AKS in Action

Manoj Ravikumar Nair
CLOUD SOLUTIONS ARCHITECT

@powershellpro http://aka.ms/manojnair

Module Overview

Review the application and our development environment

Containerize the application

Deploy the application to a local Kubernetes Cluster

Pushing the image to Azure Container Registry

Creating a AKS cluster using the Azure CLI

Running our container images in AKS

Scaling our application and Kubernetes infrastructure

Updating our application running in AKS

A Quick Tour of Our Development Environment

Building the Docker Image

Deploying the Application to a Local Kubernetes Cluster

Pushing the Image to Azure Container Registry

Deploy an Azure Kubernetes Service (AKS) Cluster

Create an Azure Service Principal

You interactively log on to the Azure Portal or the CLI using your Azure Account

For applications, it's not recommended to use your Azure AD credentials

It's recommended to register an application in Azure AD and create an identity for the application (i.e. Service Principal)

Deploy the Application to AKS Cluster

Scaling an Azure Kubernetes Service (AKS) Cluster Nodes

Scaling Pods Manually

Updating the Application

Module Summary

- Reviewed our development environment and the application code
- Containerized our application
- Deployed the application to a local Kubernetes cluster
- Deployed an Azure Container Registry (ACR) and pushed our Docker image
- Created a single node AKS Cluster
- Deployed our application to AKS
- Scaled the AKS cluster and the application
- Updated the application running in the AKS cluster