Crear una instancia EC2 en AWS con Terraform

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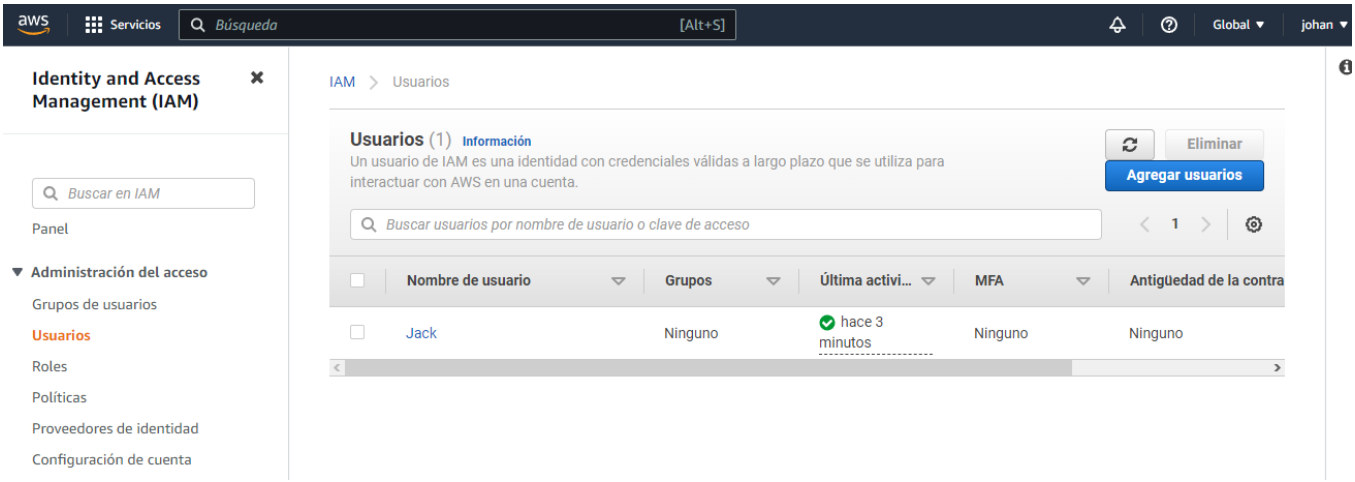
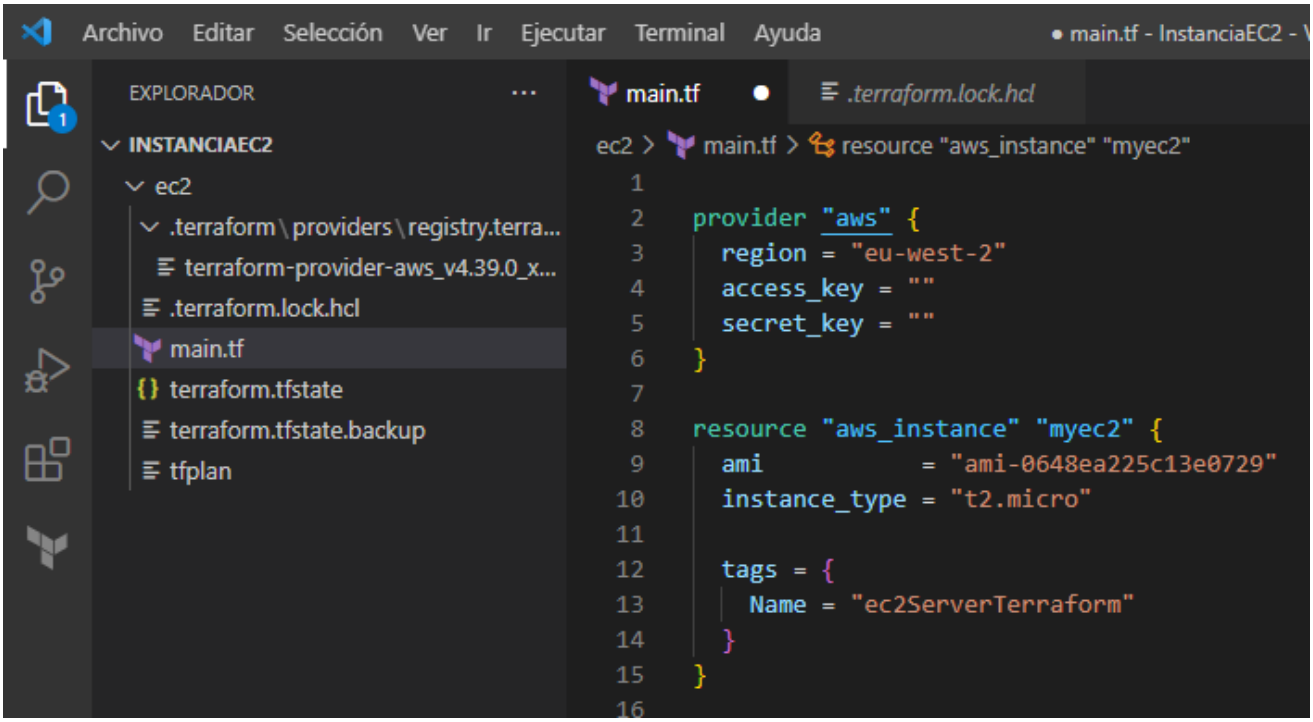
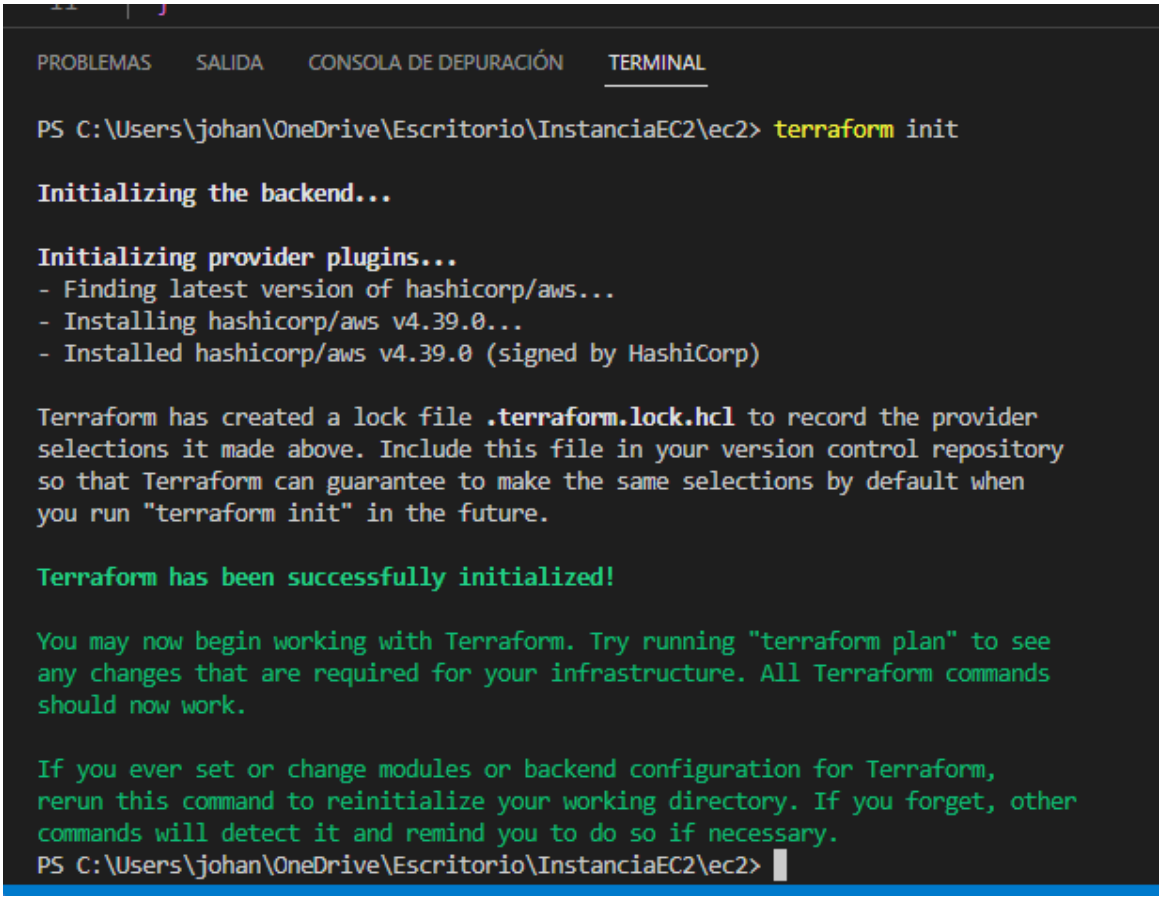
En AWS es importante crear un usuario en Identity and Access Management (IAM) con esto tendremos el access_key y secret_key



Escribimos el siguiente código en Visual Code



Inicializamos el directorio de trabajo que contiene la configuración de Terraform

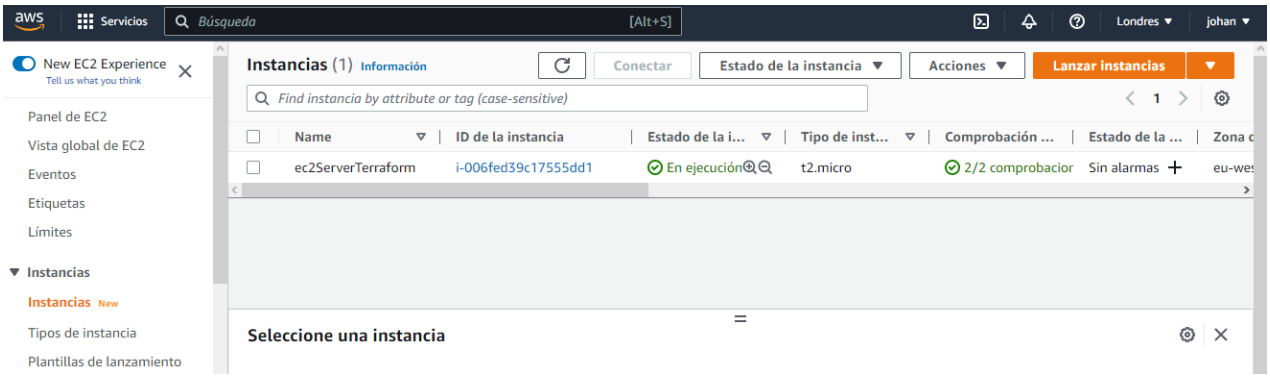


```
PROBLEMAS   SALIDA   CONSOLA DE DEPURACIÓN   TERMINAL

PS C:\Users\johan\OneDrive\Escritorio\InstanciaEC2\ec2> terraform plan -out=tfplan

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:

  # aws_instance.myec2 will be created
  + resource "aws_instance" "myec2" {
      + ami                                  = "ami-0648ea225c13e0729"
      + arn                                  = (known after apply)
      + associate_public_ip_address          = (known after apply)
      + availability_zone                    = (known after apply)
      + cpu_core_count                       = (known after apply)
      + cpu_threads_per_core                 = (known after apply)
      + disable_api_stop                     = (known after apply)
      + disable_api_termination              = (known after apply)
      + ebs_optimized                        = (known after apply)
      + get_password_data                    = false
      + host_id                              = (known after apply)
      + host_resource_group_arn              = (known after apply)
      + id                                   = (known after apply)
      + instance_initiated_shutdown_behavior = (known after apply)
      + instance_state                       = (known after apply)
      + instance_type                        = "t2.micro"
      + ipv6_address_count                   = (known after apply)
      + ipv6_addresses                       = (known after apply)
⚠ 0
```

Por último, aplicamos y creamos la instancia EC2

```
PROBLEMAS   SALIDA   CONSOLA DE DEPURACIÓN   TERMINAL

Plan: 1 to add, 0 to change, 0 to destroy.

Saved the plan to: tfplan

To perform exactly these actions, run the following command to apply:
    terraform apply "tfplan"
PS C:\Users\johan\OneDrive\Escritorio\InstanciaEC2\ec2> terraform apply --auto-approve tfplan
aws_instance.myec2: Creating...
aws_instance.myec2: Still creating... [10s elapsed]
aws_instance.myec2: Still creating... [20s elapsed]
aws_instance.myec2: Creation complete after 23s [id=i-006fed39c17555dd1]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
PS C:\Users\johan\OneDrive\Escritorio\InstanciaEC2\ec2>
```

Instancia creada

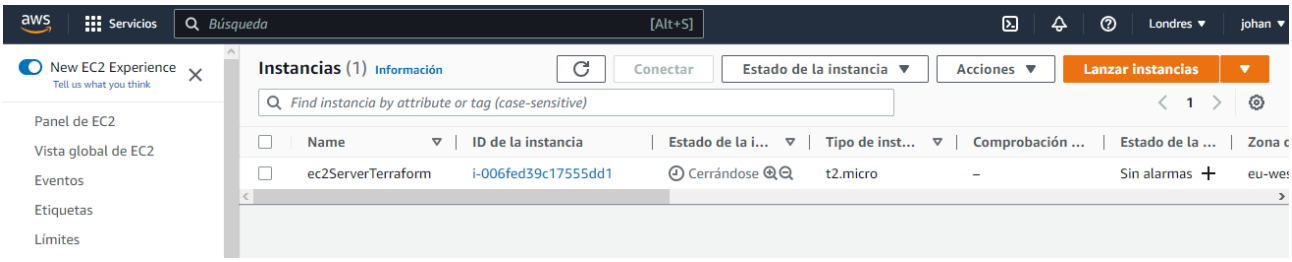


Ahora borraremos la instancia con Terraform

```
PS C:\Users\johan\OneDrive\Escritorio\InstanciaEC2\ec2> terraform destroy
aws_instance.myec2: Refreshing state... [id=i-006fed39c17555dd1]

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

Terraform will perform the following actions:

  # aws_instance.myec2 will be destroyed
  - resource "aws_instance" "myec2" {
      - ami                                  = "ami-0648ea225c13e0729" -> null
      - arn                                  = "arn:aws:ec2:eu-west-2:476786095040:instance/i-006fed39c17555dd1" -> null
      - associate_public_ip_address          = true -> null
      - availability_zone                    = "eu-west-2a" -> null
      - cpu_core_count                       = 1 -> null
      - cpu_threads_per_core                 = 1 -> null
      - disable_api_stop                     = false -> null
      - disable_api_termination              = false -> null
      - ebs_optimized                        = false -> null
      - get_password_data                    = false -> null
      - hibernation                          = false -> null
```

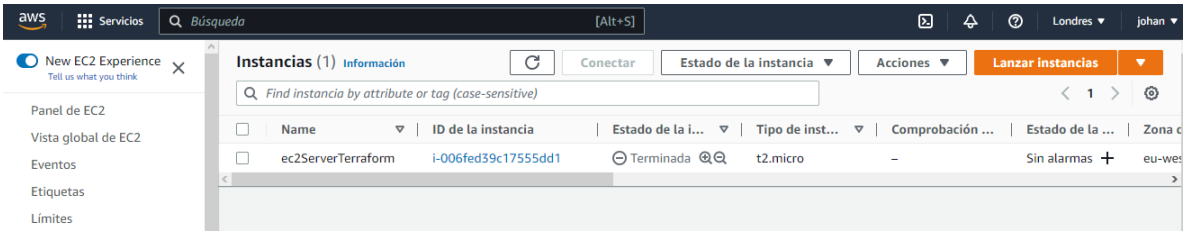
Lín. 13, Col. 31 (9 seleccionada) Espacios: 2 UTF-8 CRLF Terraform

Como podemos observar la instancia se detuvo



Finalmente se eliminó la instancia

```
Do you really want to destroy all resources?
  Terraform will destroy all your managed infrastructure, as shown above.
  There is no undo. Only 'yes' will be accepted to confirm.

  Enter a value: yes

aws_instance.myec2: Destroying... [id=i-006fed39c17555dd1]
aws_instance.myec2: Still destroying... [id=i-006fed39c17555dd1, 10s elapsed]
aws_instance.myec2: Still destroying... [id=i-006fed39c17555dd1, 20s elapsed]
aws_instance.myec2: Still destroying... [id=i-006fed39c17555dd1, 30s elapsed]
aws_instance.myec2: Destruction complete after 31s

Destroy complete! Resources: 1 destroyed.
PS C:\Users\johan\OneDrive\Escritorio\InstanciaEC2\ec2>
```



Bibliografía

https://www.youtube.com/watch?v=8C7LD4Fnh90&t=142s

https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-quickstart.html#cli-configure-quickstart-creds