## **Running Voting App on Kubernetes Cluster**

1. SSH to your AWS Workstation and run the below commands.

```
$ sudo su
# mkdir /home/devops/voting-app/
# cd /home/devops/voting-app/
# git clone https://github.com/LovesCloud/Docker-Voting-Application.git
```

2. Cd to the Cloned Directory

```
# cd Docker-Voting-Application/k8s-specifications/
```

3. Apply the mandatory deployments on the Kubernetes Cluster.

```
# kubectl create ns vote
# kubectl apply -f mandatory/
```

4. Update the vote deployment.

```
# vim vote-deployment.yaml
```

Update <your-name> with your name.

5. Update the vote service

```
# vim vote-service.yaml
```

Update <your-name> with your name.

6. Deploy the vote application and service.

```
# cd ..
# kubectl apply -f k8s-specifications/
```

7. Check the node where your **Vote** and **Result** applications are deployed.

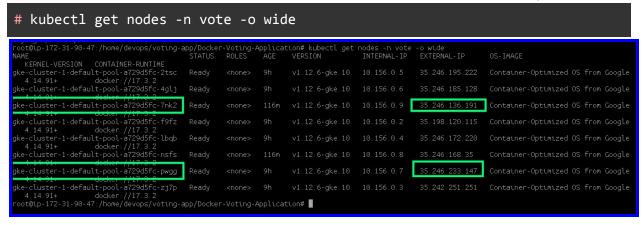
In this example the Vote app has been deployed on Node

**gke-cluster-1-default-pool-a729d5fc-pwgg** and the results app has been deployed also on **gke-cluster-1-default-pool-a729d5fc-7nk2** 

8. Check the NodePort on which the **result and vote app** are exposed on

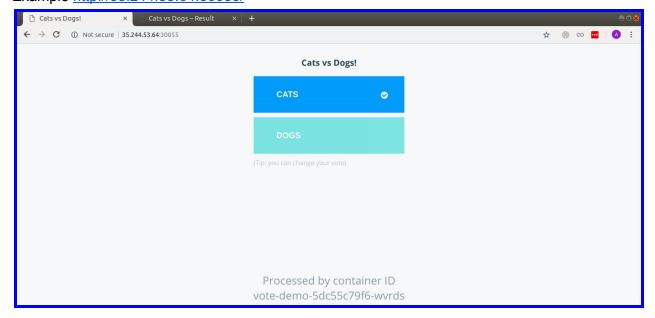
```
# kubectl get svc -n vote
root@ip-172-31-90-47:/home/devops/voting-app/Docker-Voting-Application# kubectl get svc -n vote
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
NAME
               ClusterIP
                              10.31.241.25
                                                                 5432/TCP
db i
                              10.31.245.175
                                                                 6379/TCP
redis
                ClusterIP
               NodePort
                                                                 5001:31001/TCF
               NodePort
vote-albert
 oot@ip-172-31-90-47:/home/devops/voting-app/Docker-Vd
```

9. Check the **Public IP** of the **NODE** on which the **result** and **vote** apps are deployed.



10. Access your **Vote application** from the **Public IP** of the Node followed by the **NodePort** (step 8) on which it is exposed at.

Example <a href="http://35.244.53.64:30055/">http://35.244.53.64:30055/</a>



11. Access your results application from the **Public IP** of the Node followed by the **NodePort** (step 8) on which it is exposed at.

Example <a href="http://35.244.53.64:31001/">http://35.244.53.64:31001/</a>

