Deploying the Catalog microservice to AKS

Let's deploy the Catalog microservice to our Kubernetes cluster.

In Play.Catalog

1. Update catalog.yaml adding a Deployment and Service (start from copy of identity.yaml):

```
apiVersion: apps/v1
kind: Deployment
metadata:
name: catalog-deployment
spec:
selector:
 matchLabels:
   app: catalog
template:
  metadata:
   labels:
    app: catalog
    azure.workload.identity/use: "true"
  spec:
   serviceAccountName: identity-serviceaccount
   containers:
    - name: catalog
     image: playeconomy.azurecr.io/play.catalog:1.0.4
     imagePullPolicy: Always
     env:
      - name: ServiceSettings__MessageBroker
       value: SERVICEBUS
      - name: ServiceSettings__KeyVaultName
       value: playeconomy
      - name: ServiceSettings__Authority
       value: https://playeconomy.eastus.cloudapp.azure.com/identity-svc
     resources:
      limits:
       memory: "128Mi"
       cpu: "150m"
     ports:
      - containerPort: 5000
     livenessProbe:
      httpGet:
       path: /health/live
       port: 5000
      initialDelaySeconds: 10
     readinessProbe:
```

```
httpGet:
       path: /health/ready
       port: 5000
      initialDelaySeconds: 10
apiVersion: v1
kind: Service
metadata:
name: catalog-service
spec:
type: ClusterIP
selector:
  app: catalog
 ports:
  - port: 80
   targetPort: 5000
apiVersion: v1
kind: ServiceAccount
metadata:
name: catalog-serviceaccount
annotations:
  azure.workload.identity/client-id: 0f44e49e-7c49-44af-8eaf-b3c4aa9d2793
labels:
  azure.workload.identity/use: "true"
2. Deploy the updated catalog.yaml:
kubectl apply -f .\kubernetes\catalog.yaml -n $namespace
3. Start waiting for pod to reach Running state
In Play.Infra
"So, here we are back in Infra..."
4. Add the catalog mapping:
apiVersion: getambassador.io/v3alpha1
kind: Mapping
metadata:
```

name: catalog-mapping

spec:

hostname: playeconomy.eastus.cloudapp.azure.com

prefix: /catalog-svc/

service: catalog-service.catalog

- 5. Apply mapping.yaml
- 6. Commit and push

In Postman

- Add catalogBaseUrl to the Local and Cloud Postman environments https://localhost:5001 https://playeconomy.eastus.cloudapp.azure.com/catalog-svc
- 8. Select the Cloud environment
- 9. Open the POST /items request in Catalog collection
- 10. Ensure the auth scopes include catalog.fullaccess
- 11. Get an access token
- 12. Update the POST Url to use catalogBaseUrl.
- 13. Send a POST request to create a Potion:

```
{
  "name": "Potion",
  "description": "Restores a small amount of HP",
  "price": 5
}
```

- 14. Open the GET /items request
- 15. Update the GET Url to use catalogBaseUrl and send it
- 16. Commit and push

In the next assignment you will deploy the Inventory and Trading microservices.