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

```yaml
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

```html
  <h1>Heading</h1>
  <h2>Welcome to my site. This is a test site.</h2>
```