Install

**minikube**

1. choco install minikube, kubectl
2. update hyperV (<https://github.com/kubernetes/minikube/issues/1793> )
3. minikube start --vm-driver hyperv --hyperv-virtual-switch "Primary Virtual Switch"

**EKS**

1. login with mfa through command line

aws sts get-session-token --serial-number arn:aws:iam::XXX:mfa/XXX --token-code XXX (<https://aws.amazon.com/premiumsupport/knowledge-center/authenticate-mfa-cli/> )

1. download authenticator and kubeconfig (<https://docs.aws.amazon.com/eks/latest/userguide/getting-started.html>)

Configure

set KUBECONFIG=C:\Users\XX\kubeconfig

kubectrl config get-contexts

kubectrl config set-context xxx

Deploy

kubectl run <name> --image=<image-name> # Launch a pod called <name> using image <image-name>

kubectl create -f <manifest.yaml> # Create a service/deployment described in <manifest.yaml>

kubectl apply -f <manifest.yaml> # Create/update a service/deployment described in <manifest.yaml>

kubectl scale --replicas=<count> <name> # Scale <name> to <count> instances

kubectl expose <name> --port=<external> --target-port=<internal> # Map port <external> to port <internal> on replication

Investigate

kubectl log podname containername

kubectl exec -it podname bash

kubectl get pods # List the current pods

kubectl describe pod <name> # Describe pod <name>

kubectl get rc # List the replication controllers

kubectl get rc --namespace="<namespace>" # List the replication controllers in <namespace>

kubectl describe rc <name> # Describe replication controller <name>

kubectl get svc # List the services

kubectl describe svc <name> # Describe service <name>