<u>Assignment: Building a Multi-Service Application with In-Place Upgrades</u> on Kubernetes

1-kubectl get pods showing running pods before and after the upgrade.

```
MINGW64:/c/Users/USUARIO/kubernetes_project
                                                                                        ×
 nano frontend-service.yaml
USUARIO@LENOVO MINGW64 ~/kubernetes_project

$ kubectl apply -f frontend-deployment.yaml

kubectl apply -f frontend-service.yaml

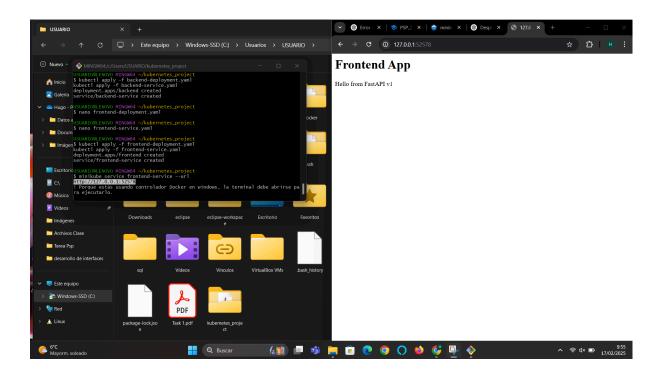
deployment.apps/frontend created
service/frontend-service created
 SUARIO@LENOVO MINGW64 ~/kubernetes_project
 minikube service frontend-service --url
 ttp://127.0.0.1:52578
 Porque estás usando controlador Docker en windows, la terminal debe abrirse pa
 a ejecutarlo.
 SUARIO@LENOVO MINGW64 ~/kubernetes_project
 kubectl get pods
NAME
                                  READY
                                            STATUS
                                                        RESTARTS
                                                                      AGE
backend-6d78b47fdc-24bk2
                                  1/1
                                                                      2m9s
                                            Running
                                                        0
backend-6d78b47fdc-dvxhh
                                           Running
                                  1/1
                                                        0
                                                                      2m9s
frontend-76f648b97d-vm4dl
                                  1/1
                                            Running
                                                                      74s
 SUARIO@LENOVO MINGW64 ~/kubernetes_project
```

```
MINGW64:/c/Users/USUARIO/kubernetes project
                                                                                        X
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.

Priting objects: 100% (3/3), 720 bytes | 720.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100\% (1/1), completed with 1 local object.
o https://github.com/Hugogare/kubernetes_project.git
   e5fbd7e..e72c36c main -> main
 SUARIO@LENOVO MINGW64 ~/kubernetes_project (main)
docker get pods
docker: 'get' is not a docker command.
Gee 'docker --help'
 SUARIO@LENOVO MINGW64 ~/kubernetes_project (main)
 kubectl get pods
                                  READY
AME
                                            STATUS
                                                        RESTARTS
                                                                      AGE
                                 1/1
1/1
1/1
ackend-6b645cbf88-kz7f5
                                            Running
                                                        0
                                                                      39m
ackend-6b645cbf88-wcc4d
                                            Running
                                                        0
                                                                      39m
 rontend-76f648b97d-vm4dl
                                                                      45m
                                            Running
                                                        0
 SUARIO@LENOVO MINGW64 ~/kubernetes_project (main)
```

2-The frontend displaying data from the upgraded API.



3-Output of kubectl rollout status deployment/backend-deployment

```
NINGW64:/c/Users/USUARIO/kubernetes_project/backend
                                                                             ×
=> CACHED [2/5] WORKDIR /app
=> CACHED [3/5] COPY requirements.txt .
=> CACHED [4/5] RUN pip install -r requirements.txt
                                                                                0.0s
                                                                                0.0s
                                                                                0.0s
=> [5/5] COPY .
                                                                                0.1s
=> exporting to image
                                                                                0.1s
=> => exporting layers
=> => writing image sha256:7ca46028216cdc7236a924fee8cc8168e41a56e550b9d 0.0s
 => => naming to docker.io/library/backend:v2
                                                                                0.0s
JSUARIO@LENOVO MINGW64 ~/kubernetes_project/backend
kubectl set image deployment/backend backend=backend:v2
deployment.apps/backend image updated
kubectl get pods
deployment "backend" successfully rolled out
                             READY
                                      STATUS
                                                 RESTARTS
                             1/1
1/1
1/1
                                                             10s
backend-6b645cbf88-kz7f5
                                      Running
                                                 0
                                      Running
backend-6b645cbf88-wcc4d
                                                 0
                                                             8s
                                                             5m56s
rontend-76f648b97d-vm4dl
                                      Running
JSUARIO@LENOVO MINGW64 ~/kubernetes_project/backend
```