Pre setup : Below points are considered in the during this assignment.

* Jenkins server is already setup .
* Kubemaster and 2 worker nodes (if not attached the git link for creation )
* Public cloud Load balancer from aws

Components:

1 Kubernetes master and 2 Worker nodes

Jenkins server

Docker Hub : shettydocker/cassandra

Initial setup :

* Unzip the Shabari\_sre.tgz and unzip in Jenkins Home directory (/var/lib/Jenkins)

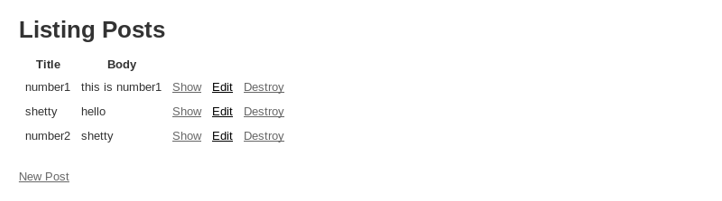
**Jenkins Setup**:

* Install Kubernetes plugin in Jenkins plugin manager
* configure the newly install Kubernetes plugin in cloud . Provide the Kubernetes master url and store config file as credentials for deployment.
* Create a Jenkin Pipeline with Jenkinfile from the zip.

Jenkile file will take care of following stages.

1. **Docker images will be created using DOKCERFILE . the images contains latest version of ruby gems and rails , Java , yorn , Sql lite and Cassandra which is required to run the application .**
2. **Created Docker images push to docker Hub for future use .**

1. **Final stage of pipline the Jenkins will deploy the cassandra.yml to the kubemaster , which creates 3 pods replicas , load balanced services between pods .**
2. **Test the application hitting the load balancer IP.**



Docker image : docker.io/shettydocker/cassandra

Git link : https://github.com/shabarishetty46/assignmenttrucaller.git