Installation:

* + VirtualBox
  + Minikube
  + kubectl

1) CREATE AND START A CLUSTER - Master and Nodes are created

The Master coordinates the cluster.

Nodes are the workers that run applications.

.\minikube.exe start --kubernetes-version="v1.4.0" --vm-driver="virtualbox" --show-libmachine-logs --alsologtostderr

2) CHECK IF CLUSTER IS RUNNING

.\minikube.exe status

.\kubectl.exe cluster-info

3) LAUNCH DASHBOARD

.\minikube.exe dashboard

4) DEPLOY THE APP

Deploy your containerized applications on top of cluster.

.\kubectl.exe run hello-nginx --image=nginx --port=80

GET PODS

When we create a Deployment on Kubernetes, that Deployment creates Pods with containers inside them (as opposed to creating containers directly).

Each Pod is tied to the Node. In case of a Node failure, identical Pods are scheduled on other available Nodes in the cluster.

.\kubectl.exe get pods

5) EXPOSE THE APP PUBLICULY

.\kubectl.exe expose deployment hello-nginx --type=NodePort

.\kubectl.exe get services

OPEN APP

.\minikube.exe service hello-nginx

6) SCALING AN APPLICATION

.\kubectl scale --replicas=3 deployment/hello-nginx

.\kubectl.exe get deployment