

# AKS + ACR + Docker + Manifest Full Deployment Guide

## 1. Create Resource Group

- `az group create --name myResourceGroup --location eastus`

## 2. Create AKS Cluster with ACR attached

- `az aks create \  
 --resource-group myResourceGroup \  
 --name myAKSCluster \  
 --node-count 2 \  
 --enable-addons monitoring \  
 --generate-ssh-keys \  
 --attach-acr myAcrName`

## 3. Get AKS Credentials

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

## 4. Build and Push Docker Image

- `cd myapp  
docker build -t myapp:latest .  
docker tag myapp:latest myAcrName.azurecr.io/myapp:latest  
docker push myAcrName.azurecr.io/myapp:latest`

## 5. Create and Apply Kubernetes Manifest

- `# Create deployment.yaml file with Deployment and Service definition  
kubectl apply -f deployment.yaml`

## 6. Check Kubernetes Resources

- `kubectl get deployments  
kubectl get pods  
kubectl get services  
kubectl get nodes`

## 7. Monitor & Troubleshoot

- `kubectl logs  
kubectl describe pod`

## 8. Clean Up Resources

- `az group delete --name myResourceGroup --yes --no-wait`