Main.tf

provider "azurerm" {

features {}

}

resource "azurerm\_resource\_group" "rg" {

name = "rgDemo01"

location = "East US"

}

resource "azurerm\_kubernetes\_cluster" "default" {

name = "aksDemo01"

location = azurerm\_resource\_group.rg.location

resource\_group\_name = azurerm\_resource\_group.rg.name

dns\_prefix = "k8sdns"

kubernetes\_version = "1.27.7"

default\_node\_pool {

name = "default"

node\_count = 2

vm\_size = "Standard\_D2s\_v3"

os\_disk\_size\_gb = 30

}

identity {

type = "SystemAssigned"

}

role\_based\_access\_control\_enabled = true

tags = {

environment = "Demo"

}

}

Dockerfile

FROM httpd:latest

COPY ./index.html /usr/local/apache2/htdocs/

EXPOSE 80

Pod.yml

apiVersion: v1

kind: Pod

metadata:

name: web-pod

spec:

containers:

- name: web-container

image: acrshubdemo01e.azurecr.io/shub-image:v1

ports:

- containerPort: 80

Index.html

<h1>Heading</h1>

<h2>Welcome to my site. This is a test site.</h2>