

1. Microservicio corriendo con uso de virtual threads en el thread pool de Tomcat activo.

```
at 05:20:34 PM
> minikube start
minikube v1.36.0 en EndeavourOS
Using the docker driver based on existing profile
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.47 ...
Updating the running docker "minikube" container ...
Preparando Kubernetes v1.33.1 en Docker 28.1.1...
Verifying Kubernetes components...
  ■ Using image gcr.io/k8s-minikube/storage-provisioner:v5
Complementos habilitados: storage-provisioner, default-storageclass
💡 kubectl not found. If you need it, try: 'minikube kubectl -- get pods -A'
🏁 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
```

```
at 05:25:03 PM
> kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION
minikube	Ready	control-plane	5m25s	v1.33.1

2. Desplegar la aplicación

```
at 05:23:03 PM
> kubectl get nodes

NAME        STATUS    ROLES    AGE     VERSION
minikube    Ready    control-plane  5m25s   v1.33.1

at 05:25:04 PM
> kubectl create deployment nginx-deploy --image=nginx
deployment.apps/nginx-deploy created

at 05:28:02 PM
> kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deploy-c9d9f6c6c-dh9gd        0/1     ContainerCreating  0          5s

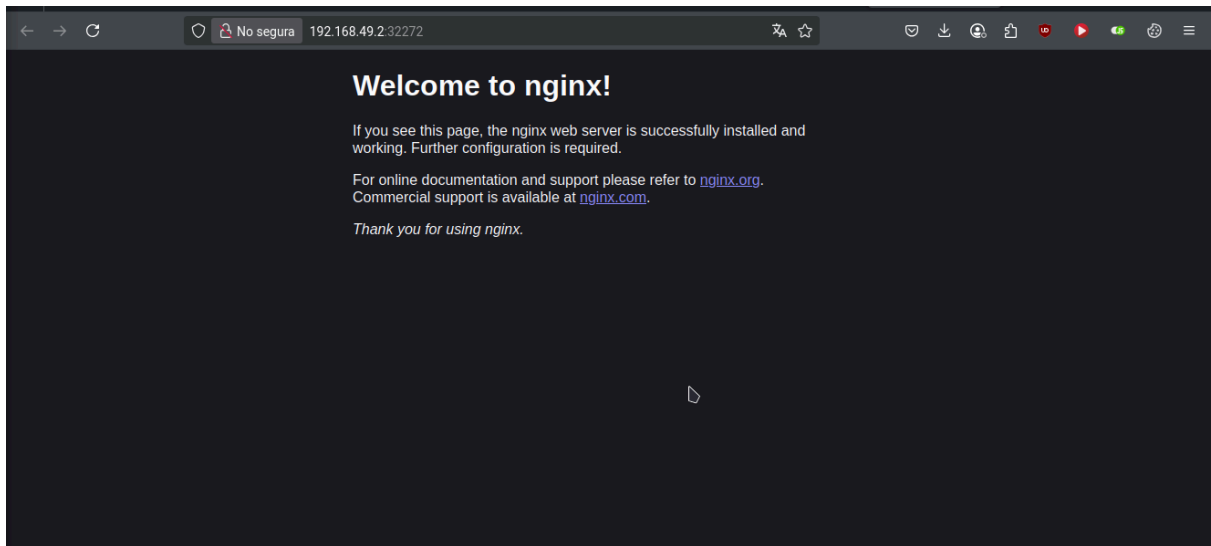
at 05:28:07 PM
> kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deploy-c9d9f6c6c-dh9gd        0/1     ContainerCreating  0         24s

at 05:28:26 PM
> kubectl expose deployment nginx-deploy --type=NodePort --port=80
service/nginx-deploy exposed

at 05:28:50 PM
> kubectl get services
NAME            TYPE        CLUSTER-IP    EXTERNAL-IP  PORT(S)          AGE
kubernetes     ClusterIP   10.96.0.1     <none>       443/TCP          9m45s
nginx-deploy    NodePort    10.110.222.137 <none>       80:32272/TCP     43s
```

3. Accedo a nginx

```
at 17:31:26
> minikube service nginx-deploy
|-----|-----|-----|-----|
| NAMESPACE | NAME      | TARGET PORT | URL                               |
|-----|-----|-----|-----|
| default   | nginx-deploy | 80          | http://192.168.49.2:32272      |
|-----|-----|-----|-----|
🌐 Opening service default/nginx-deploy in default browser...
Gtk-Message: 17:31:26.241: Failed to load module "colorreload-gtk-module"
Gtk-Message: 17:31:26.243: Failed to load module "window-decorations-gtk-module"
```



4. Escalar la aplicación

```
kubectl scale deployment nginx-deploy --replicas=3
deployment.apps/nginx-deploy scaled

kubectl get pods
NAME                                READY   STATUS              RESTARTS   AGE
nginx-deploy-c9d9f6c6c-dh9gd        1/1     Running             0           6m2s
nginx-deploy-c9d9f6c6c-l9x2d        0/1     ContainerCreating   0           7s
nginx-deploy-c9d9f6c6c-nplwt        0/1     ContainerCreating   0           7s

kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deploy-c9d9f6c6c-dh9gd        1/1     Running   0           6m6s
nginx-deploy-c9d9f6c6c-l9x2d        1/1     Running   0           11s
nginx-deploy-c9d9f6c6c-nplwt        1/1     Running   0           11s
```

5. Eliminar todo

```
[~] > kubectl delete service nginx-deploy
service "nginx-deploy" deleted

[~] > kubectl delete deployment nginx-deploy
deployment.apps "nginx-deploy" deleted

[~] > minikube stop
👉 Stopping node "minikube" ...
🔴 Apagando "minikube" mediante SSH...
^[🔴 1 node stopped.

[~] >
```