

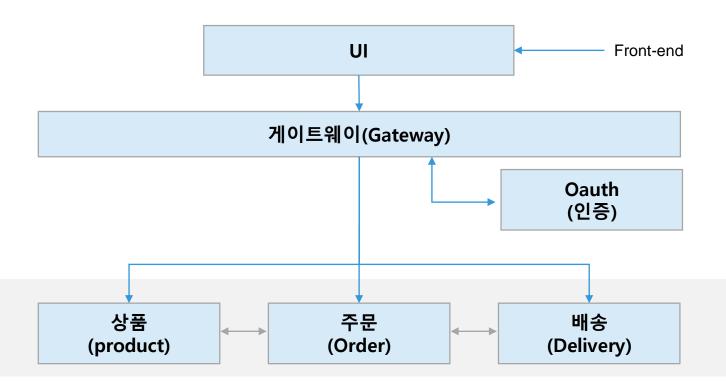
MSA Application Deployment

- Deploy each MicroService Manually
 - 상품, 주문, 배송 서비스 배포
 - 인증, 게이트웨이 배포
 - Front-End 배포

MSA Application - 12 Street



MSA Service Structure



Back-end

상품(Product) 서비스

- 1. Ubuntu 실행
 - 실습스크립트: https://workflowy.com/s/msa/27a0ioMCzlpV04lb#/98ec94e6e26d
- 2. Shell에서 아래 스크립트 실행

Mkdir MSA-Sample cd MSA-Sample

git clone https://github.com/event-storming/reqres_products.git cd reqres_products
mvn package -Dmaven.test.skip=true

az acr build --registry [acr-registry-name] --image [acr-registry-name].azurecr.io/products:latest .

kubectl run products --image= [acr-registry-name].azurecr.io/products:latest kubectl expose deploy products --type="ClusterIP" --port=8080

cd ..

주문(Order) 서비스

- 1. 공통된 작업을 편하게 하기 위해 Container Registry 를 환경변수로 설정
- 2. export 환경변수명=변수값
- 확인
 echo \${환경변수명}

```
export CRNAME=[acr-registry-name] export ACR=${CRNAME}.azurecr.io
```

git clone https://github.com/event-storming/reqres_orders.git cd reqres_orders
export IMAGENAME=orders

mvn package -Dmaven.test.skip=true az acr build --registry \${CRNAME} --image \${ACR}/\${IMAGENAME}:latest . kubectl run \${IMAGENAME} --image=\${ACR}/\${IMAGENAME}:latest kubectl expose deploy \${IMAGENAME} --type="ClusterIP" --port=8080

cd ..

배송, 인증, 게이트웨이 서비스

- git clone https://github.com/event-storming/reqres_delivery.git
- export IMAGENAME=delivery
- git clone https://github.com/event-storming/oauth.git
- IMAGENAME=oauth
- git clone https://github.com/event-storming/gateway.git
- IMAGENAME=gateway
- 게이트웨이는 --type="LoadBalancer" 로 배포해야 함

UI서비스

- 1. VueJs 로 되어있어서 nodejs 및 npm 으로 build 및 package
- 2. UI 에서 게이트웨이 주소를 바로 연결하기 위하여 env 를 설정

git clone https://github.com/event-storming/ui.git cd ui export IMAGENAME=ui

npm install npm run build

az acr build --registry \${CRNAME} --image \${ACR}/\${IMAGENAME}:latest .

_GATEWAY_IP=\$(kubectl get -o jsonpath="{.status.loadBalancer.ingress[0].ip}" svc gateway --ignore-not-found)echo \${_GATEWAY_IP}

UI 서비스 배포

```
cat <<EOF | kubectl apply -f -
apiVersion: apps/v1
kind: Deployment
metadata:
name: ${IMAGENAME}
labels:
  app: ${IMAGENAME}
spec:
replicas: 1
selector:
  matchLabels:
   app: ${IMAGENAME}
template:
  metadata:
   labels:
    app: ${IMAGENAME}
  spec:
   containers:
    - name: ${IMAGENAME}
     image: ${ACR}/${IMAGENAME}:latest
     ports:
      - containerPort: 8080
     env:
      - name: VUE_APP_API_HOST
       value: http://${_GATEWAY_IP}:8080
FOF
kubectl expose deploy ${IMAGENAME} --type="LoadBalancer" --port=8080
cd ..
```