

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/app
rove
    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/i
    magen-3.0-generate-002:predict
    image-base-url: https://gms.ssafy.io

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



```
ready: https://open-api.kakaopay.com/online/v1/payment/ready
approveRedirect: https://open-api.kakaopay.com/online/v1/payment/app
rove
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 $(date -u +%Y-%m-%dT%H:%M:%S)Z" >> "$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 "📌 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 스킵"
        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 --warnin
g-mode all --info \
        2>&1 | tee -a "\$WORKSPACE/\${LOG_FILE}"
        ec=\$?
        set +x
        echo "[BACKEND] build exit=\${ec}"                >> "\$WOR
KSPACE/\${LOG_FILE}"
        exit "\${ec}"
        ""
        echo "✅ Backend Build: 성공"
    } catch (err) {
        sh "echo '[ERROR] Backend Build failed: \${err}' >> \"\$WO
RKSPACE/\${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', variabl
e: '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: ${err}' >> \"\$WORKSPACE/${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/${LOG_FILE}\"
      docker tag majoong/frontend-prod:\$IMAGE_TAG majoong/frontend-prod:latest >> \"\$WORKSPACE/${LOG_FILE}\" 2>&1 || true
      exit \"\$ec\"
    '
  }
}

```

```

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

docker run -d \
  --name ${PROD_FRONT_CONTAINER} \
  --network ${PROD_NETWORK} \
  -p ${PROD_FRONT_PORT}:3000 \
  --env-file "\$WORKSPACE/frontend/.env.runtime" \
  -v next_cache_prod:/app/.next/cache \
  --restart unless-stopped \
  majoong/frontend-prod:\$IMAGE_TAG >> "\$WORKS
PACE/\${LOG_FILE}" 2>&1

""

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

post {
  success {
    echo "🎉 POST: 빌드 성공 – Mattermost 알림 전송"
    script {
      def branch = resolveBranch()
      def mention = resolvePusherMention() // @username 또는

```

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(/(?i)(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 --abbrev-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", returnStdout: 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**:" + 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) 싸피domain: 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 300s; 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;
}

```