

Once the cluster is setup install the metric server form the below command

```
$ kubectl apply -f
```

```
https://raw.githubusercontent.com/kubernetes/kops/master/addons/metrics-server/v1.8.x.  
yaml
```

Now login to the master server and and

```
vim /etc/kubernetes/manifests/kube-controller-manager.manifest
```

Add the below line to the commands section

```
--horizontal-pod-autoscaler-use-rest-clients=true
```

Note : heapster is required if --horizontal-pod-autoscaler-use-rest-clients is false and you will get the <unknown> issue with HPA and will not able to collect metric logs

It might be required that you do edit the [metrics-server/v1.8.x.yaml](#) file and add the below lines and then do

```
Kubectl apply -f metrics-server-deployment.yaml
```

Add the below lines

First get the metrics-server-deployment.yaml from

Curl

```
https://raw.githubusercontent.com/kubernetes/kops/master/addons/metrics-server/v1.8.x.  
yaml > metrics-server-deployment.yaml
```

```
vim metrics-server-deployment.yaml
```

Add

containers:

- name: metrics-server

image: gcr.io/google_containers/metrics-server-amd64:v0.3.1

imagePullPolicy: Always

volumeMounts:

- name: tmp-dir

mountPath: /tmp

command:

- **/metrics-server**

- **--metric-resolution=30s**

- **--kubelet-insecure-tls**

-

--kubelet-preferred-address-types=InternalIP,Hostname,InternalDNS,ExternalDNS,ExternalIP

Only the bold section needs to be added. From command

Note this is only for metric-server v0.3.1

While installing kops

Once the kops cluster is deployeddo

\$ kops edit cluster

And add the below specs and then update

kubeAPIServer:

runtimeConfig:

autoscaling/v2alpha1: "true"

kubeControllerManager:

horizontalPodAutoscalerUseRestClients: true

kubelet:

enableCustomMetrics: true

Ref : https://github.com/kubernetes/kops/blob/master/docs/horizontal_pod_autoscaling.md