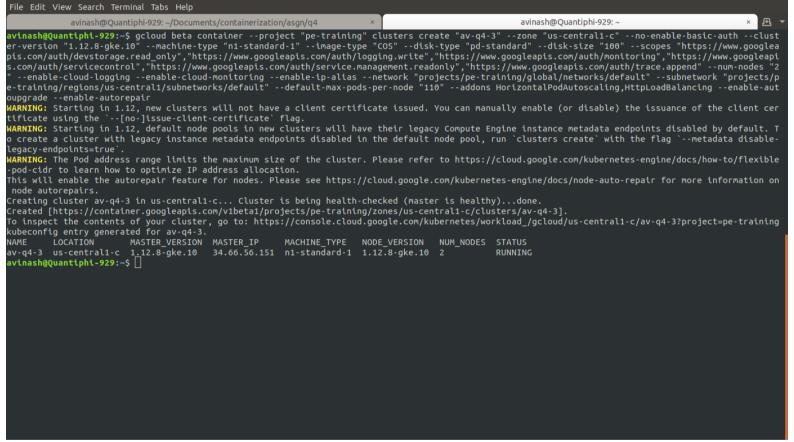
## **Kubernetes (EKS or GKE)**

1: Write Script to creating Microservice using Nginx webserver to show default webpage. Create Kubernetes configuration files. Expose this microservice on ClusterIP, NodePort and as a LoadBalancer. Create a custom webpage to show which pod the page is loading from (it should automatically change with every refresh).

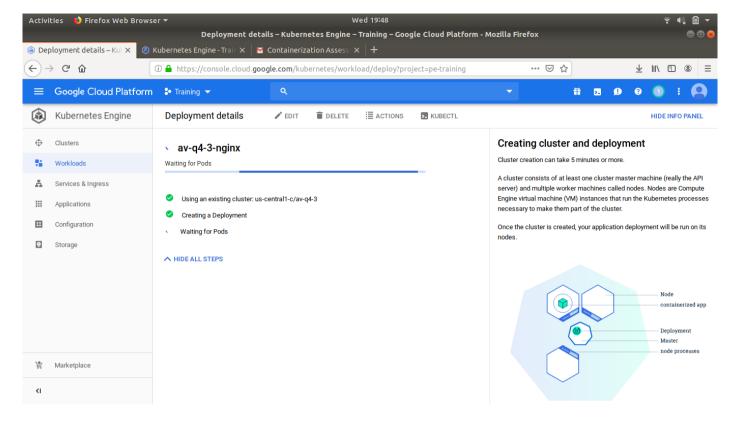
- 1. Build an image for your app.
- 2. Push that image on GCR.

```
avinash@Quantiphi-929:~/Documents/containerization/asgn/q4$ docker push us.gcr.io/pe-training/av-q4-nginx
The push refers to repository [us.gcr.io/pe-training/av-q4-nginx]
0b9faa8019fa: Pushed
547e8c6dc569: Pushed
b079b3fa8d1b: Layer already exists
a31dbd3063d7: Layer already exists
c56e09e1bd18: Layer already exists
543791078bdb: Layer already exists
s43791078bdb: Layer already exists
```

3. Create a Kubernetes Engine Cluster using the following command:



- 4. Go to Kubernetes Engine > Workloads and create a deployment, select your image and click on continue.
- 5. Give the application a suitable name, select your cluster, fill-in other relevant details and click on DEPLOY.



- 6. In the deployent details page, click on actions and then click on expose. Set the port as 80 and select the service type as Cluster IP and click on EXPOSE.
- 7. Repeat step 6 twice, setting the service type as Node port and Load balancer.
- 8. Copy your LoadBalancer's endpoint and paste it in your browser's address bar.
- 9. You'll see your pod's container id. Refresh the page several times to see how the LB transfers the request to another pod.



Pod: 66172bac2006