

minikube install

```
ASHOKs-MBP:python_kubernetes ashokramaraj$ curl -Lo minikube https://storage.googleapis.com/minikube/releases/v0.17.1/minikube-darwin-amd64 && chmod +x minikube && sudo mv minikube /usr/local/bin/
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	
Current			Dload	Upload	Total	Spent	Left
Speed							
100 82.9M	100 82.9M	0	0	1866k	0	0:00:45	0:00:45 --:--:--
1881k							

Password:

```
ASHOKs-MBP:python_kubernetes ashokramaraj$ minikube version
minikube version: v0.17.1
```

<https://github.com/kubernetes/minikube>

virtual box install

install kubectl

```
ASHOKs-MBP:python_kubernetes ashokramaraj$ curl -Lo kubectl https://storage.googleapis.com/kubernetes-release/release/v1.5.3/bin/darwin/amd64/kubectl && chmod +x kubectl && sudo mv kubectl /usr/local/bin/
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	
Current			Dload	Upload	Total	Spent	Left
Speed							
100 47.7M	100 47.7M	0	0	2142k	0	0:00:22	0:00:22 --:--:--
2093k							

```
ASHOKs-MBP:python_kubernetes ashokramaraj$ Kubectl version
Client Version: version.Info{Major:"1", Minor:"5", GitVersion:"v1.5.3",
GitCommit:"029c3a408176b55c30846f0faedf56aae5992e9b", GitTreeState:"clean",
BuildDate:"2017-02-15T06:40:50Z", GoVersion:"go1.7.4", Compiler:"gc",
Platform:"darwin/amd64"}
Server Version: version.Info{Major:"1", Minor:"5", GitVersion:"v1.5.3",
GitCommit:"029c3a408176b55c30846f0faedf56aae5992e9b", GitTreeState:"clean",
BuildDate:"1970-01-01T00:00:00Z", GoVersion:"go1.7.3", Compiler:"gc",
Platform:"linux/amd64"}
```

Minikube Start

```
ASHOKs-MBP:python_kubernetes ashokramaraj$ minikube start
```

Starting local Kubernetes cluster...

Starting VM...

Downloading Minikube ISO

89.26 MB / 89.26 MB [=====]

100.00% 0s

SSH-ing files into VM...

Setting up certs...

Starting cluster components...

Connecting to cluster...

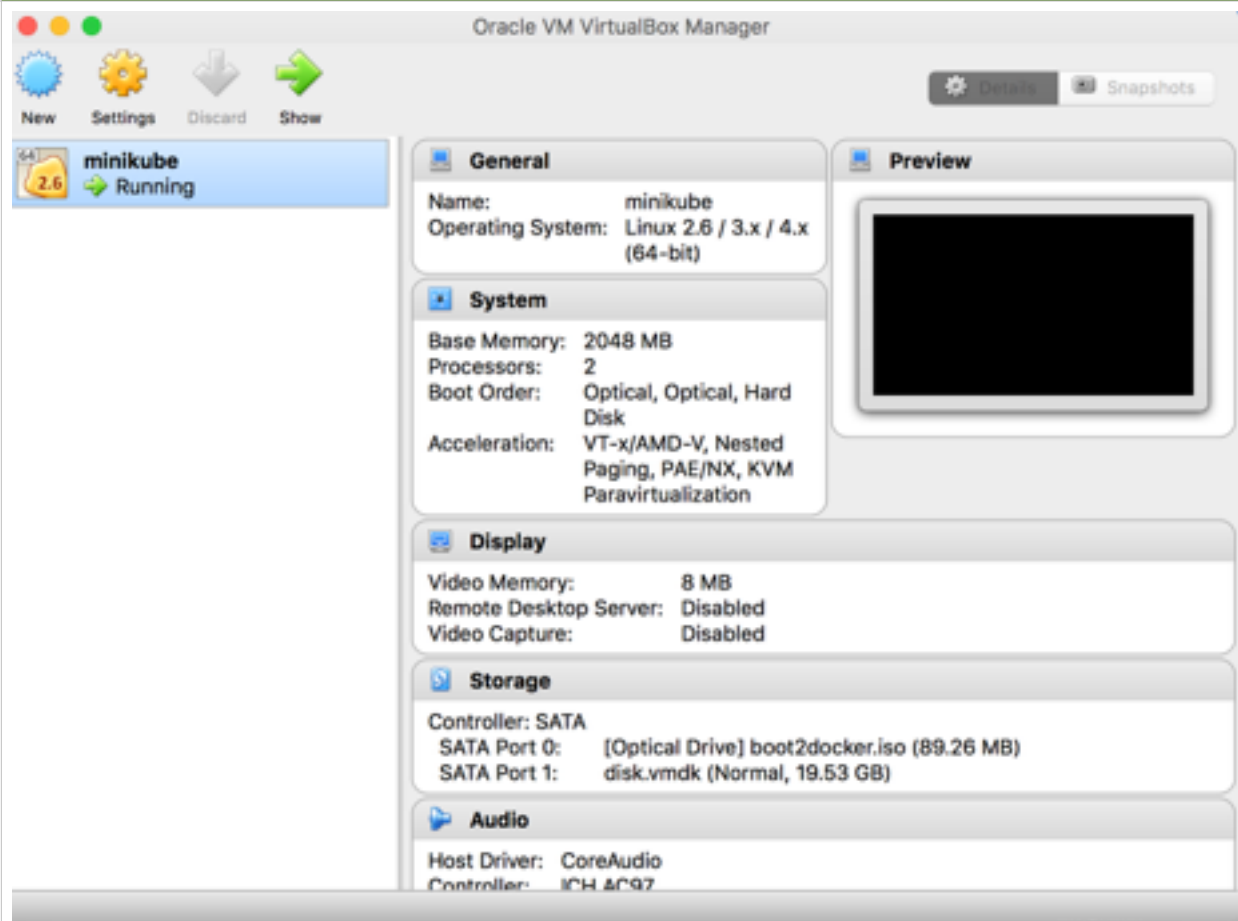
Setting up kubeconfig...

Kubectl is now configured to use the cluster.

Grep minikube

```
ASHOKs-MBP:python_kubernetes ashokramaraj$ ps -ef | grep kube
501 16974 16947 0 Fri12AM ?? 6:16.02 /Applications/
VirtualBox.app/Contents/MacOS/VBoxHeadless --comment minikube --
startvm af307e5a-6861-47f6-a5e8-8429c97332d0 --vrde config
```

Virtual Box – Snapshot



Running Hello Qminikube

```

ASHOKs-MBP:python_kubernetes ashokramaraj$ kubectl run hello-minikube
--image=gcr.io/google_containers/echoserver:1.4 --port=8080
deployment "hello-minikube" created
ASHOKs-MBP:python_kubernetes ashokramaraj$ kubectl expose deployment
hello-minikube --type=NodePort
service "hello-minikube" exposed
ASHOKs-MBP:python_kubernetes ashokramaraj$ kubectl get pod
NAME                                READY    STATUS    RESTARTS   AGE
hello-minikube-3015430129-2vg77    1/1      Running   0           1m
ASHOKs-MBP:python_kubernetes ashokramaraj$ curl $(minikube service
hello-minikube --url)
CLIENT VALUES:
client_address=172.17.0.1
command=GET
real path=/
query=nil
request_version=1.1
request_uri=http://192.168.99.100:8080/

SERVER VALUES:
server_version=nginx: 1.10.0 - lua: 10001

HEADERS RECEIVED:
accept=/*/*
host=192.168.99.100:32547
user-agent=curl/7.43.0
BODY:

```

Minikube Dashboard

The screenshot shows the Minikube Dashboard interface. The browser address bar displays the URL `192.168.99.100:30000/#/workload?namespace=default`. The dashboard has a blue header with the 'kubernetes' logo and a 'Workloads' tab. A left sidebar contains navigation links for Admin (Namespaces, Nodes, Persistent Volumes), Namespace (default), Workloads (selected), Deployments, Replica Sets, Replication Controllers, Daemon Sets, Stateful Sets, Jobs, Pods, and Services and discovery. The main content area shows three sections: Deployments, Replica Sets, and Pods. Each section contains a table of resources.

Deployments

Name	Labels	Pods	Age	Images
hello-minikube	run: hello-mini...	1 / 1	7 minutes	gcr.io/google_co...

Replica Sets

Name	Labels	Pods	Age	Images
hello-minikube-3...	pod-template-h... run: hello-mini...	1 / 1	7 minutes	gcr.io/google_co...

Pods

Name	Status	Restarts	Age
hello-minikube-3015430129-2vg77	Running	0	7 minutes