

# 포팅 매뉴얼

- version

- JAVA - 17.0.13
- node.js - 20.18.0

- ▼ DB 및 모니터링

- ▼ docker-compose.yaml

```
name: toudeuk-docker-compose

services:
  database:
    image: mysql:8.0
    container_name: toudeuk-database
    environment:
      MYSQL_ROOT_PASSWORD: toudeuk
      MYSQL_DATABASE: toudeuk
      MYSQL_USER: toudeuk
      MYSQL_PASSWORD: toudeuk
      TZ: Asia/Seoul
    ports:
      - "3306:3306"
    volumes:
      - toudeuk-db:/var/lib/mysql

  db-admin:
    container_name: db-admin
    image: phpmyadmin/phpmyadmin
    ports:
      - "5000:80"
    environment:
      PMA_HOST: database
      MYSQL_ROOT_PASSWORD: toudeuk
```

```

restart: always

cache-database:
  image: redis
  container_name: toudeuk-cache-database
  ports:
    - "6379:6379"
  entrypoint: redis-server --requirepass toudeuk --ma

prometheus:
  image: prom/prometheus:latest
  container_name: prometheus
  ports:
    - "9090:9090"
  volumes:
    - ./prometheus.yml:/etc/prometheus/prometheus.yml
    - prometheus-data:/prometheus

grafana:
  image: grafana/grafana:latest
  container_name: grafana
  user: "$UID:$GID"
  ports:
    - "3001:3000"
  volumes:
    - grafana-data:/var/lib/grafana
  depends_on:
    - prometheus

# !! Ngrinder 설정 나중에 서버를 분리하면 스프링 서버가 돌아가:
controller:
  container_name: ngrinder-controller
  image: ngrinder/controller:3.5.5
  restart: always
  ports:
    - "9091:80"
    - "16001:16001"

```

```

    - "12000-12009:12000-12009"
  volumes:
    - /tmp/ngrinder-controller:/opt/ngrinder-controller
agent:
  container_name: ngrinder-agent
  image: ngrinder/agent:3.5.5
  restart: always
  links:
    - controller

zookeeper-1:
  image: confluentinc/cp-zookeeper:latest
  ports:
    - '32181:32181'
  environment:
    ZOOKEEPER_CLIENT_PORT: 32181
    ZOOKEEPER_TICK_TIME: 2000
kafka-1:
  image: confluentinc/cp-kafka:latest
  container_name: kafka-msa
  ports:
    - '9092:9092'
  depends_on:
    - zookeeper-1
  environment:
    KAFKA_BROKER_ID: 1
    KAFKA_ZOOKEEPER_CONNECT: zookeeper-1:32181
    KAFKA_LISTENER_SECURITY_PROTOCOL_MAP: INTERNAL:PLAINTEXT
    KAFKA_INTER_BROKER_LISTENER_NAME: INTERNAL
    KAFKA_ADVERTISED_LISTENERS: INTERNAL://kafka-1:29092
    KAFKA_OFFSETS_TOPIC_REPLICATION_FACTOR: 1
    KAFKA_GROUP_INITIAL_REBALANCE_DELAY_MS: 0
    # KAFKA_DEFAULT_REPLICATION_FACTOR: 3
    KAFKA_NUM_PARTITIONS: 1

kafka-ui:
  image: provectuslabs/kafka-ui

```

```

    container_name: kafka-ui
    ports:
      - "8989:8080"
    restart: always
    environment:
      - KAFKA_CLUSTERS_0_NAME=local
      - KAFKA_CLUSTERS_0_BOOTSTRAPSERVERS=kafka-1:29092
      - KAFKA_CLUSTERS_0_ZOOKEEPER=zookeeper-1:32181
    volumes:
      toudeuk-db:
      grafana-data:
      prometheus-data:

```

#### ▼ prometheus.yml

```

scrape_configs:
  - job_name: 'celuveatdev'
    metrics_path: '/actuator/prometheus'
    scrape_interval: 5s
    static_configs:
      - targets: ['toudeuk.kr:9093']

```

#### ▼ 환경변수

##### ▼ build.gradle

```

plugins {
    id 'java'
    id 'org.springframework.boot' version '3.3.4'
    id 'io.spring.dependency-management' version '1.1.5'
}

group = 'com.toudeuk'
version = '0.0.1-SNAPSHOT'

java {
    toolchain {
        languageVersion = JavaLanguageVersion.of(17)
    }
}

```

```

}

configurations {
    compileOnly {
        extendsFrom annotationProcessor
    }
}

repositories {
    mavenCentral()
}

dependencies {

    // WEB
    implementation 'org.springframework.boot:spring-
developmentOnly 'org.springframework.boot:spring

    // JSON Converter
    implementation group: 'com.google.code.gson', na
    implementation 'com.fasterxml.jackson.core:jacks

    // TEST
    testImplementation 'org.springframework.boot:spr
    testRuntimeOnly 'org.junit.platform:junit-platfo
    testImplementation 'com.google.code.gson:gson:2.

    // DB
    implementation 'org.springframework.boot:spring-
implementation 'org.springframework.boot:spring-
runtimeOnly 'com.mysql:mysql-connector-j'

    //Java TimeModule
    implementation 'com.fasterxml.jackson.datatype:j

    // Lombok
    compileOnly 'org.projectlombok:lombok'

```

```

annotationProcessor 'org.projectlombok:lombok'

// WebSocket
implementation 'org.springframework.boot:spring-
implementation 'org.webjars:sockjs-client:1.0.2'
implementation 'org.webjars:stomp-websocket:2.3.3'

// Temp for Web Socket test
implementation 'org.webjars:webjars-locator-core'
implementation 'org.webjars:bootstrap:3.3.7'
implementation 'org.webjars:jquery:3.1.1-1'

// QueryDSL
implementation 'com.querydsl:querydsl-jpa:5.0.0:
annotationProcessor "com.querydsl:querydsl-apt:5
annotationProcessor "jakarta.annotation:jakarta.
annotationProcessor "jakarta.persistence:jakarta
implementation 'com.querydsl:querydsl-spatial'

// JWT
implementation 'io.jsonwebtoken:jjwt-api:0.12.3'
implementation 'io.jsonwebtoken:jjwt-impl:0.12.3'
implementation 'io.jsonwebtoken:jjwt-jackson:0.12.3'

// Security
implementation 'org.springframework.boot:spring-
testImplementation 'org.springframework.security
implementation 'org.springframework.boot:spring-

// Kafka
implementation 'org.springframework.kafka:spring

// Monitoring
implementation 'org.springframework.boot:spring-
implementation 'io.micrometer:micrometer-registr

//마이크로미터 설정

```

```

runtimeOnly "io.micrometer:micrometer-registry-p

// OAuth2
implementation 'org.springframework.boot:spring-

// Swagger
implementation 'org.springdoc:springdoc-openapi-

// AWS S3
implementation 'org.springframework.cloud:spring
}

tasks.named('test') {
    useJUnitPlatform()
}

```

#### ▼ application.properties

```

spring.application.name=server

# JPA
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
spring.jpa.properties.hibernate.format_sql=true
spring.jpa.properties.hibernate.dialect=org.hibernate
spring.jpa.open-in-view=false
logging.level.org.hibernate.SQL=ERROR
# MySQL
spring.datasource.url=jdbc:mysql://localhost:3306/to
spring.datasource.username=toudeuk
spring.datasource.password=toudeuk
spring.datasource.driver-class-name=com.mysql.cj.jdbc
# Redis
spring.data.redis.host=localhost
spring.data.redis.port=6379
spring.data.redis.password=toudeuk
#swagger
springdoc.swagger-ui.path=/api-test

```

```

springdoc.swagger-ui.groups-order=desc
springdoc.swagger-ui.tags-sorter=alpha
springdoc.swagger-ui.operations-sorter=method
springdoc.paths-to-match=/api/v1/**
springdoc.use-fqn=true
#
spring.jwt.access-expire=10000000000
spring.jwt.refresh-expire=10000000000
spring.jwt.secret=toudeukasdfasdfasdfasdfasdfasdfasdf
spring.config.import=optional:application-secret.pro
jwt.issuer=secretkey@gmail.com
management.endpoints.web.exposure.include=*
management.server.port=9093
server.tomcat.mbeanregistry.enabled=true
management.endpoint.prometheus.enabled=true
# Kafka
producers.topics.click.name=click
consumers.topics.click.name=click
producers.topics.item-buy.name=item-buy
consumers.topics.item-buy.name=item-buy

producers.topics.charge-cash.name=charge-cash
consumers.topics.charge-cash.name=charge-cash

producers.topics.game-cash-log.name=game-cash-log
consumers.topics.game-cash-log.name=game-cash-log

consumers.group-id.topics.click.name=toudeuk

spring.kafka.consumer.auto-offset-reset=earliest
spring.kafka.consumer.key-deserializer=org.apache.kafka
spring.kafka.consumer.value-deserializer=org.apache.
spring.kafka.producer.key-serializer=org.apache.kafka
spring.kafka.producer.value-serializer=org.springframework
# ?? ?? ??? ? ??
server.tomcat.threads.max=400
server.tomcat.threads.min-spare=50
server.tomcat.accept-count=200

```



```
server.tomcat.max-connections=10000
# ??? ? ?? (HikariCP ?? ?)
spring.datasource.hikari.maximum-pool-size=80
spring.datasource.hikari.minimum-idle=80
```

#### ▼ application-secret.properties

```
#registration - kakao
spring.security.oauth2.client.registration.kakao.client-id=
spring.security.oauth2.client.registration.kakao.client-secret=
spring.security.oauth2.client.registration.kakao.redirect-uri=
spring.security.oauth2.client.registration.kakao.authorization-grant-type=
spring.security.oauth2.client.registration.kakao.scope=

# Kakao OAuth2 Provider
spring.security.oauth2.client.provider.kakao.authorization-uri=
spring.security.oauth2.client.provider.kakao.token-uri=
spring.security.oauth2.client.provider.kakao.user-info-uri=
spring.security.oauth2.client.provider.kakao.user-name-uri=

# KAKAO PAY API
# 카카오페이 개발자센터에서 발급받아서 넣어주면 됨
kakaopay.api.secret.key=DEV86281C93C936CA199E81EBF2F...
cid=TC00NETIME
# 카카오페이 개발자센터에서 등록한 url로 교체 후 사용
kakaopay.api.host=
kakaopay.redirect.url=

# S3
cloud.aws.region.static=ap-northeast-2
cloud.aws.stack.auto=false
# 아래 두개의 키는 s3 발급 받아서 내야함
cloud.aws.credentials.accessKey=
cloud.aws.credentials.secretKey=
# 경로는 알맞게 바꿔야함
cloud.aws.s3.bucket=toudeuk/images
# 클라우드 프론트 등록후 넣어주면 됨
```

```
cloud.aws.s3.cloudFrontDomain=https://d2uaylxt6f2ffw
```

```
# multipart
spring.servlet.multipart.enabled=true
spring.servlet.multipart.file-size-threshold=2MB
spring.servlet.multipart.max-file-size=10MB
spring.servlet.multipart.max-request-size=10MB
```

▼ .env

```
#NEXT_PUBLIC_SENTRY_DSN=https://873bd5cfbb5745397111
#NEXT_PUBLIC_SENTRY_ENVIRONMENT=development
#SENTRY_TRACES_SAMPLE_RATE=0.1
#SENTRY_AUTH_TOKEN=sntrys_eyJpYXQiOjE3MDAwMjY3MDAuMz
```

▼ .env.production

```
NEXT_PUBLIC_API_URL="https://toudeuk.kr"
# NEXT_PUBLIC_API_URL="http://localhost:8080"
NEXT_PUBLIC_BASE_URL="https://toudeuk.kr"
```

- 외부 서비스 정보
  - 카카오 로그인
  - 카카오 페이

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- 시연 시나리오

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