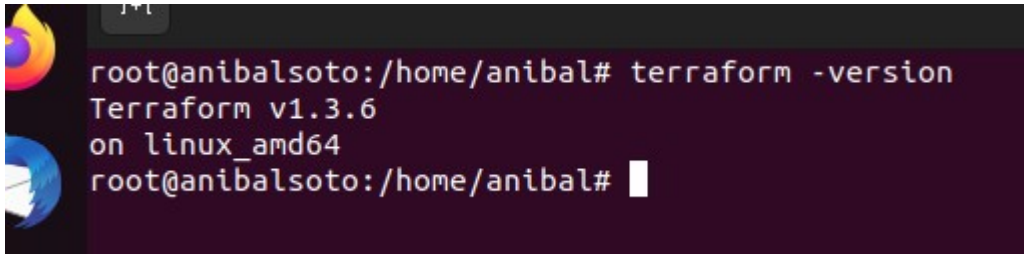


Evidencia de terraform local

A terminal window with a dark purple background and a Firefox logo on the left. The prompt is 'root@anibalsoto:/home/anibal#'. The command 'terraform -version' has been entered, and the output is 'Terraform v1.3.6 on linux_amd64'. The prompt is now 'root@anibalsoto:/home/anibal#' with a white cursor.

```
root@anibalsoto:/home/anibal# terraform -version
Terraform v1.3.6
on linux_amd64
root@anibalsoto:/home/anibal#
```

Comandos basicos para despliegue de terraform

- terraform init (inicializa terraform en el directorio)
- terraform validate (valida la configuracion del archivo tf)
- terraform fmt (formatea los archivos)
- terraform plan (verifica y muestra el plan a realizar en el archivo tf, nos muestra la estructura de lo que se va a construir)
- terraform apply (aplica el plan)
- terraform destroy (elimina los contenedores o la iac en general del plan anterior contenida en el archivo .tf)

Creando despliegue de prueba

```
Docker version 20.10.21, build baeda1f
root@anibalsoto:/home/anibal/Documents/Desarrollo-Software-Agile-main/Sesion-06/proyecto-tf# terraform init

Initializing the backend...

Initializing provider plugins...
- Reusing previous version of kreuzwerker/docker from the dependency lock file
- Installing kreuzwerker/docker v2.23.0...
- Installed kreuzwerker/docker v2.23.0 (self-signed, key ID BD080C4571C6104C)

Partner and community providers are signed by their developers.
If you'd like to know more about provider signing, you can read about it here:
https://www.terraform.io/docs/cli/plugins/signing.html

Terraform has made some changes to the provider dependency selections recorded
in the .terraform.lock.hcl file. Review those changes and commit them to your
version control system if they represent changes you intended to make.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
root@anibalsoto:/home/anibal/Documents/Desarrollo-Software-Agile-main/Sesion-06/proyecto-tf# terraform validate

Warning: Deprecatd attribute

   on main.tf line 25, in resource "docker_container" "microservice":
   25:   image = docker_image.microservice.latest

The attribute "latest" is deprecated. Refer to the provider documentation for details.

Success! The configuration is valid, but there were some validation warnings as shown above.

root@anibalsoto:/home/anibal/Documents/Desarrollo-Software-Agile-main/Sesion-06/proyecto-tf# terraform fmt
main.tf
root@anibalsoto:/home/anibal/Documents/Desarrollo-Software-Agile-main/Sesion-06/proyecto-tf# terraform plan

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

# docker_container.microservice will be created
+ resource "docker_container" "microservice" {
  + attach          = false
  + bridge          = (known after apply)
  + command         = (known after apply)
  + container_logs  = (known after apply)
  + container_read_refresh_timeout_milliseconds = 15000
  + entrypoint      = (known after apply)
  + env             = (known after apply)
```

```
+ retries      = (known after apply)
+ start_period = (known after apply)
+ test         = (known after apply)
+ timeout      = (known after apply)
}

+ labels {
+   label = (known after apply)
+   value = (known after apply)
}

+ ports {
+   external = 5000
+   internal = 5000
+   ip       = "0.0.0.0"
+   protocol = "tcp"
}
}

# docker_image.microservice will be created
+ resource "docker_image" "microservice" {
+   id          = (known after apply)
+   image_id    = (known after apply)
+   latest      = (known after apply)
+   name        = "microservice"
+   output      = (known after apply)
+   repo_digest = (known after apply)

+   build {
+     dockerfile = "Dockerfile"
+     path       = "../microservice/."
+     remove     = true
+     tag        = [
+       + "microservice:latest",
+     ]
+   }
}
```

Plan: 2 to add, 0 to change, 0 to destroy.

Warning: Deprecated attribute

on main.tf line 25, in resource "docker_container" "microservice":
25: image = docker_image.microservice.latest

The attribute "latest" is deprecated. Refer to the provider documentation for details.

(and one more similar warning elsewhere)

Do you want to perform these actions?

Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.

Enter a value:

```
+ latest      = (known after apply)
+ name        = "microservice"
+ output      = (known after apply)
+ repo_digest = (known after apply)

+ build {
  + dockerfile = "Dockerfile"
  + path       = "../microservice/"
  + remove    = true
  + tag       = [
    + "microservice:latest",
  ]
}
}
```

Plan: 2 to add, 0 to change, 0 to destroy.

Warning: Deprecated attribute

on main.tf line 25, in resource "docker_container" "microservice":
25: image = docker_image.microservice.latest

The attribute "latest" is deprecated. Refer to the provider documentation for details.

(and one more similar warning elsewhere)

Do you want to perform these actions?

Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.

Enter a value: yes

docker_image.microservice: Creating...

docker_image.microservice: Still creating... [10s elapsed]

docker_image.microservice: Still creating... [20s elapsed]

docker_image.microservice: Creation complete after 27s [id=sha256:1e08eb5eb70c1e3d6791d2fbb9c80e5d0f160d02098350efad936253e7e6ea5bmicroservice]

docker_container.microservice: Creating...

docker_container.microservice: Creation complete after 0s [id=89786b976e16b34817bff278df64e102ca27735da4daaef83b515311170458b5]

Warning: Deprecated attribute

on main.tf line 25, in resource "docker_container" "microservice":
25: image = docker_image.microservice.latest

The attribute "latest" is deprecated. Refer to the provider documentation for details.

(and one more similar warning elsewhere)

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

root@anibalsoto:/home/anibal/Documents/Desarrollo-Software-Agile-main/Sesion-06/proyecto-tf# docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
89786b976e16	1e08eb5eb70c	"flask run --host=0..."	8 seconds ago	Up 7 seconds	0.0.0.0:5000->5000/tcp	microservice-demo

root@anibalsoto:/home/anibal/Documents/Desarrollo-Software-Agile-main/Sesion-06/proyecto-tf#