

# glusterfs vagrant POC

vagrant

## tests

- 3 nodos, cae 1
  - los otros dos continúan funcionando
  - al reincorporarse el tercero, restituye la información
- 2 nodos, añadir tercero posteriormente
  - gluster peer probe node3
  - gluster volume add-brick gv0 replica 3 node3:/exports/sdb1/brick1
  - gluster volume status
- 1 nodo, añadir segundo (pruebas processing 3)

## install

- require: vagrant plugin install vagrant-hosts

Vagrantfile

```
VAGRANTFILE_API_VERSION = "2"

cluster = {
  "node1" => { :ip => "10.0.0.10", :cpus => 1, :mem => 1024 },
  "node2" => { :ip => "10.0.0.20", :cpus => 1, :mem => 1024 },
  "node3" => { :ip => "10.0.0.30", :cpus => 1, :mem => 1024 }
}

Vagrant.configure(VAGRANTFILE_API_VERSION) do |config|

  cluster.each_with_index do |(hostname, info), index|

    config.vm.define hostname do |cfg|

      cfg.vm.provider :virtualbox do |vb, override|
        config.vm.box = "debian/buster64"
        override.vm.network :private_network, ip: "#{info[:ip]}"
        override.vm.hostname = hostname
        vb.name = hostname
        vb.customize ["modifyvm", :id, "--memory", info[:mem], "--cpus",
info[:cpus], "--hwvirtex", "on"]

        file_to_disk = 'data/' + hostname + '-disk.vdi'
        unless File.exist?(file_to_disk)
          vb.customize ['createhd',
            '--filename', file_to_disk,
            '--size', 5 * 1024]
        end
        vb.customize ['storageattach', :id,
          '--storagectl', 'SATA Controller',
          '--port', 1,
          '--device', 0,
```

```
        '--type', 'hdd',
        '--medium', file_to_disk]

end # end provider

config.vm.provision 'shell', path: './data/allnodes.sh'
config.vm.provision :hosts, :sync_hosts => true

node_script = './data/' + hostname + '.sh'
if File.exists?(node_script) then
  config.vm.provision "file", source: node_script, destination: "$HOME/"
else
  config.vm.provision "shell", inline: "echo SCRIPT not found!"
end

end # end config

end # end cluster
end
```

#### [allnodes.sh](#)

```
[[ ! -f /etc/provision_env_disk_added_date ]] && {

  echo 'type=83' | sudo sfdisk /dev/sdb
  sudo mkfs.ext4 /dev/sdb1
  sudo mkdir -p /exports/sdb1
  echo "/dev/sdb1      /exports/sdb1    ext4 user,auto,defaults      0      0"
  | sudo tee --append /etc/fstab
  sudo date > /etc/provision_env_disk_added_date
}

mount /exports/sdb1
sudo mkdir /exports/sdb1/brick1

sudo apt-get -y install gnupg
wget -O - https://download.gluster.org/pub/gluster/glusterfs/7/rsa.pub | sudo
apt-key add -
# DEBID=$(grep 'VERSION_ID=' /etc/os-release | cut -d '=' -f 2 | tr -d '"')
# DEBVER=$(grep 'VERSION=' /etc/os-release | grep -Eo '[a-z]+')
# DEBARCH=$(dpkg --print-architecture)
# echo "deb
https://download.gluster.org/pub/gluster/glusterfs/LATEST/Debian/${DEBID}/${DE
BARCH}/apt ${DEBVER} main" | sudo tee /etc/apt/sources.list.d/gluster.list
echo "deb
https://download.gluster.org/pub/gluster/glusterfs/LATEST/Debian/10/amd64/apt
buster main" | sudo tee /etc/apt/sources.list.d/gluster.list

sudo apt-get -y update

sudo apt-get -y install glusterfs-server
sudo systemctl start glusterd
```

```
sudo systemctl enable glusterd
```

### node1.sh

```
#!/bin/bash

sudo gluster peer probe node2
sudo gluster peer probe node3

sudo gluster volume create gv0 replica 3 \
  node1:/exports/sdb1/brick1 \
  node2:/exports/sdb1/brick1 \
  node3:/exports/sdb1/brick1

sudo gluster volume start gv0

sudo mount -t glusterfs node1:/gv0 /mnt
```

### node{2,3}.sh

```
#!/bin/bash

MY_HOST=$(cat /etc/hostname)
sudo mount -t glusterfs ${MY_HOST}:/gv0 /mnt
```

- en lugar de **node1**, podría ser cualquier otro de los dos nodos

From:  
<https://miguelangel.torresegea.es/wiki/> - miguel angel torres egea

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Last update: **07/09/2021 02:00**

