

## SETUP PROMETHEUS MONITORING

1. Create Prometheus Cluster using KOPS  
<https://github.com/kubernetes/kops/tree/master/addons/prometheus-operator>
2. This will create prometheus deployment using in your Kubernetes cluster by creating a separate namespace "monitoring"
3. After this edit the yaml file and create load balancing using your yaml file (use ACM) if needed, for the services mentioned below:-
  - a. alertmanager-main
  - b. prometheus-k8s
  - c. Grafana
4. After this update the yaml file **<kubectl apply -f (file.yaml)>**

## MONITOR APPLICATIONS

1. Prometheus uses CRD to specify which service you want to monitor and in which namespace
2. For this you have to create a servicemonitor in your yaml file and you have to define in that the app name or service name you want to monitor and update the yaml file by using the command mentioned above **<kubectl apply -f (file.yaml)>**
3. The updated CRD will be shown into your kubernetes dashboard in CRD, you can hit the targets and you can see you configured job name in the configuration
4. Now enter the ServiceNameSpace selector in your yaml file to tell prometheus to go and look in our namespaces for the app to be monitored.