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 kubektl

```
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.
```
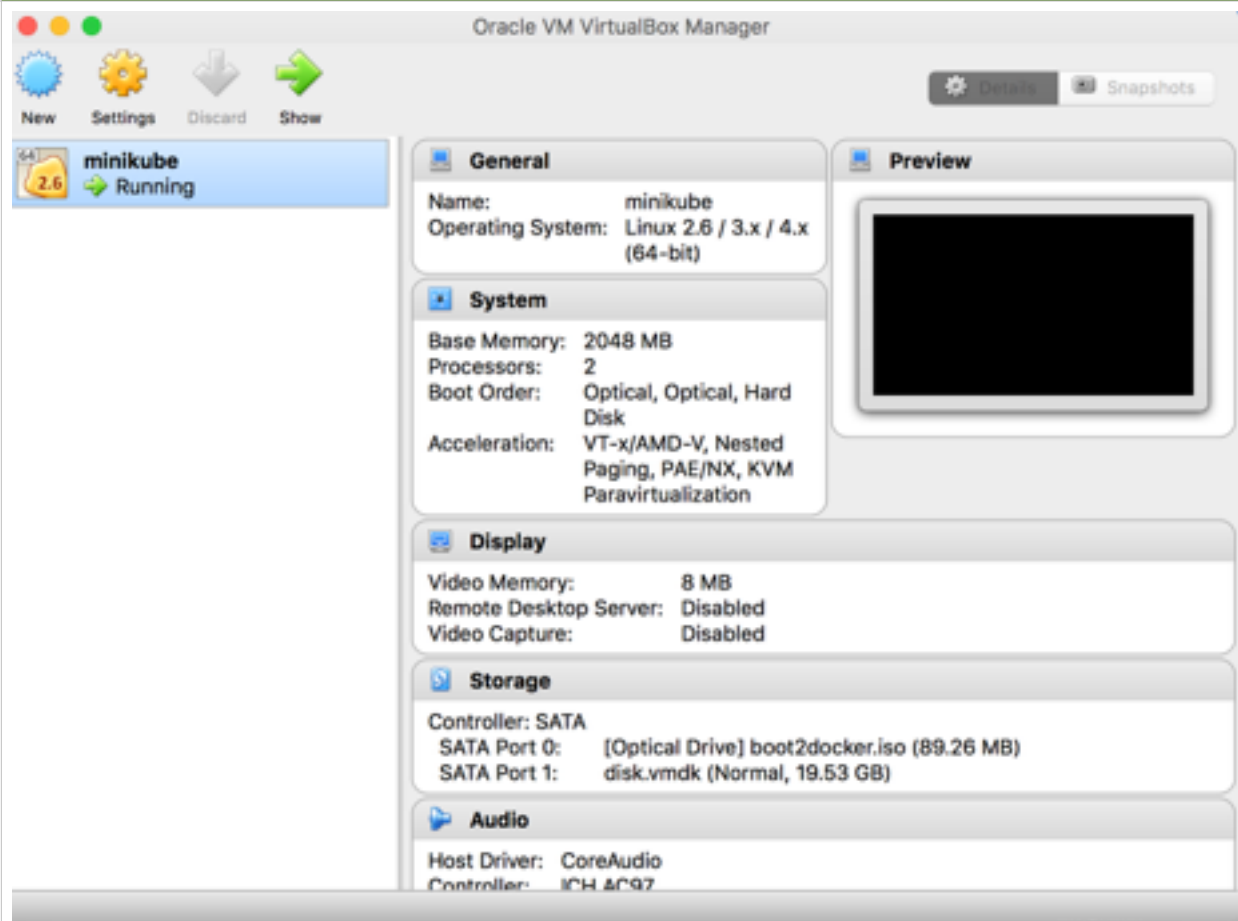
Grep minikube

```
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 Qinikube

```
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