Crear grupo de recursos

miércoles, 7 de febrero de 2024 13:30

-Conectarse con el tenant de azure: **entramos en la terminal e insertamos az login**

-Especificar a que tenant se va a conectar: **az login --tenant 85e3c98c-7972-48f5-8587-eb00ce5791e9 (nuestro codigo de tenant):**

```
The following tenants require Multi-Factor Authentication (MFA). Use 'az login --tenant TENANT_ID' to explicitly login t
o a tenant.
85e3c98c-7972-48f5-8587-eb00ce5791e9 'Agiglesias'
No subscriptions found for adrian.gonzaleziglesias@tajamar365.com.
```

Para editar los ficheros para trabajar con azure utilizamos el visual estudio:

-Seleccionamos open folder, y la carpeta en la que vamos a trabajar (en este caso proyecto 1).

-Después seleccionamos new file dentro de la carpeta proyecto 1.

providers.tf

```
providers.tf > provider "azurerm"
1  provider "azurerm" {
2      features{}
3  }
```

-Declaramos las variables del grupo de recursos:

variables.tf

```
variables.tf > variable "resgroup"
1  variable "resgroup" {
2      type = string
3      description = "Nombre del grupo de recursos"
4      default = "rg1terraform"
5  }
6
7  variable "location" {
8      type = string
9      description = "Zona geografica"
10     default = "eastus2"
11 }
```

-Creamos un fichero para indicar que se va a crear un grupo de recursos utilizando las variables, anteriormente declaradas…resgroup y location:

main.tf

```
main.tf > resource "azurerm_resource_group" "CrearRG"
1  resource "azurerm_resource_group" "CrearRG" {
2    name = var.resgroup
3    location = var.location
4  }
```

Accedemos a la carpeta Proyecto 1, la cual contiene los archivos .tf que vamos a ejecutar:

```
PS C:\Users\ADM> cd .\Desktop\Terraform\
PS C:\Users\ADM\Desktop\Terraform> ls

    Directory: C:\Users\ADM\Desktop\Terraform

Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d----           2/7/2024  2:26 PM                Proyecto 1
d----           2/8/2024  9:04 AM                Terraform

PS C:\Users\ADM\Desktop\Terraform> cd '.\Proyecto 1\'
PS C:\Users\ADM\Desktop\Terraform\Proyecto 1>
```

Inicializar terraform en terminal y validar: terraform init and terraform validate

```
PS C:\Users\ADM\Desktop\Terraform\Proyecto 1> terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/azurerm...
- Installing hashicorp/azurerm v3.90.0...
- Installed hashicorp/azurerm v3.90.0 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

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.
PS C:\Users\ADM\Desktop\Terraform\Proyecto 1> terraform validate
Success! The configuration is valid.

PS C:\Users\ADM\Desktop\Terraform\Proyecto 1>
```

Ejecutar el comando terraform plan para ejecutar los files .tf:

```
PS C:\Users\ADM\Desktop\Terraform\Proyecto 1> 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:

  # azurerm_resource_group.CrearRG will be created
  + resource "azurerm_resource_group" "CrearRG" {
      + id       = (known after apply)
      + location = "eastus2"
      + name     = "rg1terraform"
    }

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

Aplicar con el comando terraform apply:

```
PS C:\Users\ADM\Desktop\Terraform\Proyecto 1> terraform apply

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:

  # azurerm_resource_group.CrearRG will be created
  + resource "azurerm_resource_group" "CrearRG" {
      + id       = (known after apply)
      + location = "eastus2"
      + name     = "rg1terraform"
    }

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

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

azurerm_resource_group.CrearRG: Creating...
azurerm_resource_group.CrearRG: Creation complete after 3s [id=/subscriptions/c4c939b3-3e
00-4a5c-9f20-059ea29d9625/resourceGroups/rg1terraform]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
PS C:\Users\ADM\Desktop\Terraform\Proyecto 1>
```