DevOps Sesión 10 (2022-03-14) Vagrant + Packer

Documentación relacionada

- 3-Topic 703 Machine Deployment/1-Material Curso Vagrant/

Vagrant

- ./2-Uso básico de vagrant.pdf
- ./Clase Resumen Vagrant.txt
- ./Herramientas Devops entornos de desarrollo en local, para programadores con Docker y Vagrant .pdf

multimaquina

- ./Herramientas Devops entornos de desarrollo en local, para programadores con Docker y Vagrant .pdf pàg 153
- ./ejemplos-iaw-practica-vagrant
- ./ejemplos-vagrantfiles-multimaquina
- ./ejemplos-iaw-practica-vagrant/ejemplo-10

```
# -*- mode: ruby -*-
# vi: set ft=ruby :

Vagrant.configure("2") do |config|

  config.vm.box = "ubuntu/xenial64"

  # Load Balancer
  config.vm.define "web-balancer" do |app|
    app.vm.hostname = "web-balancer"
    app.vm.network "private_network", ip: "192.168.33.10"
    app.vm.provision "shell", path: "provision/provision-for-balancer.sh"
  end

  # Nginx
  config.vm.define "web-1" do |app|
```

```
    app.vm.hostname = "web-1"
    app.vm.network "private_network", ip: "192.168.33.11"
    app.vm.provision "shell", path: "provision/provision-for-nginx.sh"
  end

  # Nginx
  config.vm.define "web-2" do |app|
    app.vm.hostname = "web-2"
    app.vm.network "private_network", ip: "192.168.33.12"
    app.vm.provision "shell", path: "provision/provision-for-nginx.sh"
  end
end
```

```
# -*- mode: ruby -*-
# vi: set ft=ruby :

#https://www.vagrantup.com/docs/other/enviromental-variables
ENV['VAGRANT_NO_PARALLEL'] = 'yes'

Vagrant.configure(2) do |config|

  NodeCount = 1

  (1..NodeCount).each do |i|
    config.vm.define "centosvm0#{i}" do |node|
      node.vm.box = "centos/7"
      node.vm.hostname = "centosvm0#{i}.example.com"
      node.vm.network "private_network", ip: "172.42.42.10#{i}"
      node.vm.provider "virtualbox" do |v|
        v.name = "centosvm0#{i}"
        v.memory = 2048
        v.cpus = 1
      end
    end
  end

end
```

```
# -*- mode: ruby -*-
# vi: set ft=ruby :

ENV['VAGRANT_NO_PARALLEL'] = 'yes'

Vagrant.configure(2) do |config|

  CentosNodes = 1

  (1..CentosNodes).each do |i|
    config.vm.define "centosvm0#{i}" do |node|
      node.vm.box = "centos/7"
      node.vm.hostname = "centosvm0#{i}.example.com"
      node.vm.network "private_network", ip: "172.16.16.10#{i}"
      node.vm.provider "virtualbox" do |v|
        v.name = "centosvm0#{i}"
        v.memory = 1024
        v.cpus = 1
```

```
      end
      node.vm.provision "shell", path: "bootstrap_centos.sh"
    end
  end

  UbuntuNodes = 1

  (1..UbuntuNodes).each do |i|
    config.vm.define "ubuntuvm0#{i}" do |node|
      node.vm.box = "ubuntu/focal64"
      node.vm.hostname = "ubuntuvm0#{i}.example.com"
      node.vm.network "private_network", ip: "172.16.16.20#{i}"
      node.vm.provider "virtualbox" do |v|
        v.name = "ubuntuvm0#{i}"
        v.memory = 1024
        v.cpus = 1
      end
      node.vm.provision "shell", path: "bootstrap_ubuntu.sh"
    end
  end
end
```

- https://www.vagrantup.com/docs/other/environmental-variables

plugins

https://github.com/mitchellh/vagrant/wiki/Available-Vagrant-Plugins

AWS Provider

> - ./vagrant-aws
> - ./Clase Resumen Vagrant.txt lin 200

https://github.com/mitchellh/vagrant-aws

packer

> - ./2-Laboratorios Packer
> - https://www.packer.io/downloads
> - ./Laboratorio packer resumido.txt
> - ./Labortatorio Packer para crear imágenes de máquinas virtuales.pdf

Packer es una herramienta de software libre desarrollada por Hashicorp que nos permite crear imágenes de sistema operativo de forma automatizada y utilizando archivos de configuración para tal efecto.

- ficheros de configuración JSON o HCL2
- builders (constructores)
    - https://www.packer.io/plugins
- providers
- instalación desatendida (propia de cada fabricante)
    - RedHat/Centos: ks.cfg
    - Debian: preseed.cfg
    - Windows: autounattend.xml

lab

```
cd ./packer-centos7-master
packer build -only=virtualbox-iso centos7-packer-version1.6.json
# genera: centos71-x64-virtualbox.box
vagrant box list
vagrant box add --name centos71-lab centos71-x64-virtualbox.box
vagrant box list
vagrant up
vagrant box remove centos71-lab
```

TODO

- registro para Vagrant
- artifactory

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