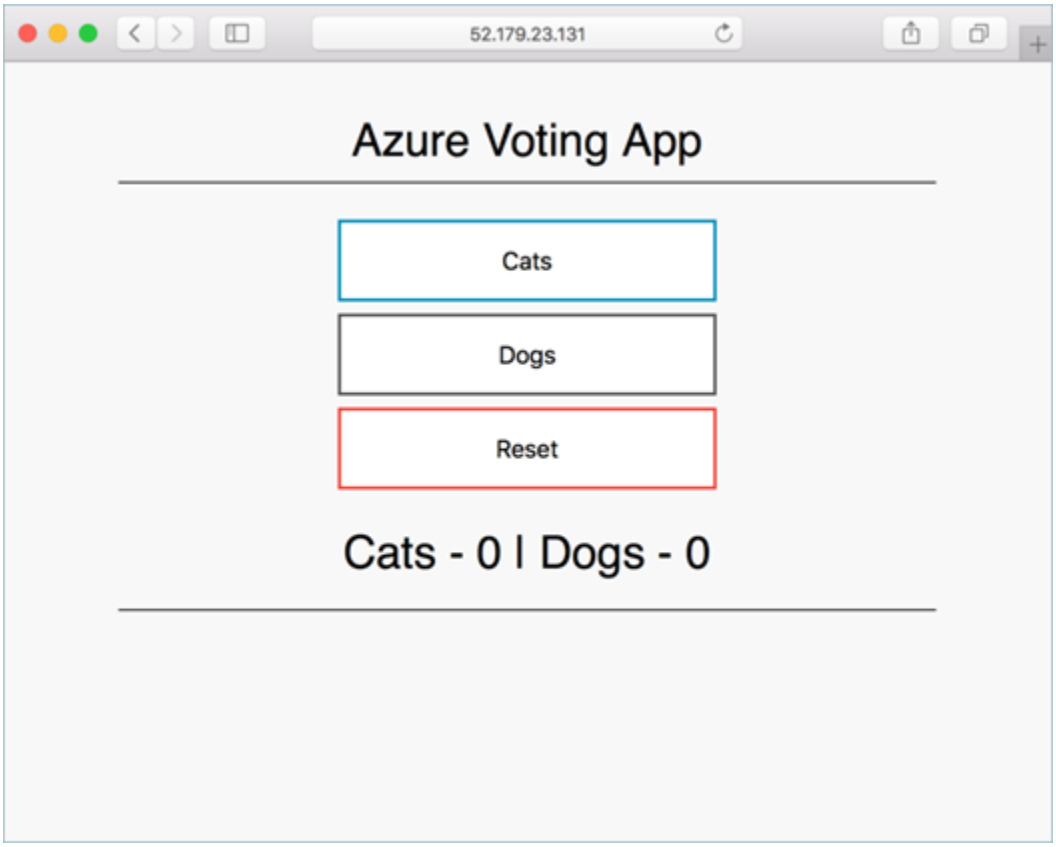
Deploy an Azure Kubernetes Service cluster using the Azure CLI

Azure Kubernetes Service (AKS) is a managed Kubernetes service that lets you quickly deploy and manage clusters. In this quickstart, you will:

- Deploy an AKS cluster using the Azure CLI.
- Run a sample multi-container application with a web front-end and a Redis instance in the cluster.



az provider show -n Microsoft.OperationsManagement -o table

az provider show -n Microsoft.OperationalInsights -o table

az provider register --namespace Microsoft.OperationsManagement

az provider register --namespace Microsoft.OperationalInsights

az group create --name myResourceGroup --location eastus

az aks create -g myResourceGroup -n myAKSCluster --enable-managed-identity --node-count 1 --enable-addons monitoring

az aks install-cli

az aks get-credentials --resource-group myResourceGroup --name myAKSCluster

kubectl get nodes

Deploy the Applications

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: azure-vote-back
spec:
  replicas: 1
  selector:
    matchLabels:
      app: azure-vote-back
  template:
    metadata:
      labels:
        app: azure-vote-back
    spec:
      nodeSelector:
        "kubernetes.io/os": linux
```

```
      containers:
      - name: azure-vote-back
        image: mcr.microsoft.com/oss/bitnami/redis:6.0.8
        env:
        - name: ALLOW_EMPTY_PASSWORD
          value: "yes"
        resources:
          requests:
            cpu: 100m
            memory: 128Mi
          limits:
            cpu: 250m
            memory: 256Mi
        ports:
        - containerPort: 6379
          name: redis
---
apiVersion: v1
kind: Service
metadata:
  name: azure-vote-back
spec:
  ports:
  - port: 6379
  selector:
    app: azure-vote-back
---
apiVersion: apps/v1
kind: Deployment
```

```
metadata:
  name: azure-vote-front
spec:
  replicas: 1
  selector:
    matchLabels:
      app: azure-vote-front
  template:
    metadata:
      labels:
        app: azure-vote-front
    spec:
      nodeSelector:
        "kubernetes.io/os": linux
      containers:
      - name: azure-vote-front
        image: mcr.microsoft.com/azuredocs/azure-vote-front:v1
        resources:
          requests:
            cpu: 100m
            memory: 128Mi
          limits:
            cpu: 250m
            memory: 256Mi
        ports:
        - containerPort: 80
        env:
        - name: REDIS
          value: "azure-vote-back"
```

```
---
apiVersion: v1
kind: Service
metadata:
  name: azure-vote-front
spec:
  type: LoadBalancer
  ports:
  - port: 80
  selector:
    app: azure-vote-front
```

```
kubectl apply -f azure-vote.yaml
```

```
kubectl get service azure-vote-front –watch
```

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