Exercise 7 – Create ACS and AKS Clusters in Azure

# Overview

In this exercise we’ll create Kubernetes Clusters in Azure in the Azure Portal and in the Azure CLI

# Create the Service Principal

# Create ACS Cluster for Kubernetes in the Azure Portal

# Setup kubectl

az acs kubernetes get-credentials --resource-group <resourceGroup> --name <acsClusterName>

# Create the Service Principal

az provider register -n Microsoft.ContainerService

# Set the current subscrition

az account set --subscription "Visual Studio Professional with MSDN"

$subscriptionId = $(az account list | ConvertFrom-Json) | Where-Object { $\_.name -eq "Visual Studio Professional with MSDN" } | Select-Object -ExpandProperty id

$subscriptionId

# Create an Azure AD Service Principal

$serviceprincipal = $(az ad sp create-for-rbac --name "aks" --role contributor --scopes /subscriptions/$subscriptionId | ConvertFrom-Json)

# Test the service principal

# log out

az logout

# Login as the Service Principal

az login --service-principal -u $serviceprincipal.appId -p $serviceprincipal.password --tenant $serviceprincipal.Tenant

# Check for vm sizes

az vm list-sizes --location eastus

# Check for locations

az account list-locations

# Logout of the Service Principal

az logout

# Create AKS Cluster using the Azure CLI

# Setup Kubectl

az aks get-credentials --resource-group <resourceGroup> --name <aksClusterName>

# Open each of their respective UIs

# Open Kubernetes UI

# Azure Container Service v1

az acs Kubernetes browse --resource-group <resourceGroup> --name <acsClusterName>

# Azure Container Service v2

az aks browse --resource-group <resourceGroup> --name <aksClusterName>