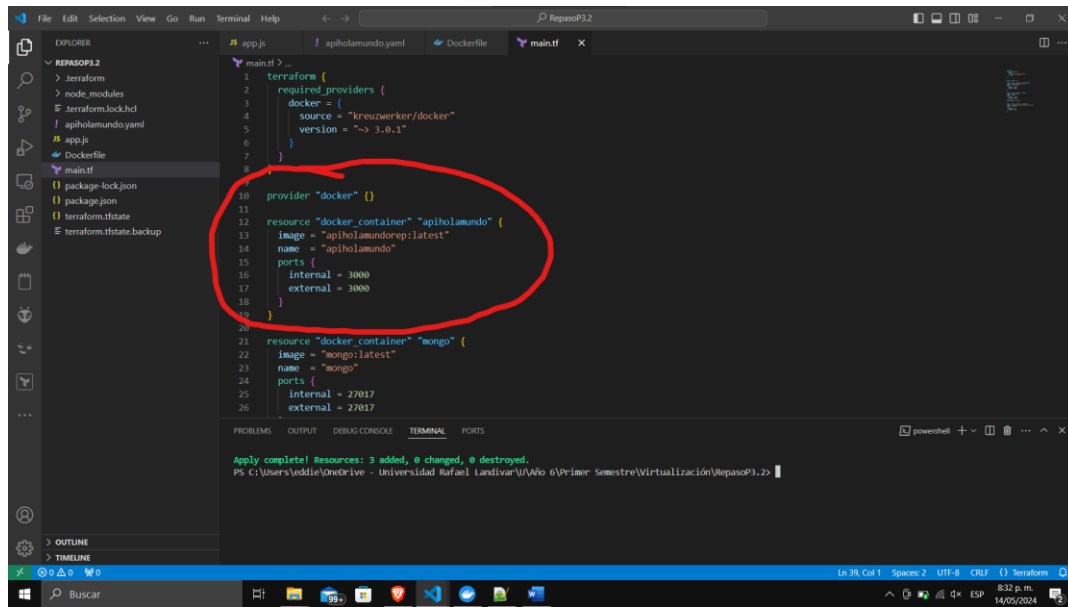


Eddie Alejandro Girón Carranza – 1307419

Parcial 3 – Virtualización

Backend

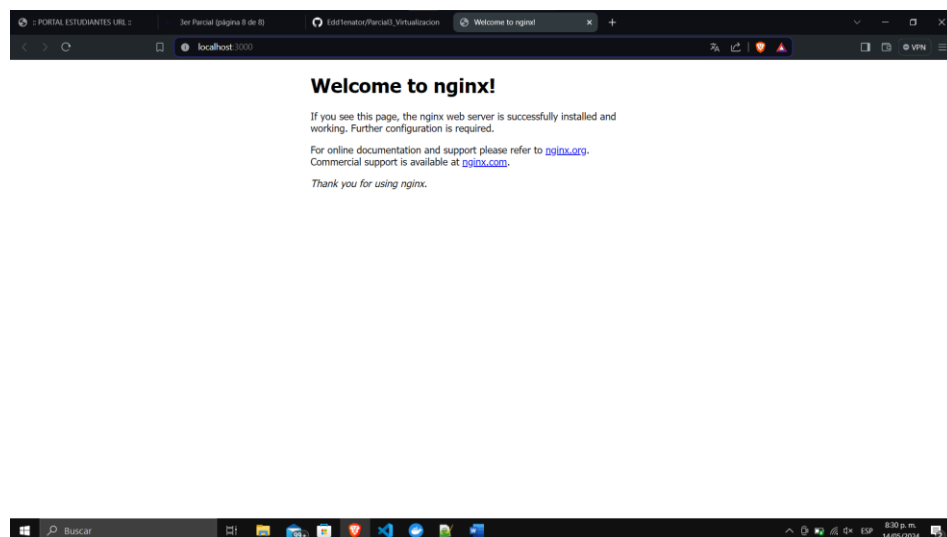


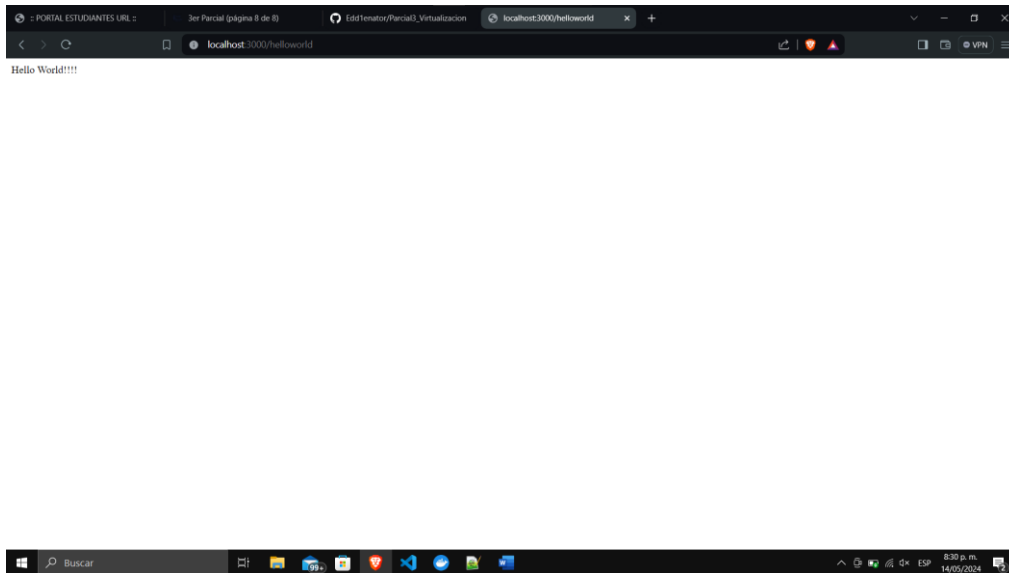
```
1 terraform {
2   required_providers {
3     docker = {
4       source = "kreuzwerker/docker"
5       version = "~> 3.0.1"
6     }
7   }
8 }
9
10 provider "docker" {}
11
12 resource "docker_container" "apiholamundo" {
13   image = "apiholamundo:latest"
14   name = "apiholamundo"
15   ports {
16     internal = 3000
17     external = 3000
18   }
19 }
20
21 resource "docker_container" "mongo" {
22   image = "mongo:latest"
23   name = "mongo"
24   ports {
25     internal = 27017
26     external = 27017
27   }
28 }
```

Apply complete! Resources: 3 added, 0 changed, 0 destroyed.

PS C:\Users\eddie\OneDrive - Universidad Rafael Landívar\U\Wo 6\Primer Semestre\Virtualización\Repos\P3.2>

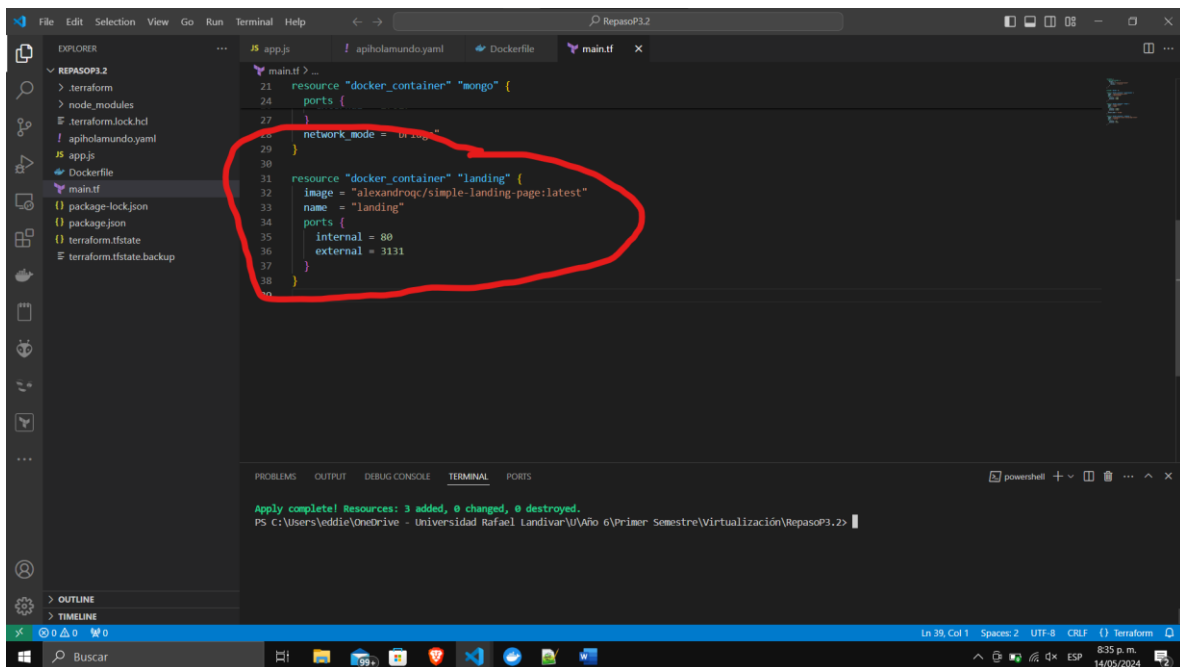
Declaración de imagen de apiholamundo como recurso en archivo de terraform main.tf y asignación de puertos de contenedor



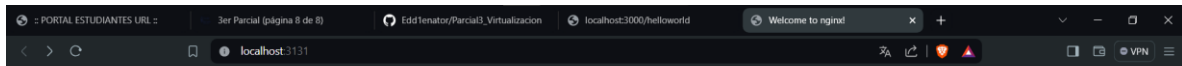


apiholamundo corriendo

Frontend



Declaración de imagen de frontend como recurso en archivo de terraform main.tf y asignación de puertos de contenedor



Welcome to nginx!

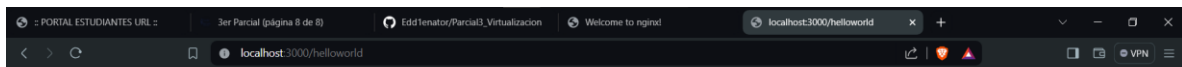
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

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

Thank you for using nginx.



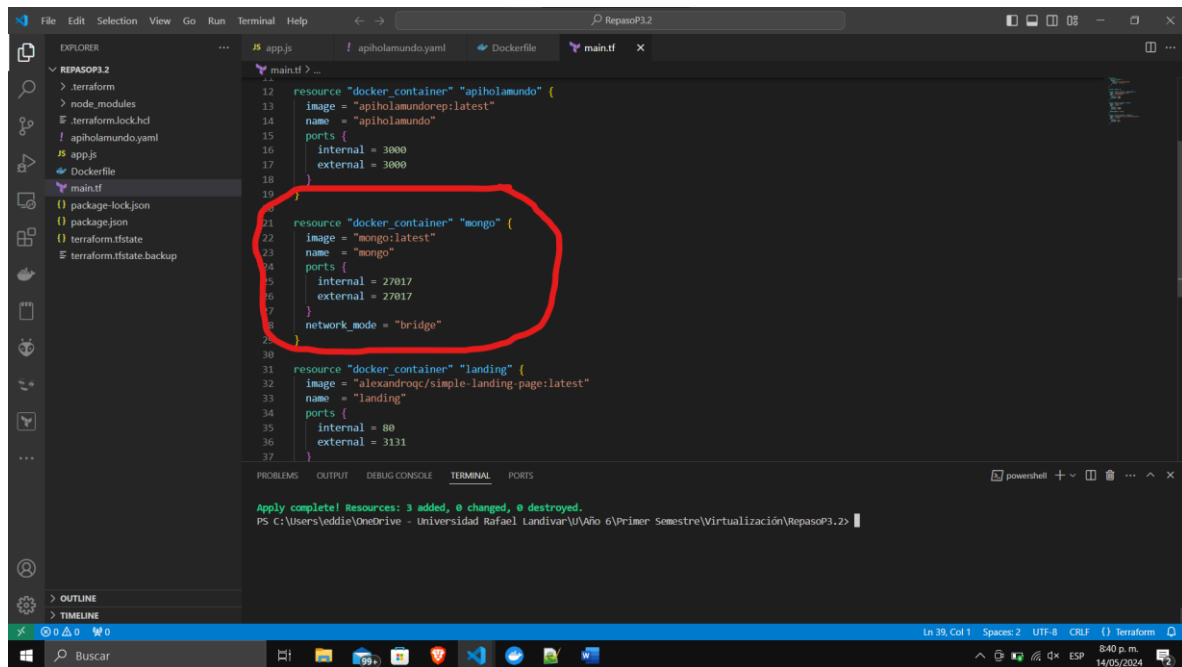
Contenedor frontend corriendo



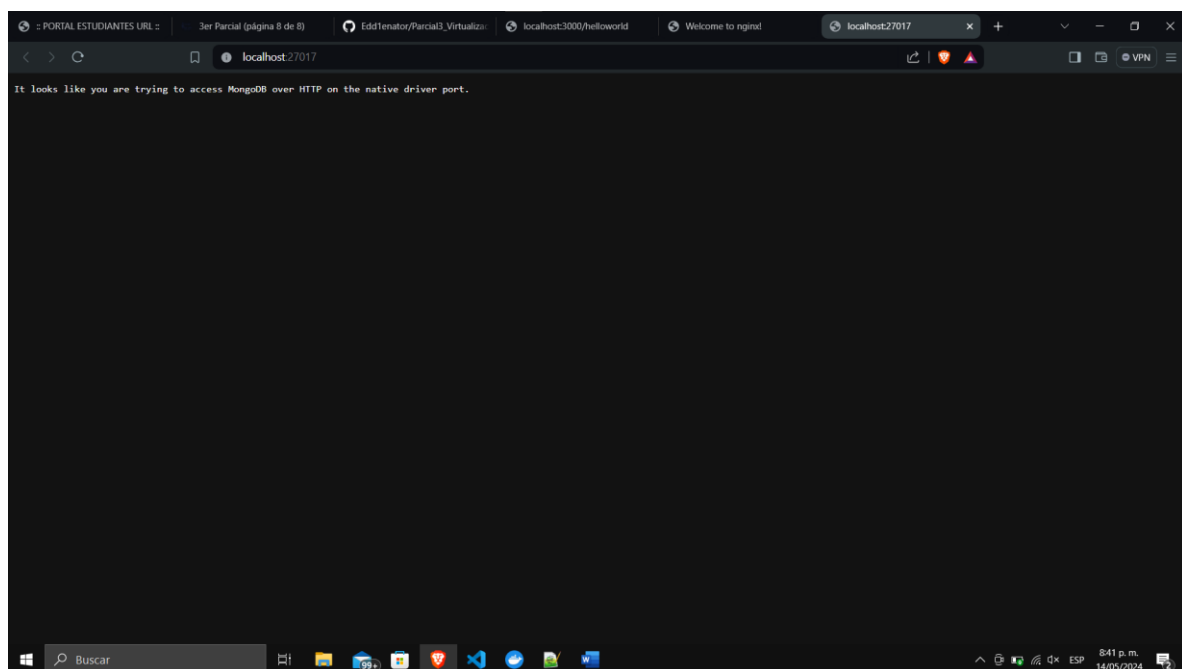
Hello World!!!!



BDD



Declaración de imagen de base de datos no relacional como recurso en archivo de terraform main.tf y asignación de puertos de contenedor



Base de datos no relacional corriendo (MongoDB)

Imágenes y contenedores de Docker corriendo y en uso:

The screenshot shows the Docker Desktop interface with the 'Images' tab selected. The left sidebar contains navigation options: Containers, Images, Volumes, Builds, Dev Environments (BETA), and Docker Scout. The main panel displays a list of images under the 'Local' tab. A search bar and filter icons are at the top. The image list has columns for Name, Tag, Status, Created, Size, and Actions. Four images are circled in red:

Name	Tag	Status	Created	Size
front	latest	Unused	2 minutes ago	137.83 MB
apinohamundorep	latest	In use	5 days ago	1.11 GB
wordpress	latest	Unused	7 days ago	685.22 MB
mongo	latest	In use	18 days ago	794.7 MB
gcr.io/k8s-minikube/kicbase	v0.0.43	In use	26 days ago	1.25 GB
some-mysql	latest	Unused	1 month ago	555.74 MB

The bottom status bar shows 'Engine running', RAM usage (3.82 GB / 5.05 GB in use), CPU usage (0.00%), and a 'Signed in' indicator.

The screenshot shows the Docker Desktop interface with the 'Containers' tab selected. The left sidebar is the same as the first image. The main panel displays container statistics at the top: Container CPU usage (0.43% / 800% (8 CPUs available)) and Container memory usage (130.16MB / 7.51GB). Below is a list of containers with columns for Name, Image, Status, CPU (%), Port(s), Last started, and Actions. Four containers are circled in red:

Name	Image	Status	CPU (%)	Port(s)	Last started
minikube	gcr.io/k8s-minikube/	Exited (255)	0%		5 days ago
some-mysql	mysql:5.7	Exited	0%		5 days ago
landing	alexandroqc/simple	Running	0%	3131:80	17 minutes ago
mongo	mongo:latest	Running	0.43%	27017:27017	17 minutes ago
apihohamund	apihohamundorep:lat	Running	0%	3000:3000	17 minutes ago

The bottom status bar shows 'Engine running', RAM usage (3.80 GB), CPU usage (1.37%), and a 'Signed in' indicator.