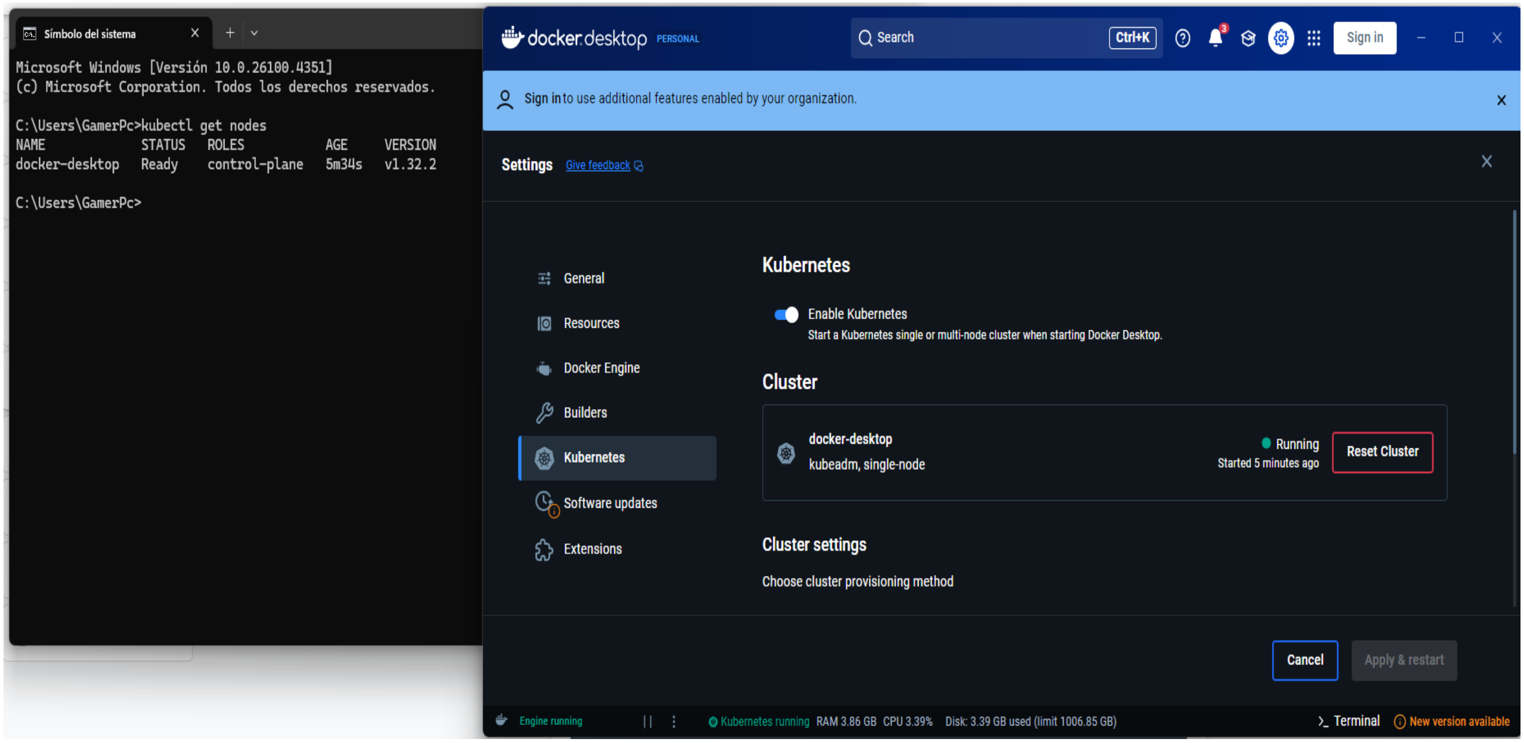
1.Preparar el entorno.



```
Microsoft Windows [Versión 10.0.26100.4351]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\GamerPc>kubectl get nodes
NAME             STATUS   ROLES           AGE    VERSION
docker-desktop   Ready    control-plane   5m34s  v1.32.2

C:\Users\GamerPc>
```

Sign in to use additional features enabled by your organization.

Settings

Kubernetes

Enable Kubernetes
Start a Kubernetes single or multi-node cluster when starting Docker Desktop.

Cluster

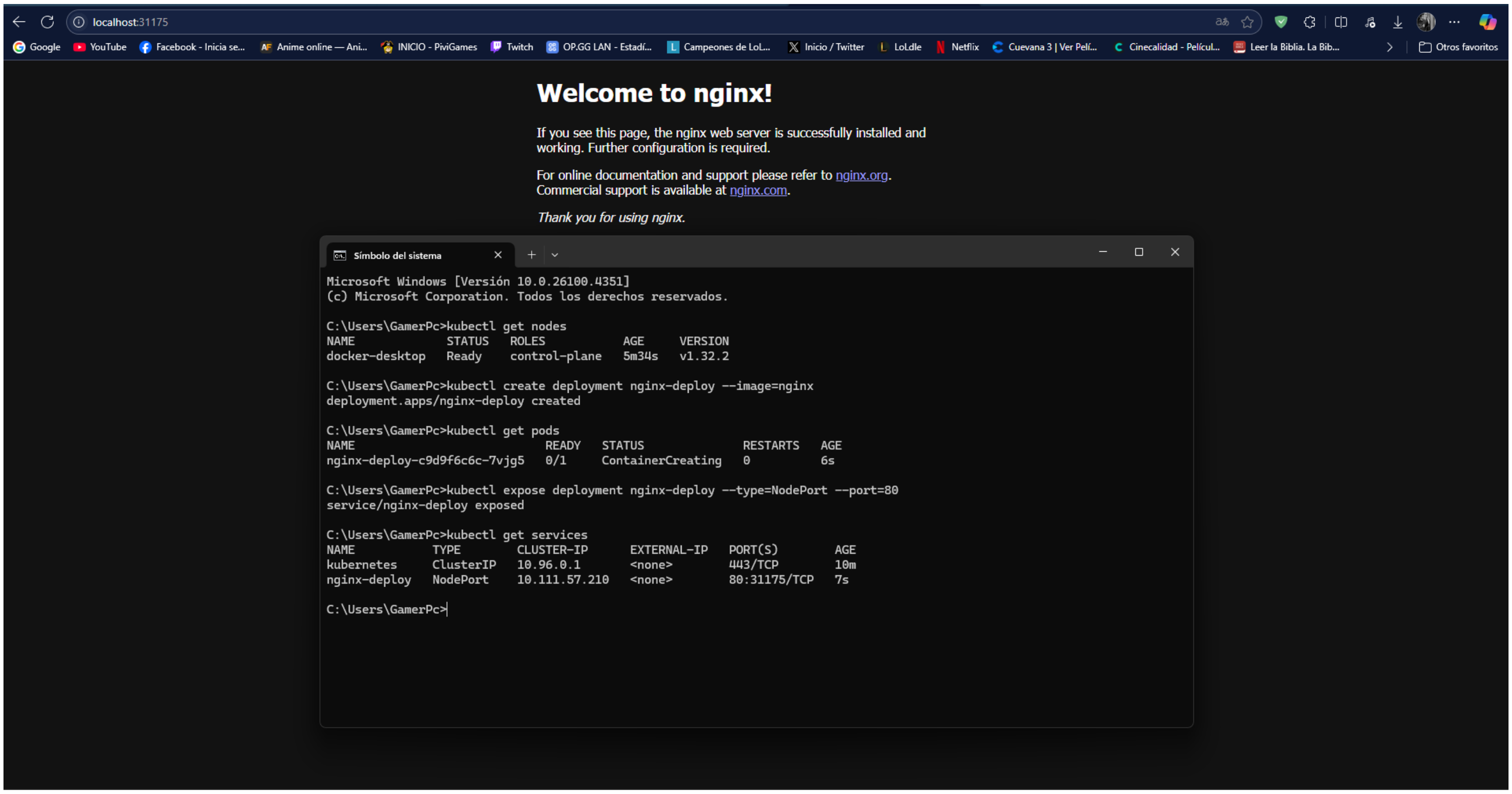
docker-desktop
kubeadm, single-node
Running
Started 5 minutes ago

Cluster settings

Choose cluster provisioning method

Engine running
Kubernetes running RAM 3.86 GB CPU 3.39% Disk: 3.39 GB used (limit 1006.85 GB)
New version available

2.Desplegar la primera aplicación



localhost:31175

Welcome to nginx!

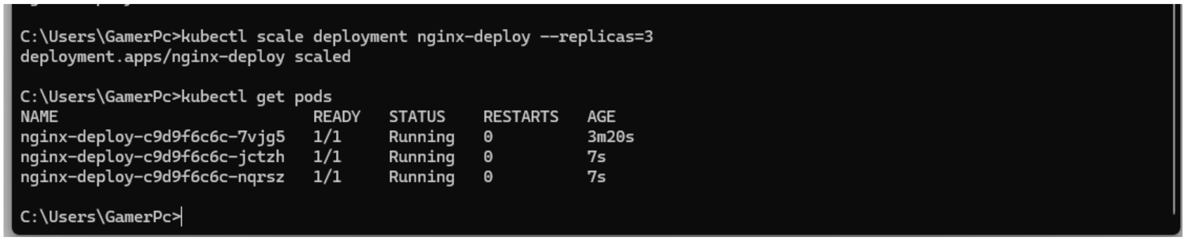
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

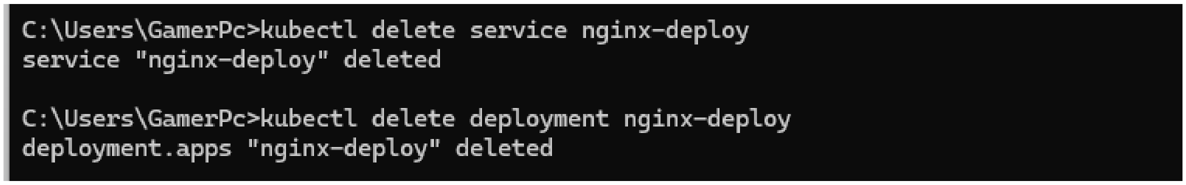
```
Microsoft Windows [Versión 10.0.26100.4351]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\GamerPc>kubectl get nodes
NAME             STATUS   ROLES           AGE     VERSION
docker-desktop   Ready    control-plane   5m34s   v1.32.2

C:\Users\GamerPc>kubectl create deployment nginx-deploy --image=nginx
deployment.apps/nginx-deploy created

C:\Users\GamerPc>kubectl get pods
NAME                            READY   STATUS              RESTARTS   AGE
nginx-deploy-c9d9f6c6c-7vjg5    0/1     ContainerCreating   0          6s

C:\Users\GamerPc>kubectl expose deployment nginx-deploy --type=NodePort --port=80
service/nginx-deploy exposed

C:\Users\GamerPc>kubectl get services
NAME           TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)        AGE
kubernetes     ClusterIP   10.96.0.1       <none>        443/TCP        10m
nginx-deploy   NodePort    10.111.57.210   <none>        80:31175/TCP   7s

C:\Users\GamerPc>
```

3.Escalamos la aplicación



```
C:\Users\GamerPc>kubectl scale deployment nginx-deploy --replicas=3
deployment.apps/nginx-deploy scaled

C:\Users\GamerPc>kubectl get pods
NAME                          READY   STATUS    RESTARTS   AGE
nginx-deploy-c9d9f6c6c-7vjg5   1/1     Running   0          3m20s
nginx-deploy-c9d9f6c6c-jctzh   1/1     Running   0          7s
nginx-deploy-c9d9f6c6c-nqrsz   1/1     Running   0          7s

C:\Users\GamerPc>
```

4.Elimanos todo.



```
C:\Users\GamerPc>kubectl delete service nginx-deploy
service "nginx-deploy" deleted

C:\Users\GamerPc>kubectl delete deployment nginx-deploy
deployment.apps "nginx-deploy" deleted
```