# AKS Deployment

Azure Container Service (AKS) makes it simple to create, configure, and manage a cluster of virtual machines that are preconfigured to run containerized applications. This enables you to use your existing skills, or draw upon a large and growing body of community expertise, to deploy and manage container-based applications on Microsoft Azure.

By using AKS, you can take advantage of the enterprise-grade features of Azure, while still maintaining application portability through Kubernetes and the Docker image format.

**Run the following CLI commands to deploy AKS.**

az group create --name myResourceGroup --location eastus

az aks create --resource-group myResourceGroup --name myAKSCluster --node-count 1 --generate-ssh-keys

az aks install-cli

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

Verify the cluster is running by running the following command.

kubectl get nodes

You should see something similar to the output shown below

jordan-nielsen:~ jordannielsen$ kubectl get nodes

NAME STATUS ROLES AGE VERSION

aks-nodepool1-22349956-0 Ready agent 12h v1.7.9

See the following link for more information on standing up AKS clusters.

<https://docs.microsoft.com/en-us/azure/aks/kubernetes-walkthrough>