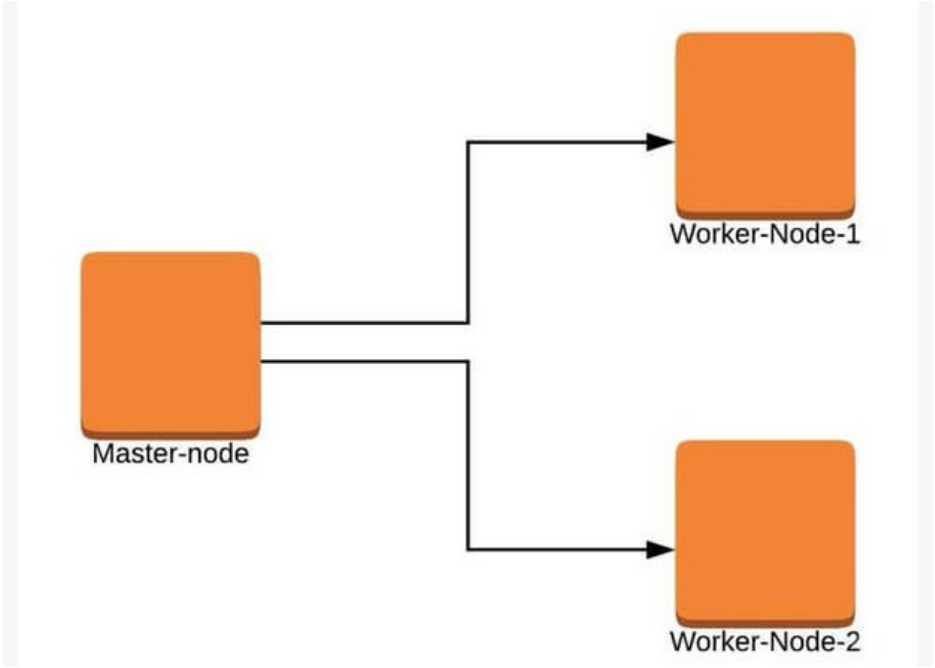
Redis Sentinel Based HA cluster in Kubernetes

For setting up the system we starting to install the necesary requirements we installed three VM with Centos 8 one master and 2 two slaves then we proceed to install docker and kubernetes in all three machines configure the the basic of the operating systems updated the system so at the end we have that works similar to this image:



We followed these tutorials to achieve the desired results:

https://docs.docker.com/engine/install/centos/

https://www.tecmint.com/setup-redis-high-availability-with-sentinel-in-centos-8/

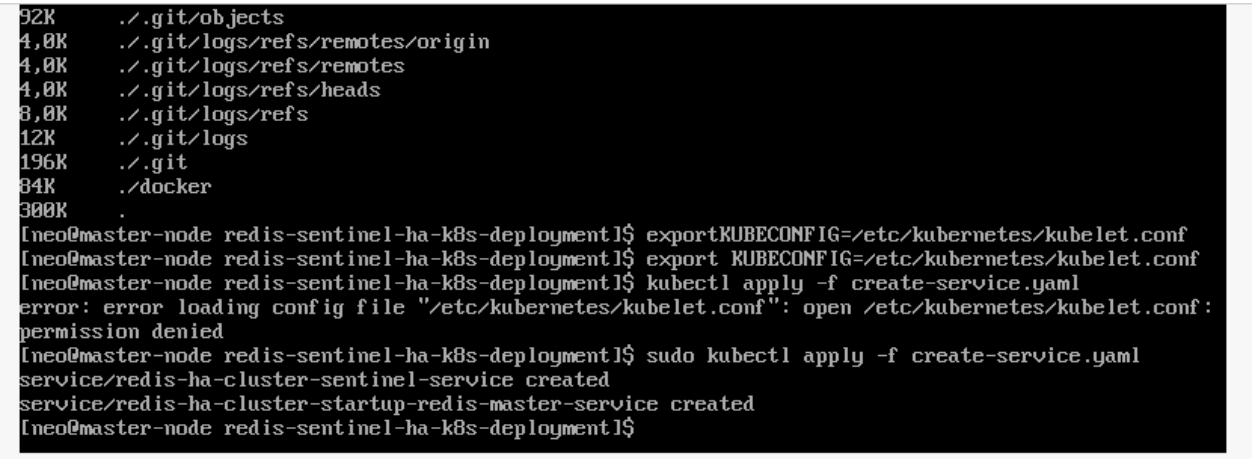
https://upcloud.com/community/tutorials/install-kubernetes-cluster-centos-8/

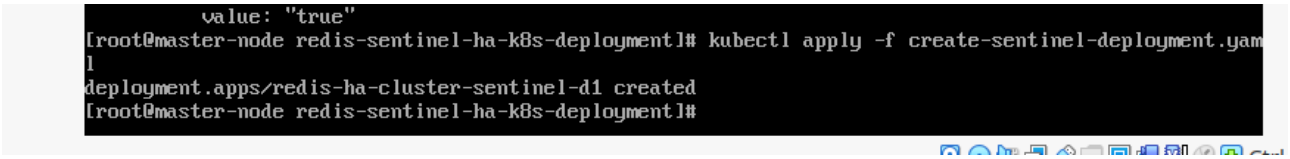
After have the system prepared we proceed to deploy our Redis cluster to kubernetes:

redis-sentinel-ha-k8s-deployment

We use git clone to colone the following repositiroy that has the deployment of all nodes already automated: https://github.com/sarweshsuman/redis-sentinel-ha-k8s-deployment.git

Then following the tutorial https://sarweshsuman-1.medium.com/deploying-redis-ha-cluster-in-kubernetes-437162337625 we proceed to deploy the redis to kubernetes and here are some images of our own cluster:





During the installation and configuration of the system we encounter various issues or errors that we solve along the way, the most important was the lack of internet connection when the containers were started researching the matter we discovery that lacks of disk space cause this behaviour, increase solved the problem.

Virtualbox access credentials:

redis-master1 same for root user:
user: neo
pass: lunes123

redis-slave1 same for root user:
user:neoredis1
pass: lunes123

redis-slave2 same for root user:
user: neo-redis1
pass:lunes123