

# Terraform, conditionals, state and VM

## azure public ip

- public IP = external access to resources
- SND
- Estáticas/Dinámicas
- Acceso a recursos

```
resource "azurerm_network_interface" "web_server_nic" {
  name            = "${var.web_server_name}-nic"
  location        = "${var.web_server_location}"
  resource_group_name = "${azurerm_resource_group.web_server_rg.name}"

  ip_configuration {
    name                = "${var.web_server_name}-ip"
    subnet_id           = "${azurerm_subnet.web_server_subnet.id}"
    private_ip_address_allocation = "dynamic"
    public_ip_address_id = "${azurerm_public_ip.web_server_public_ip.id}"
  }
}

resource "azurerm_public_ip" "web_server_public_ip" {
  name                = "${var.web_server_name}-public-ip"
  location            = "${var.web_server_location}"
  resource_group_name = "${azurerm_resource_group.web_server_rg.name}"
  public_ip_address_allocation = "dynamic"
}
```

## conditionals

```
"web_server_location"    = "westus2"
"web_server_rg"          = "web-rg"
"resource_prefix"        = "web-server"
"web_server_address_space" = "1.0.0.0/22"
"web_server_address_prefix" = "1.0.1.0/24"
"web_server_name"        = "web-01"
"environment"            = "production"
```

```
variable "environment" {}

resource "azurerm_public_ip" "web_server_public_ip" {
  name                = "${var.web_server_name}-public-ip"
  location            = "${var.web_server_location}"
  resource_group_name = "${azurerm_resource_group.web_server_rg.name}"
  public_ip_address_allocation = "${var.environment == "production" ? "static" :
"dynamic" }"
```

```
}
```

## azure Network Security Group

- traffic control
  - like firewall
- default rules
- own rules
- scope (network, subnets, resources)

```
resource "azurerm_network_interface" "web_server_nic" {
  name                = "${var.web_server_name}-nic"
  location            = "${var.web_server_location}"
  resource_group_name = "${azurerm_resource_group.web_server_rg.name}"
  network_security_group_id = "${azurerm_network_security_group.web_server_nsg.id}"

  ip_configuration {
    name                = "${var.web_server_name}-ip"
    subnet_id          = "${azurerm_subnet.web_server_subnet.id}"
    private_ip_address_allocation = "dynamic"
    public_ip_address_id = "${azurerm_public_ip.web_server_public_ip.id}"
  }
}

resource "azurerm_network_security_rule" "web_server_nsg_rule_rdp" {
  name                = "RDP Inbound"
  priority            = 100
  direction           = "Inbound"
  access              = "Allow"
  protocol            = "TCP"
  source_port_range   = "*"
  destination_port_range = "3389"
  source_address_prefix = "*"
  destination_address_prefix = "*"
  resource_group_name = "${azurerm_resource_group.web_server_rg.name}"
  network_security_group_name = "${azurerm_network_security_group.web_server_nsg.name}"
}
```

## azure Terraform state

- track and map deployed resources
- **terraform.tfstate**, **terraform.tfstate.backup**
- metadata
- stored locally o remotely (to be shared, more security)
- sensitive data!
- don't edit this file, IMPORT
- [Azure Resource Explorer](#)

## azure Market Place Images

- como obtener datos de las VM
  - desde el template, en un RG en el que ya tenemos desplegada una máquina
  - `az vm image list-publishers -l <LOCATION> -o table`
  - `az vm image list-offers -l <LOCATION> -p MicrosoftWindowsServer -o table`
    - **MicrosoftWindowsServer** lo hemos sacado del comando anterior
  - `"az vm image list-skus -l <LOCATION> -p MicrosoftWindowsServer -f WindowsServer -o Table`
    - **WindowsServer** lo hemos sacado del listado anterior
    - esto nos devuelve un listado con las versiones específicas

## azure Hardware Models

## Azure Virtual Machine

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