**Basic controls**

See minikube in action!

Start a cluster by running:

minikube start

Access the Kubernetes dashboard running within the minikube cluster:

minikube dashboard

Once started, you can interact with your cluster using kubectl, just like any other Kubernetes cluster. For instance, starting a server:

kubectl create deployment hello-minikube --image=k8s.gcr.io/echoserver:1.4

Exposing a service as a NodePort

kubectl expose deployment hello-minikube --type=NodePort --port=8080

minikube makes it easy to open this exposed endpoint in your browser:

minikube service hello-minikube

Upgrade your cluster:

minikube start --kubernetes-version=latest

Start a second local cluster (*note: This will not work if minikube is using the bare-metal/none driver*):

minikube start -p cluster2

Stop your local cluster:

minikube stop

Delete your local cluster:

minikube delete

Delete all local clusters and profiles

minikube delete –all

# Deploying apps

How to deploy an application to minikube

## Kubectl

kubectl create deployment hello-minikube1 --image=k8s.gcr.io/echoserver:1.4

kubectl expose deployment hello-minikube1 --type=LoadBalancer --port=8080

## Addons

minikube has a built-in list of applications and services that may be easily deployed, such as Istio or Ingress. To list the available addons for your version of minikube:

minikube addons list

To enable an add-on, see:

minikube addons enable <name>

To enable an addon at start-up, where –addons option can be specified multiple times:

minikube start --addons <name**1**> --addons <name**2**>

For addons that expose a browser endpoint, you can quickly open them with:

minikube addons open <name>

To disable an addon:

minikube addons disable <name>

**Kubectl**

Use kubectl inside minikube

By default, [kubectl](https://kubernetes.io/docs/tasks/tools/install-kubectl/) gets configured to access the kubernetes cluster control plane inside minikube when the minikube start command is executed.

However if kubectl is not installed locally, minikube already includes kubectl which can be used like this:

minikube kubectl -- <kubectl commands>

You can also alias kubectl="minikube kubectl --" for easier usage.

Alternatively, you can create a symbolic link to minikube’s binary named ‘kubectl’.

ln -s $(which minikube) /usr/local/bin/kubectl

Get pods

minikube kubectl -- get pods

Creating a deployment inside kubernetes cluster

minikube kubectl -- create deployment hello-minikube --image=k8s.gcr.io/echoserver:1.4

Exposing the deployment with a NodePort service

minikube kubectl -- expose deployment hello-minikube --type=NodePort --port=8080

For more help

minikube kubectl -- --help