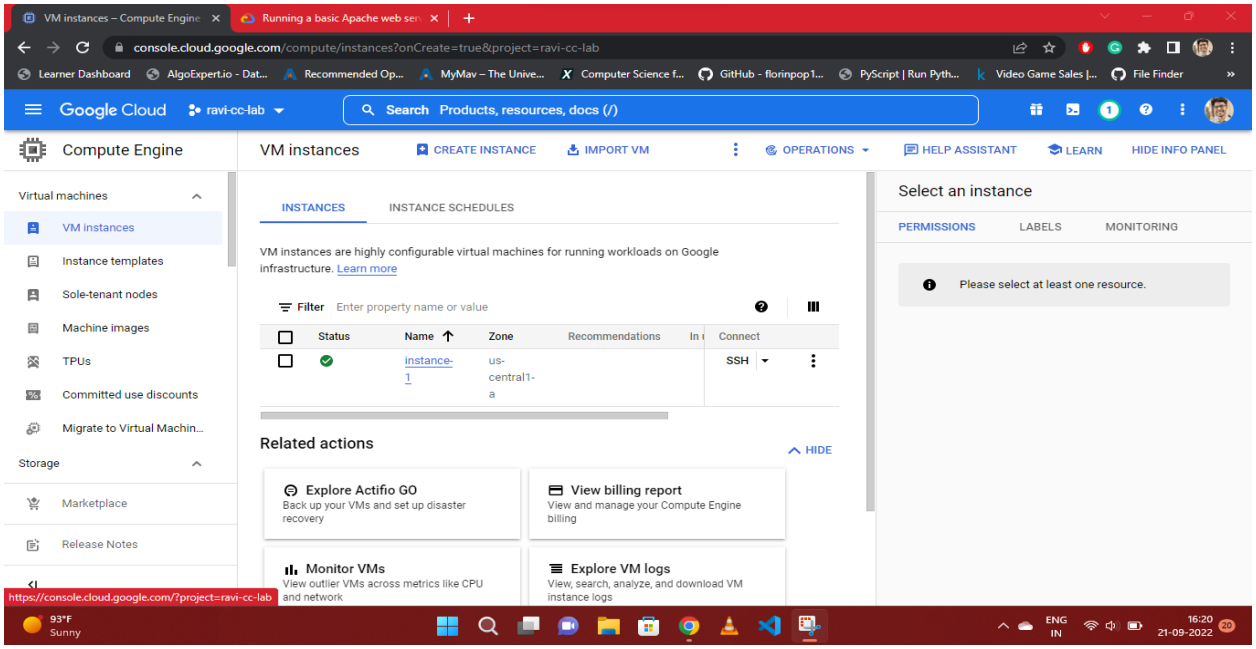
Cloud Computing In-Class Lab 1

Name - Ravi Rajpurohit **UTA ID - 1002079916**

Part B

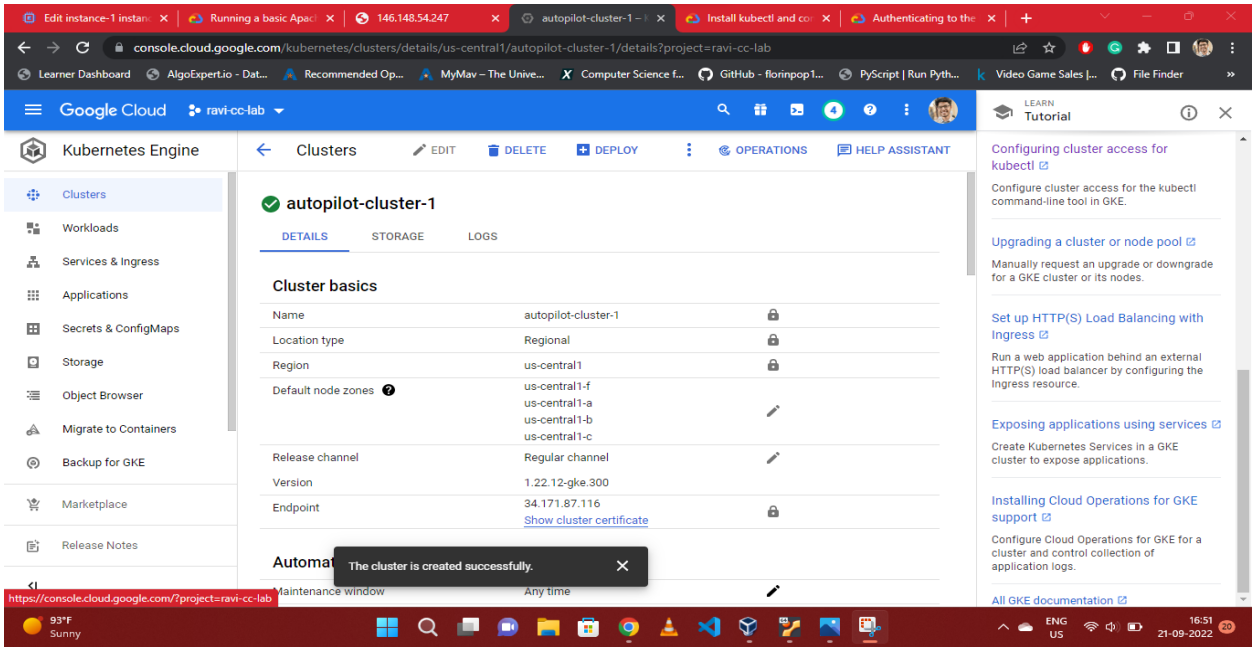
Task 1 - Setup a default compute zone

Setup the VM instance and assigned a default compute zone as us-central1



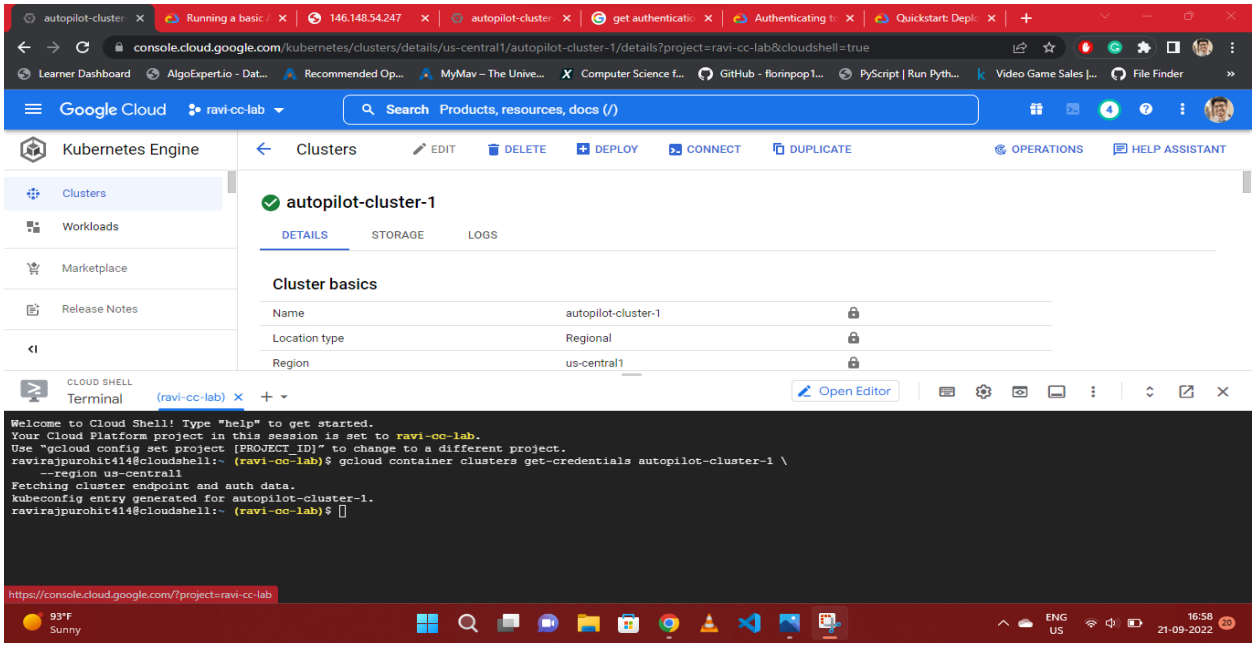
Task 2 - Create a GKE cluster

Created a Google Kubernetes Engine with the default configuration.



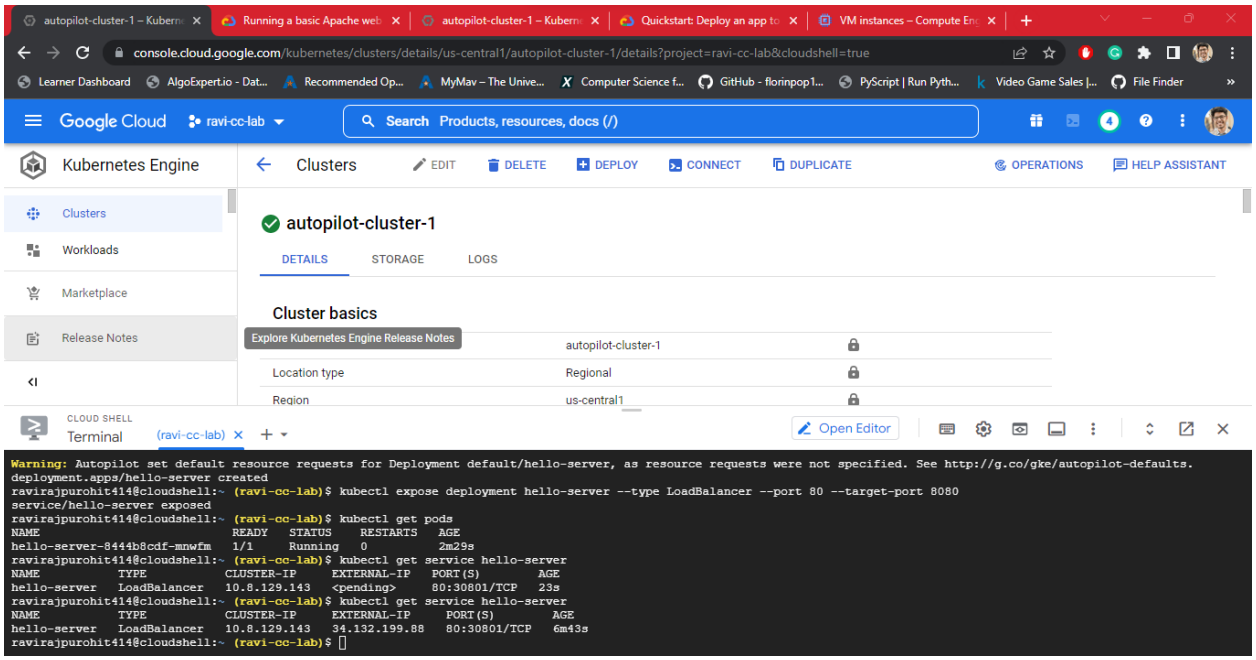
Task 3 - Get authentication credentials for the cluster

Used get-credentials command on console's terminal to fetch the information about the specific cluster



Task 4 - Deploy an application to the cluster

Deployed a hello world app to the autopilot-cluster-1



Task 5 - Deleting the cluster

To stop the use of services, deleted the cluster

```
hello-server   LoadBalancer   10.8.129.143   <pending>     80:30801/TCP   23s
ravirajpurohit414@cloudshell:~ (ravi-cc-lab)$ kubectl get service hello-server
NAME           TYPE           CLUSTER-IP     EXTERNAL-IP     PORT(S)        AGE
hello-server   LoadBalancer   10.8.129.143   34.132.199.88   80:30801/TCP   6m43s
ravirajpurohit414@cloudshell:~ (ravi-cc-lab)$ kubectl get service hello-server
NAME           TYPE           CLUSTER-IP     EXTERNAL-IP     PORT(S)        AGE
hello-server   LoadBalancer   10.8.129.143   34.132.199.88   80:30801/TCP   32m
ravirajpurohit414@cloudshell:~ (ravi-cc-lab)$ kubectl delete service hello-server
service "hello-server" deleted
ravirajpurohit414@cloudshell:~ (ravi-cc-lab)$ gcloud container clusters delete hello-cluster \
    --region us-central1
The following clusters will be deleted.
 - [hello-cluster] in [us-central1]
```