빌드 및 배포

- Backend Framework: Spring Boot 2.7.13

- Frontend Framework: Flutter

- Database: MySQL, Redis

- WAS: Gradle

- JVM: 11(azul-11.0.19)

- Docker

- WEB: Nginx

- IDE: IntelliJ Ultimate

1. Network 설정

```
docker network create --gateway 172.18.0.1 --subnet 172.18.0.0/16 keeping-network
```

2. RabbitMq 배포

```
docker run -d --name rabbitmq --network keeping-network \\
-p 15672:15672 -p 5672:5672 -p 15671:15671 -p 5671:5671 -p 4369:4369 \\
-e RABBITMQ_DEFAULT_USER=guest \\
-e RABBITMQ_DEFAULT_PASS=guest \\
rabbitmq:management
```

3. Config Service 배포

```
docker build -t leeyr0412/config-service:1.0 .

docker push leeyr0412/config-service:1.0

docker pull leeyr0412/config-service:1.0

docker run -d -p 8888:8888 --network keeping-network  \
-e "spring.rabbitmq.host=rabbitmq" \
-e "spring.profiles.active=default" \
--name config-service leeyr0412/keeping-backend-config:1.0
```

4. Discovery Service 배포

```
docker build -t leeyr0412/discovery-service:1.0 .

docker push leeyr0412/discovery-service:1.0

docker pull leeyr0412/discovery-service:1.0

docker run -d -p 8762:8762 --network keeping-network \
-e "spring.cloud.config.uri=http://config-service:8888" \
-e "server.port=8762" \
--name discovery-service leeyr0412/discovery-service:1.0
```

5. Apigateway Service 배포

```
docker build -t chaos0103/apigateway-service:1.0 .
```

```
docker push chaos0103/apigateway-service:1.0

docker pull chaos0103/apigateway-service:1.0

docker run -d -p 8000:8000 --network keeping-network \
-e "spring.cloud.config.uri=http://config-service:8888" \
-e "spring.rabbitmq.host=rabbitmq" \
-e "eureka.client.serviceUrl.defaultZone=
http://discovery-service:8762/eureka/" \
-e "logging.level.org.hibernate=info" \
-e "logging.level.com.keeping.memberservice=info" \
--name gateway-service leeyr0412/gateway:1.3
```

6. MySQL 배포

```
docker run -d -p 3307:3307 --network keeping-network --name mysqldb \
-e "SPRING_DATASOURCE_URL=jdbc:mysql://localhost:3306/keeping" \
-e "SPRING_DATASOURCE_USERNAME=ssafy" \
-e "SPRING_DATASOURCE_PASSWORD=ssafyc207" \
-e "MYSQL_ROOT_PASSWORD=ssafyc207" \
mysql:8.0.17
```

7. Redis 배포

```
docker run -d --restart=always --name=redis -p 6380:6379 \
--network keeping-network \
-e TZ=Asia/Seoul \
-v /home/ubuntu/docker_config/redis_config.conf:/etc/redis/redis.conf \
-v redis_data:/data redis:latest redis-server /etc/redis/redis.conf
```

8. Member Service

```
docker build -t leeyr0412/member:1.0 .
docker push leeyr0412/member:1.0
docker pull leeyr0412/member:1.0

docker run -d --network keeping-network --name member-service \
-e "spring.cloud.config.uri=http://config-service:8888" \
-e "spring.rabbitmq.host=rabbitmq" \
-e "spring.redis.host=redis" \
-e "spring.datasource.url=jdbc:mysql://mysqldb:3306/keeping?useSSL=false&characterEncoding=UTF-8&allowPublicKeyRetrieval=true" \
-e "eureka.client.serviceUrl.defaultZone=http://discovery-service:8762/eureka/" \
-e "logging.level.org.hibernate=info" \
-e "logging.level.com.keeping.memberservice=info" \
--name member-service leeyr0412/member:1.0
```

9. Bank Service

```
docker build -t leeyr0412/bank:1.0 .
docker push leeyr0412/bank:1.0
docker pull leeyr0412/bank:1.0

docker run -d --network keeping-network --name bank-service \
-e "spring.cloud.config.uri=http://config-service:8888" \
-e "spring.rabbitmq.host=rabbitmq" \
-e "spring.redis.host=redis" \
-e "spring.datasource.url=jdbc:mysql://mysqldb:3306/keeping?useSSL=false&characterEncoding=UTF-8&allowPublicKeyRetrieval=true" \
-e "eureka.client.serviceUrl.defaultZone=http://discovery-service:8762/eureka/" \
-e "logging.level.org.hibernate=info" \
-e "logging.level.com.keeping.bankservice=info" \
--name member-service leeyr0412/bank:1.0
```

10. Mission Service

```
docker build -t leeyr0412/mission:1.0 .
docker push leeyr0412/mission:1.0
docker pull leeyr0412/mission:1.0

docker run -d --network keeping-network --name mission-service \
-e "spring.cloud.config.uri=http://config-service:8888" \
-e "spring.rabbitmq.host=rabbitmq" \
-e "spring.datasource.url=jdbc:mysql://mysqldb:3306/keeping?useSSL=false&characterEncoding=UTF-8&allowPublicKeyRetrieval=true" \
-e "eureka.client.serviceUrl.defaultZone=http://discovery-service:8762/eureka/" \
-e "logging.level.org.hibernate=info" \
-e "logging.level.com.keeping.missionservice=info" \
--name member-service leeyr0412/mission:1.0
```

11. Notification Service

```
docker build -t leeyr0412/noti:1.0 .
docker push leeyr0412/noti:1.0
docker pull leeyr0412/noti:1.0

docker run -d --network keeping-network --name noti-service \
-e "spring.cloud.config.uri=http://config-service:8888" \
-e "spring.rabbitmq.host=rabbitmq" \
-e "spring.datasource.url=jdbc:mysql://mysqldb:3306/keeping?useSSL=false&characterEncoding=UTF-8&allowPublicKeyRetrieval=true" \
-e "eureka.client.serviceUrl.defaultZone=http://discovery-service:8762/eureka/" \
-e "logging.level.org.hibernate=info" \
-e "logging.level.com.keeping.notiservice=info" \
--name member-service leeyr0412/noti:1.0
```

12. OpenAI Service

```
docker build -t leeyr0412/openai:1.0 .
docker push leeyr0412/openai:1.0
docker pull leeyr0412/openai:1.0

docker run -d --network keeping-network --name openai-service \
-e "spring.cloud.config.uri=http://config-service:8888" \
-e "spring.rabbitmq.host=rabbitmq" \
-e "spring.datasource.url=jdbc:mysql://mysqldb:3306/keeping?useSSL=false&characterEncoding=UTF-8&allowPublicKeyRetrieval=true" \
-e "eureka.client.serviceUrl.defaultZone=http://discovery-service:8762/eureka/" \
-e "logging.level.org.hibernate=info" \
-e "logging.level.com.keeping.openaiservice=info" \
--name member-service leeyr0412/openai:1.0
```

13. Question Service

```
docker build -t leeyr0412/question:1.0 .
docker push leeyr0412/question:1.0
docker pull leeyr0412/question:1.0

docker run -d --network keeping-network --name question-service \
-e "spring.cloud.config.uri=http://config-service:8888" \
-e "spring.rabbitmq.host=rabbitmq" \
-e "spring.redis.host=redis" \
-e "spring.datasource.url=jdbc:mysql://mysqldb:3306/keeping?useSSL=false&characterEncoding=UTF-8&allowPublicKeyRetrieval=true" \
-e "eureka.client.serviceUrl.defaultZone=http://discovery-service:8762/eureka/" \
-e "logging.level.org.hibernate=info" \
-e "logging.level.com.keeping.questionservice=info" \
--name member-service leeyr0412/question:1.0
```