD_BACK_CONTAINER} || true
                        >> "\$WORKSPACE/${LOG_FILE}" 2>&1
                            docker run -d \
                                --name ${PROD_BACK_CONTAINER} \
                                --network ${PROD_NETWORK} \
                                --network-alias backend \
                                -p ${PROD_BACK_PORT}:8080 \
                                majoong/backend-prod:${TAG}
                        """
                    }
                }
            }
        }
    }
}

```

```

>> "\$WORKSPACE/\${LOG_FILE}" 2>&1
"""

    echo "✅ PROD Backend: 배포 완료 (tag=\${TAG})"
} catch(err) {
    sh "echo '[ERROR] Backend Deploy to main failed: \${error}' >> '\$WORKSPACE/\${LOG_FILE}'"
    echo "❌ PROD Backend: 배포 실패"
    throw err
}
}

if (env.FRONT_CHANGED == 'true') {
    echo "💻 PROD Frontend: 이미지 빌드/태깅 및 컨테이너 실행"
    script {
        try {
            sh ''#!/usr/bin/env bash
            set -Eeuo pipefail

            set +e
            set -o pipefail
            DOCKER_BUILDKIT=1 docker build \
                --no-cache \
                --progress=plain \
                -f frontend/Dockerfile \
                --secret id=buildenv,src="\$WORKSPACE/frontend/.env"
        }
        -t majoong/frontend-prod:\$IMAGE_TAG \
        frontend 2>&1 | tee -a "\$WORKSPACE/\${LOG_FILE}"
        ec=\$?
        set -e

        echo "[FRONTEND][PROD] docker build exit=\$ec" >>
        "\$WORKSPACE/\${LOG_FILE}"
        docker tag majoong/frontend-prod:\$IMAGE_TAG majoong/g/frontend-prod:latest >> "\$WORKSPACE/\${LOG_FILE}" 2>&1 || true
        exit "\$ec"
    }
}

```



## 빈 문자열

```
def commitMsg = sh(script: "git log -1 --pretty=%s", returnStdout: true).trim()
def commitUrl = env.GIT_COMMIT_URL ?: ""
sendMMNotify(true, [
    branch : branch,
    mention : mention,
    buildUrl : env.BUILD_URL,
    commit : [msg: commitMsg, url: commitUrl],
    // 실패가 아니므로 details 생략
])
}
}

failure {
    echo "🔴 POST: 빌드 실패 – 로그 tail 후 Mattermost 알림 전송"
    script {
        def branch = resolveBranch()
        def mention = resolvePusherMention()
        def commitMsg = sh(script: "git log -1 --pretty=%s", returnStdout: true).trim()
        def commitUrl = env.GIT_COMMIT_URL ?: ""

        // ci.log이 있으면 마지막 200줄, 없으면 빈 문자열
        def tail = sh(
            script: "tail -n 150 \"$WORKSPACE/${LOG_FILE}\" 2>/dev/null || true",
            returnStdout: true
        ).trim()

        // (선택) 민감정보 간단 마스킹
        tail = tail
            .replaceAll(/(?!)(token|secret|password|passwd|apikey|api_key)\s*[:=]\s*\|S+/, '$1=[REDACTED]')
            .replaceAll(/AKIA[0-9A-Z]{16}/, 'AKIA[REDACTED]')

        def detailsBlock = tail ? ```text\n${tail}\n``` : ""

        sendMMNotify(false, [

```

```

        branch : branch,
        mention : mention,
        buildUrl : env.BUILD_URL,
        commit : [msg: commitMsg, url: commitUrl],
        details : detailsBlock
    ])
}
}
always {
    echo "📦 Pipeline finished with status: ${currentBuild.currentResult}"
- 🔥 민감 파일 정리"
    sh "rm -f ${env.BACKEND_DIR}/src/main/resources/application.yml
|| true"
    // ⬇️ runtime 파일까지 함께 제거
    sh "rm -f blockchain/.env frontend/.env frontend/.env.runtime || tru
e"
    echo "🧹 Cleanup: application.yml/.env 삭제 완료"
}
}
}

// 브랜치 해석: BRANCH_NAME → GIT_REF → git
def resolveBranch() {
    if (env.BRANCH_NAME) return env.BRANCH_NAME
    if (env.GIT_REF) return env.GIT_REF.replaceFirst(/^refs\\heads\\/, '')
    return sh(script: "git name-rev --name-only HEAD || git rev-parse --abbre
v-ref HEAD", returnStdout: true).trim()
}

// @username (웹훅의 user_username) 우선, 없으면 커밋 작성자 표시
def resolvePusherMention() {
    def u = env.GIT_PUSHER_USERNAME?.trim()
    if (u) return "@${u}"
    return sh(script: "git --no-pager show -s --format='%an <%ae>' HEAD", r
eturnStdout: true).trim()
}

// ✅/✖️ 제목을 "## :jenkins7: Jenkins Build Success ✅ / Failed ✖️" 로 출력

```

하고

```
// 아래에 pusher / Target Branch / Commit (실패 시 Error)만 표시
def sendMMNotify(boolean success, Map info) {
    def titleLine = success ? "## :jenkins7: Jenkins Build Success"
                           : "## :angry_jenkins: Jenkins Build Failed"

    def lines = []
    if (info.mention) lines << "**Author**: ${info.mention}"
    if (info.branch) lines << "**Target Branch**: `${info.branch}`"
    if (info.commit?.msg) {
        def commitLine = info.commit?.url ? "[${info.commit.msg}](${info.commit.url})" : info.commit.msg
        lines << "**Commit**: ${commitLine}"
    }
    if (!success && info.details) {
        lines << "**Error Message**:\n${info.details}"
    }

    def text = "${titleLine}\n" + (lines ? ("\n" + lines.join("\n")) : "")

    // 안전 전송(크리덴셜 경고 없음)
    writeFile file: 'payload.json', text: groovy.json.JsonOutput.toJson([
        text      : text,
        username : "Jenkins",
        icon_emoji: ":jenkins7:"
    ])
    withCredentials([string(credentialsId: 'mattermost-webhook', variable: 'MM_WEBHOOK')]) {
        sh(script: """
            curl -sS -f -X POST -H 'Content-Type: application/json' \
                  --data-binary @payload.json \
                  "$MM_WEBHOOK"
        """)
    }
}
```

## 4. nginx - majoong.conf

/etc/nginx/conf.d 하위에 폴더 만들어서 아래 파일 넣기

```
# ----- 업스트림 -----
upstream fe_prod { server 127.0.0.1:3000; keepalive 32; }
upstream be_prod { server 127.0.0.1:8082; keepalive 32; }
upstream fe_test { server 127.0.0.1:3001; keepalive 16; }
upstream be_test { server 127.0.0.1:8081; keepalive 16; }

# ----- 공통 헤더/웹소켓 -----
map $http_upgrade $connection_upgrade { default upgrade; '' close; }

proxy_set_header Host      $host;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header X-Forwarded-Proto $scheme;
proxy_set_header X-Forwarded-Host $host;
proxy_set_header X-Forwarded-Port $server_port;
# ----- 잘못된 Host/IP 직접접속 차단 -----
server { listen 80 default_server; return 444; }
server {
    listen 443 ssl http2 default_server;
    # 아무 인증서나(혹은 와일드카드) 지정 가능하지만 어차피 444 반환
    ssl_certificate /etc/letsencrypt/live/majoong.site/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/majoong.site/privkey.pem;
    return 444;
}

# =====
==

# 1) 운영 프론트: majoong.site, www.majoong.site
# =====
==

server {
    listen 80;
    server_name majoong.site www.majoong.site;
    return 301 https://$host$request_uri;
}
```

```
server {  
    listen 443 ssl http2;  
    server_name majoong.site www.majoong.site;  
  
    ssl_certificate    /etc/letsencrypt/live/majoong.site/fullchain.pem;  
    ssl_certificate_key /etc/letsencrypt/live/majoong.site/privkey.pem;  
  
    client_max_body_size 50m;  
  
    location / {  
        proxy_read_timeout 300s;  
        proxy_send_timeout 300s;  
        proxy_pass http://fe_prod;  
    }  
  
    location /api/ {  
        proxy_pass http://be_prod;  
    }  
  
    location /oauth2/ {  
        proxy_pass http://be_prod;  
    }  
  
    location /login/oauth2/ {  
        proxy_pass http://be_prod;  
    }  
  
}  
  
# =====  
==  
# 2) 운영 백엔드: api.majoong.site (루트부터 백엔드!)  
# =====  
==  
server {  
    listen 80;  
    server_name api.majoong.site;  
    return 301 https://$host$request_uri;
```

```
}

server {
    listen 443 ssl http2;
    server_name api.majoong.site;

    ssl_certificate    /etc/letsencrypt/live/api.majoong.site/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/api.majoong.site/privkey.pem;

    client_max_body_size 50m;

    location / {
        proxy_read_timeout 300s;
        proxy_send_timeout 300s;
        proxy_pass http://be_prod;
    }

    location /swagger-ui/ {
        proxy_read_timeout 120s;
        proxy_pass http://be_prod;
    }

    location ^~ /v3/api-docs {
        proxy_read_timeout 120s;
        proxy_pass http://be_prod;
    }

    location = /healthz    { access_log off; proxy_pass http://be_prod/actuator/health; }

    location = / { return 302 /swagger-ui/index.html; }

    location /login/oauth2/ {
        proxy_pass http://be_prod;
    }
}

# =====
==
```

```
# 3) 테스트 프론트: test.majoong.site
# =====
==

server {
    listen 80;
    server_name test.majoong.site;
    return 301 https://$host$request_uri;
}

server {
    listen 443 ssl http2;
    server_name test.majoong.site;

    ssl_certificate    /etc/letsencrypt/live/test.majoong.site/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/test.majoong.site/privkey.pem;

    client_max_body_size 50m;

    location / {
        proxy_read_timeout 300s;
        proxy_send_timeout 300s;
        proxy_pass http://fe_test;
    }

    location /api/ {
        proxy_pass http://be_test;
    }

    location /oauth2/ {
        proxy_pass http://be_test;
    }

    location /login/oauth2/ {
        proxy_pass http://be_test;
    }
}
```

```
# =====
==

# 4) 테스트 백엔드: api-test.majoong.site
# =====
==

server {
    listen 80;
    server_name api-test.majoong.site;
    return 301 https://$host$request_uri;
}

server {
    listen 443 ssl http2;
    server_name api-test.majoong.site;

    ssl_certificate /etc/letsencrypt/live/api-test.majoong.site/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/api-test.majoong.site/privkey.pem;

    client_max_body_size 50m;

    location / {
        proxy_read_timeout 300s;
        proxy_send_timeout 300s;
        proxy_pass http://be_test;
    }

    location /swagger-ui/ {
        proxy_read_timeout 120s;
        proxy_pass http://be_test;
    }

    location ^~ /v3/api-docs {
        proxy_read_timeout 120s;
        proxy_pass http://be_test;
    }

    location = /healthz { access_log off; proxy_pass http://be_test/actuator/health; }
}
```

```
location = / { return 302 /swagger-ui/index.html; }

location /login/oauth2/ {
    proxy_pass http://be_test;
}
}

# =====
==

# 5) 싸피|domain: j13e105.p.ssafy.io
# =====
==

# j13e105 단일 도메인
server {
    listen 80;
    server_name j13e105.p.ssafy.io;
    return 301 https://www.majoong.site$request_uri;
}

server {
    listen 443 ssl http2;
    server_name j13e105.p.ssafy.io;

    ssl_certificate    /etc/letsencrypt/live/j13e105.p.ssafy.io/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/j13e105.p.ssafy.io/privkey.pem;

    client_max_body_size 50m;

    # ----- 백엔드로 보낼 경로들 -----
    # Swagger UI
    location ^~ /swagger-ui/    { proxy_read_timeout 120s; proxy_pass http://be_prod; }
    # Swagger 리소스(필요 시)
    location ^~ /swagger-resources/ { proxy_read_timeout 120s; proxy_pass http://be_prod; }
    location ^~ /webjars/        { proxy_read_timeout 120s; proxy_pass http://be_prod; }
    # OpenAPI JSON
    location ^~ /v3/api-docs     { proxy_read_timeout 120s; proxy_pass http://be
```

```
e_prod; }

# 실제 API
location ^~ /api/      { proxy_read_timeout 300s; proxy_send_timeout 30
0s; proxy_pass http://be_prod; }

# 루트로 오면 Swagger 바로 보고 싶다면(선택)
# location = / { return 302 /swagger-ui/index.html; }

# ----- 나머지는 프론트 -----
location / {
    proxy_read_timeout 300s;
    proxy_send_timeout 300s;
    proxy_pass http://fe_prod;
}

return 301 https://www.majoong.site$request_uri;
}
```