TERRAFORM

devops, info

- terraform AWS
- terraform azure

documentación

- Terraform cli
- terraform variables
- resources
- Terraform state
- terraform data source
- terraform modules

PoC

- Terraform workspace

related

- Learning Terraform on Microsoft Azure devops, cursos, terraform, azure
- Terraform Up & Running devops, terraform, libros, tech

enlaces documentación

- 0.12: https://www.terraform.io/docs/configuration/index.html
- 0.11: https://www.terraform.io/docs/configuration-0-11/interpolation.html: interpolación (referenciar variables, atributos de recursos, llamar funciones)

de interés

output

- volcar información a fichero:

```
resource "local_file" "foo" {
    content  = "${tls_private_key.vm_adwriter.private_key_pem}"
    filename = "${path.cwd}/vm_adwriter.key"
}
```

- desencriptar password windows:

```
output "ec2_password" {
  value = "${rsadecrypt(aws_instance.vm_adwriter.password_data,
file("${path.cwd}/vm_adwriter.key"))}"
}
```

mapas

- usando **var.aws_region** como índice del mapa para seleccionar la imagen adecuada en función de la región

terraform.tfvars

```
aws_region = "eu-west-3" # París
```

main.tf

```
variable "aws_region" {
  type = "string"
}

variable "amis-aws-windows2016base" {
  # Windows_Server-2016-English-Full-Base-2019.02.13
  type = "map"

  default = {
    us-east-1 = "ami-0bf148826ef491d16" # Virigina
    eu-west-3 = "ami-0e3f0a08a6950f3e2" # París
  }
}
```

```
resource "aws_instance" "bastion_ad" {
  ami             = "${lookup(var.amis-aws-windows2016base, var.aws_region)}"
  instance_type   = "t2.micro"
  ...
}
```

dynamic

```
variable "virtual_network_rule_ids" {
  type = list(map(string))
  default = [
    { id = "x.x.x.x" },{ id = "y.y.y.y" }
  ]
}

}
resource "..." {

  dynamic "virtual_network_rule" {
    for_each = var.virtual_network_rule_ids

    content {
      id = virtual_network_rule.value["id"] # etiqueta dynamic + value + key
    }
  }
}
```

casos de uso

- casos de uso

ejemplos

- POC estructura AD
- terraform win-instance

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