

# Banking APP

To clean install maven

Go to the project directory where you see mvnw

If no permission

chmod +x mvnw

./mvnw clean install -DskipTests

## Dockerization:

My System IP: 192.168.0.101

— create docker image for registry-service

docker build -t bankingapp/registry-service:latest .

docker run -d --name=registry-service -p 8761:8761 bankingapp/registry-service

Registry: "IPAddress": "172.17.0.2"

— create docker image for gateWay-service

docker build -t bankingapp/gateway-service:latest .

docker run -d --name=gateway-service -p 8111:8111 -e

"REGISTRY\_SERVER\_HOST=172.17.0.2" bankingapp/gateway-service

— create docker image for mysql

Stop all mysql services in local os

docker run -dp 3306:3306 --name mysql2 -v mysql-vol:/var/lib/mysql -e

MYSQL\_ROOT\_PASSWORD=root -e MYSQL\_DATABASE=lowes -e

MYSQL\_USER=mysql -e MYSQL\_PASSWORD=mysql mysql:8.0.29

Connect locally using:

mysql -h localhost -P 3306 --protocol=tcp -u mysql -p. ( only for Mac, linux  
connect this way changing the protocol to TCP)

— create docker image for zookeeper , Kafka using docker-compose file

Navigate to the location where docker-compose-kafka.yml. located and run

docker-compose -f docker-compose-kafka.yml up -d

— create docker image for account-service

docker build -t bankingapp/account-service:latest .

```
docker run -d --name=account-service2 -p 8091:8091 -e
"REGISTRY_SERVER_HOST=172.17.0.2" -e
"KAFKA_BOOTSTRAP_SERVERS=192.168.0.101:9092" bankingapp/account-
service
```

change localhost to mysql container ip in app.properties file in account-service app  
spring.datasource.url=jdbc:mysql://172.17.0.2:3306/lowes?  
createDatabaseIfNotExist=true

— create docker image for fundtransfer-service  
docker build -t bankingapp/fund-transfer-service:latest .  
docker run -d --name=fund-transfer-service1 -p 8093:8093 -e  
"REGISTRY\_SERVER\_HOST=172.17.0.2" -e  
"KAFKA\_BOOTSTRAP\_SERVERS=192.168.0.101:9092" bankingapp/fund-transfer-  
service

change localhost to gateway ip in the account rest template URL in fund transfer  
service app  
"http://172.17.0.4:8111/banking/api/accounts/"

— create docker image for transaction-service  
docker build -t bankingapp/transaction-service .  
docker run -d --name=transaction-service1 -p 8092:8092 -e  
"REGISTRY\_SERVER\_HOST=172.17.0.2" -e  
"KAFKA\_BOOTSTRAP\_SERVERS=192.168.0.101:9092" bankingapp/transaction-  
service

change localhost to mysql container ip in app.properties file in transaction-service  
app  
spring.datasource.url=jdbc:mysql://172.17.0.2:3306/lowes?  
createDatabaseIfNotExist=true

— create docker image for admin-service  
docker build -t bankingapp/admin-service .  
docker run -d --name=admin-service -p 7777:7777 -e  
"REGISTRY\_SERVER\_HOST=172.17.0.2" bankingapp/admin-service

[http://ip172-18-0-111-ca022as33d5g00d1673g-8111.direct.labs.play-with-  
docker.com/shoppingcart/api/products](http://ip172-18-0-111-ca022as33d5g00d1673g-8111.direct.labs.play-with-docker.com/shoppingcart/api/products)

docker stop transaction-service1 fund-transfer-service1 account-service1 mysql2

gateway-service1 registry-service1

docker rm transaction-service1 fund-transfer-service1 account-service1 mysql2  
gateway-service1 registry-service1