HOW TO SETUP MONGODB ON KUBERNETES:-

- 1) Clone the repository https://github.com/justmeandopensource/kubernetes
- 2) Go to cd kubernetes/yamls/mongodb
- 3) Kubectl create -f.
- 4) Now you will get a service and stateful set of mongo deployed and along with it 3 pods for mongodb
- 5) To check the pods execute:-

```
Kubectl get pods
```

```
command terminated with exit code 126

ubuntu@ip-172-31-95-155:~/kubernetes/yamls/mongodb$ kubectl get pods

NAME READY STATUS RESTARTS AGE

mongo-0 1/1 Running 0 6m47s

mongo-1 1/1 Running 0 5m44s

ubuntu@ip-172-31-95-155:~/kubernetes/yamls/mongodb$
```

6) Now exec in mongo-0 pod by executing:-

```
Kubectl exec -it mongo-0 -- mongo
```

7) Follow the steps to start connecting to your replica sets

```
rs.initiate()
```

It will show you result like this

8) Now declare a variable and configure the host along with port number i.e. mongo-0.mongo:27017

9) Now check the status by executing rs.status() and it should give you a response like this

10) Now we will add another two hosts by

```
rs.add("mongo-1.mongo:27017")
rs.add("mongo-2.mongo:27017")
```

Now again check the status by **rs.status()**, in the response all the 3 replica sets should be the members for your mongodb

11) To check weather all of them are working fine run a mongo container and try to connect to your replica sets by executing:-

When you will run the mongo command then all your replica sets should be shown in the response

- 12) To connect to you mongo update your service along with a cluster ip, update your service yaml that you have pulled fro git hub by commenting the cluster ip line and update your service by **kubectl apply -f <service-yaml-name>**, if you are not seeing the cluster ip with your service then try to delete the old service and create new one.
- 13) For checking your connectivity with mongo, deploy an ubuntu shell in kubernetes by

kubectl apply -f https://k8s.io/examples/application/shell-demo.yaml

14) Now exec into the pod and telnet to your mongo service ip along with the port number, if it is not able to connect then there is something wrong in your configuration