Deploy a microservice application on AKS cluster and access it using public internet

Deploying a microservice application on Azure Kubernetes Service (AKS) and making it accessible from the public internet.

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There are some steps as follow:
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Step 1: First I'll create an AKS Cluster, for this
First, creating a resource group and AKS cluster:
$ az login
$ az group create --name myResourceGroup --location eastus
$ az aks create \
  --resource-group myResourceGroup \
  --name myAKSCluster \
  --node-count 2 \
  --enable-addons monitoring \
  --generate-ssh-keys
Connecting to my cluster:
$ az aks get-credentials --resource-group myResourceGroup --name myAKSCluster
# Verify connection
$ kubectl get nodes
Step 2: Deploying a Sample Microservice Application
# app-deployment.yaml
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apiVersion: apps/v1
kind: Deployment
metadata:
 name: sample-app
spec:
 replicas: 3
 selector:
  matchLabels:
   app: sample-app
 template:
  metadata:
   labels:
    app: sample-app
  spec:
   containers:
```

```
- name: web
    image: nginx:latest
    ports:
    - containerPort: 80
    resources:
      requests:
       memory: "128Mi"
       cpu: "100m"
      limits:
       memory: "256Mi"
       cpu: "200m"
Deploy the application:
$ kubectl apply -f app-d ployment.yaml
Step 3: Now I'm Exposing the Application to Public Internet using LoadBalancer Service
Creating a LoadBalancer service:
# app-service.yaml
apiVersion: v1
kind: Service
metadata:
 name: sample-app-service
spec:
 type: LoadBalancer
 selector:
  app: sample-app
 ports:
  - port: 80
   targetPort: 80
   protocol: TCP
Apply the service:
$ kubectl apply -f app-service.yaml
Get the external IP:
$ kubectl get service sample-app-service
```

Step 4: Accessing our Application

Once we have the external IP address, we can access our application as follow:

Using curl \$ curl http://<EXTERNAL-IP>

Or open in browser http://<EXTERNAL-IP>