

Usando Terraform com a Oracle Cloud



Quem sou eu?

- Graduado em Gestão de Tecnologia da informação pela Cambury
- MBA em Governança de Tecnologia da informação pelo IPOG
- Oracle Cloud Certified Architect
- Certificado OCP Oracle 11g e Oracle 12c.
- Atualmente trabalhando com banco de dados Oracle e soluções em nuvem na empresa 3DB.





Infraestructura tradicional



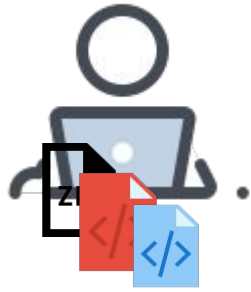
Cat 5e



Cat 6



IAC



ANSIBLE

CHEF™



Public Cloud Providers

Microsoft Azure

IBM Cloud

Google Cloud Platform

amazon web services



Terraform

| | |
|----------------------------|--|
| Original author(s) | Mitchell Hashimoto et al. |
| <u>Developer(s)</u> | HashiCorp |
| Initial release | July 28, 2014; 3 years ago |
| Stable release | 0.11.7 / April 10, 2018; 3 months ago ^[1] |
| Repository | https://github.com/hashicorp/terraform  |
| Written in | Go |
| Operating system | Linux, FreeBSD, macOS, OpenBSD, Solaris, and Microsoft Windows |
| Available in | English |
| Type | Infrastructure as Code |
| License | Mozilla Public License v2.0 ^[2] |
| Website | www.terraform.io  |



Terraform



game



poc



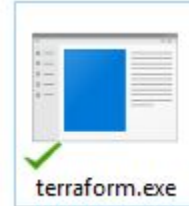
working



chave.txt



Checklist.gsheet



terraform.exe



HashiCorp Configuration Language (HCL)

```
# An AMI
variable "ami" {
  description = "the AMI to use"
}

/* A multi
   line comment. */
resource "aws_instance" "web" {
  ami           = "${var.ami}"
  count         = 2
  source_dest_check = false

  connection {
    user = "root"
  }
}
```



Estrutura de um projeto

```
C: .
+---game
|   +---chave
|   |   \---.terraform
|   |   |   \---plugins
|   |   |   |   \---windows_amd64
|   +---db
|   |   +---dev
|   |   |   \---prod
|   +---iaas
|   |   +---.terraform
|   |   |   \---plugins
|   |   |   |   \---windows_amd64
|   |   +---ad
|   |   |   \---ts
|   +---network
|   |   \---.terraform
|   |   |   +---modules
|   |   |   |   +---1c84ef247f7d3cea1f0d05b9e8725d33
|   |   |   |   +---2ef489ce101d253978bb7eae2b68c04a
|   |   |   |   +---6fac760102d62d72c9cd86acab3c891d
|   |   |   |   +---76457497e243b0aafc4dddabc596440f
|   |   |   |   +---chave
|   |   |   |   |   \---.terraform
|   |   |   |   |   |   \---plugins
|   |   |   |   |   |   |   \---windows_amd64
|   |   |   |   +---db
|   |   |   |   |   +---dev
|   |   |   |   |   |   \---prod
|   |   |   |   +---iaas
|   |   |   |   |   +---.terraform
|   |   |   |   |   |   \---plugins
```




.tf

```
net.tf x Untitled-2 Untitled-1
1 resource "opc_compute_ip_network" "ip_network" {
2     count          = "${ length( var.nome_ip_network)}"
3     name           = "${ element( var.nome_ip_network, count.index)}"
4     ip_address_prefix = "${ element( var.faixas_ip_network, count.index)}"
5     public_napt_enabled = false
6     description    = "${ element( var.descricao_ip_network, count.index)}"
7 }
8
9 #VnicSetApp
10 #https://www.terraform.io/docs/providers/opc/r/opc\_compute\_vnic\_set.html
11 resource "opc_compute_vnic_set" "vnicset" {
12     count          = "${ length( var.nome_vnicset)}"
13     name           = "${ element( var.nome_vnicset, count.index)}"
14     description    = "${ element( var.descricao_ip_vnicset, count.index)}"
15     applied_acls  = ["${element( var.nome_vnicset, count.index)}"]
16     tags          = ["vnicset", "${element( var.nome_vnicset, count.index)}"]
17 }
18
```



.tfstate

```
"version": 3,  
"terraform_version": "0.11.7",  
"serial": 20,  
"lineage": "5446a6a1-789f-e2e6-687b-28d3fe2eb918",  
"modules": [  
  {  
    "path": [  
      "root"  
    ],  
    "outputs": {},  
    "resources": {  
      "opc_compute_ip_network.ip_network.0": {  
        "type": "opc_compute_ip_network",  
        "depends_on": [],  
        "primary": {  
          "id": "APP",  
          "attributes": {  
            "description": "Faixa de IP para APP",  
            "id": "APP",  
            "ip_address_prefix": "10.62.50.0/24",  
            "name": "APP",  
            "public_napt_enabled": "false",  
            "tags.#": "0",  
            "uri": "http://compute.brcom-central-1.oraclecloud.com:"
```



Resources opc

- › [opc_compute_acl](#)
- › [opc_compute_image_list](#)
- › [opc_compute_image_list_entry](#)
- › [opc_compute_instance](#)
- › [opc_compute_ip_address_association](#)
- › [opc_compute_ip_address_prefix_set](#)
- › [opc_compute_ip_address_reservation](#)
- › [opc_compute_ip_association](#)
- › [opc_compute_ip_network](#)
- › [opc_compute_ip_network_exchange](#)
- › [opc_compute_ip_reservation](#)
- › [opc_compute_machine_image](#)
- › [opc_compute_orchestrated_instance](#)
- › [opc_compute_route](#)
- › [opc_compute_sec_rule](#)
- › [opc_compute_security_application](#)
- › [opc_compute_security_association](#)
- › [opc_compute_security_ip_list](#)
- › [opc_compute_security_list](#)
- › [opc_compute_security_protocol](#)



Tenha o caminho em mente





Links

<https://github.com/terraform-providers/terraform-provider-opc>

<https://github.com/oracle/terraform-examples>

<https://cloud.oracle.com>



Contato

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