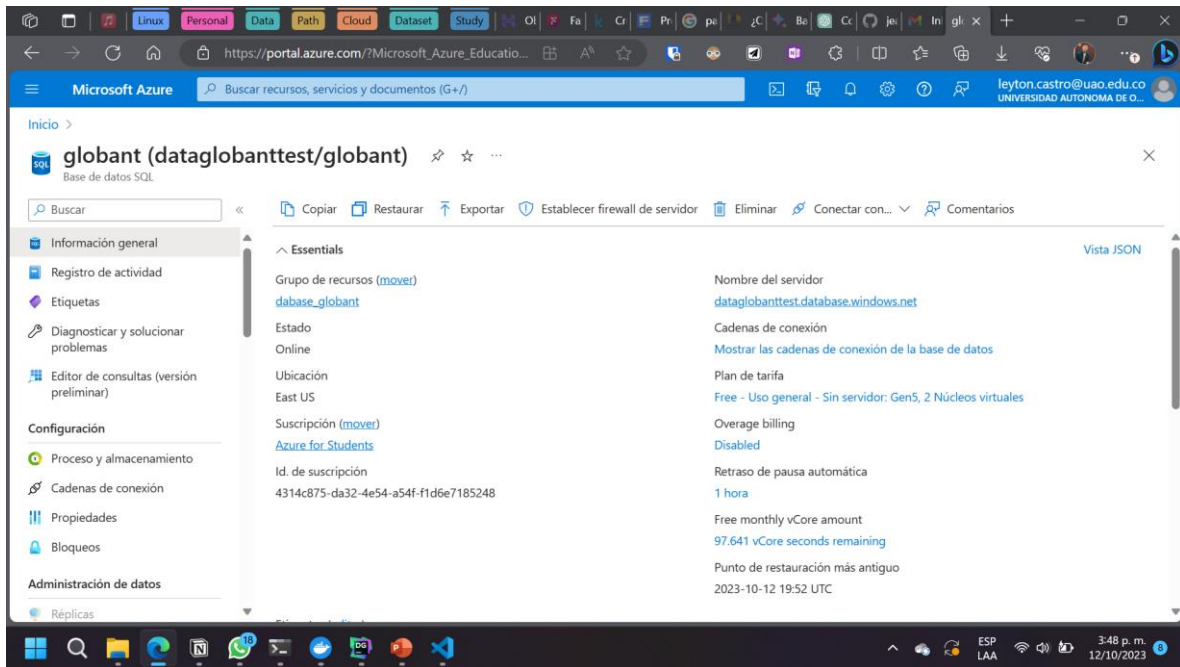
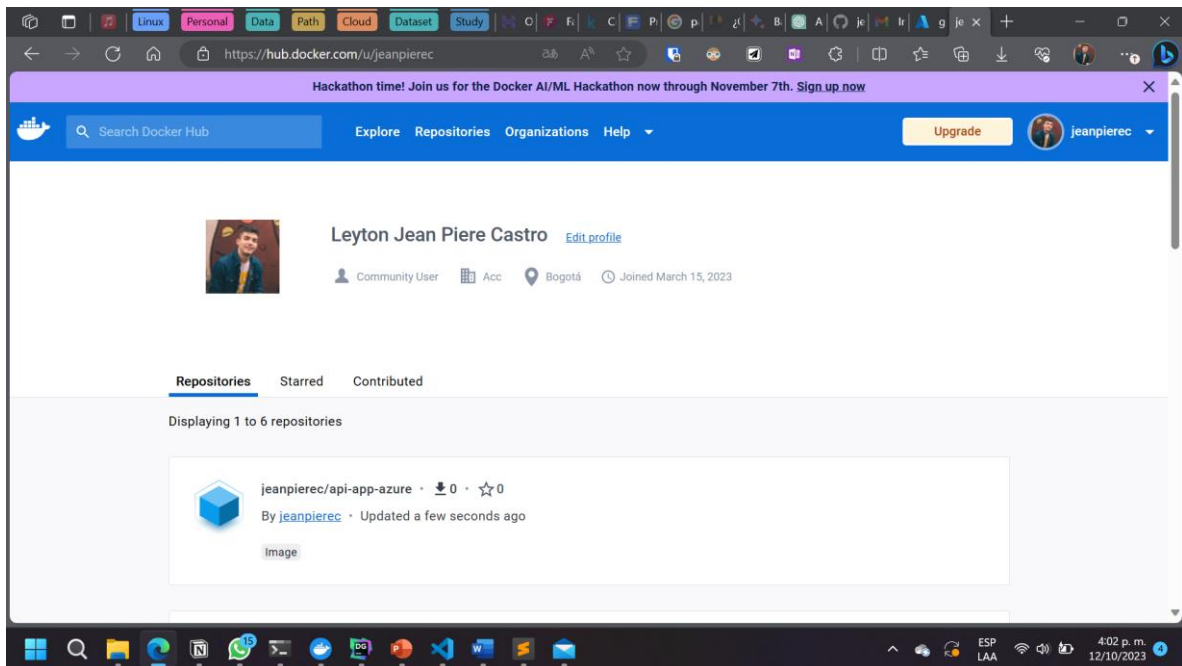


# DEPLOYMENT IN AZURE

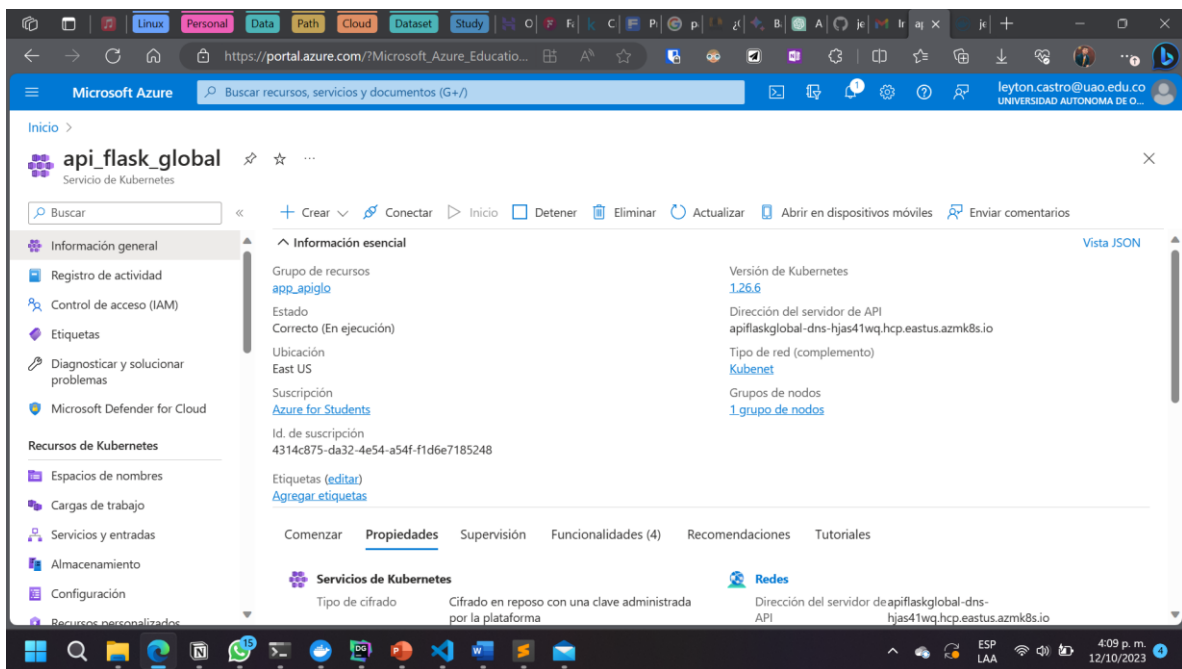
## 1. Create a SQL Server in Azure (MariaDB)



## 2. With the Dockerfile (see more in the GitHub repo), I created a container image in docker hub. We'll use this image for Kubernetes deployment.



### 3. Now, créate a kubernetes cluster (with 2 nodes).



Now, see the nodes.

Microsoft Azure portal interface showing the 'api\_flask\_global' service details. The interface includes a sidebar with navigation options like 'Espacios de nombres', 'Cargas de trabajo', and 'Servicios y entradas'. The main content area shows the service details, including a 'Conectar' button and a 'Comandos de muestra' section with example commands like 'kubectl get deployments --all-namespaces=true'. A terminal window at the bottom shows the execution of 'az aks get-credentials' and 'kubectl get nodes' commands, displaying the output of the 'kubectl get nodes' command.

```
leyton [ ~ ]$ az aks get-credentials --resource-group app_apiglo --name api_flask_global
Merged "api_flask_global" as current context in /home/leyton/.kube/config
leyton [ ~ ]$ kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION
aks-agentpool-59654626-vmss000000	Ready	agent	3m35s	v1.26.6
aks-agentpool-59654626-vmss000001	Ready	agent	3m39s	v1.26.6

```
leyton [ ~ ]$
```

4. Use the "deployment.yaml" file to create the service and expose the service.

Microsoft Azure portal interface showing the 'api\_flask\_global' service configuration and a terminal window.

**Conectarse a api\_flask\_global**

Comandos de muestra

Una vez que haya ejecutado el comando anterior para conectarse al clúster, puede ejecutar los comandos de kubectl. Aquí tiene algunos ejemplos de comandos útiles que puede probar.

Cerrar

**Bash**

```
leyton [ ~ ]$ kubectl apply -f deployment.yaml
deployment.apps/api-app-deployment created
service/api-app-service created
leyton [ ~ ]$ kubectl expose deployment kubermatic-dl-deployment --type=LoadBalancer --port 80 --target-port 5000
Error from server (NotFound): deployments.apps "kubermatic-dl-deployment" not found
leyton [ ~ ]$ kubectl expose deployment api-app-deployment --type=LoadBalancer --port 80 --target-port 5000
service/api-app-deployment exposed
leyton [ ~ ]$ kubectl get service
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
api-app-deployment	LoadBalancer	10.0.129.181	20.119.113.203	80:30648/TCP	15s
api-app-service	LoadBalancer	10.0.239.34	52.226.239.231	80:30558/TCP	61s
kubernetes	ClusterIP	10.0.0.1	<none>	443/TCP	7m25s

Windows taskbar at the bottom shows the time as 4:14 p.m. on 12/10/2023.