

casos de uso

- [tomcat](#)
- [php](#)
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- [vagrant+docker](#)

vagrant box

- crear una box en Vagrant:
 1. `vagrant package <nombre_maquina> -output fichero.box`
 2. subir (versión, proveedor, etc...)
 3. descargar (desde otro Vagrantfile):

[Vagrantfile](#)

configuraciones simples

```
Vagrant.configure(2) do |config|
  config.vm.box = "debian/jessie64"
  config.vm.hostname = "prueba1"
  config.vm.provision "shell", path: "actualizar.sh"

  config.vm.network :private_network, ip: "192.168.100.10" # only host
  config.vm.network :public_network, ip: "192.168.100.20"
  config.vm.network :public_network, :bridge=>"eth0"
  config.vm.network :forwarded_port, guest: 80, host: 8080
  config.vm.synced_folder "./www", "/www"

  config.vm.provider "virtualbox" do |vb|
    vb.name = "VM-Prueba1"
    vb.memory = 1024
    vb.cpus = 3
    vb.linked_clone = true
    vb.gui = true
  end
end
```

```
Vagrant.configure("2") do |config|
  config.vm.define "web" do |nodol|
    nodol.vm.box = "debian/jessie64"
    nodol.vm.hostname = "web"
  end
end
```

```
    nodo1.vm.network "public_network", bridge: "eth0"
    nodo1.vm.network "private_network", ip: "10.0.100.101"
  end
  config.vm.define "db" do |nodo2|
    nodo2.vm.box = "debian/jessie64"
    nodo2.vm.hostname = "db"
    nodo2.vm.network "private_network", ip: "10.0.100.102"
  end
end
```

master (Dani)

- la configuración de las VM está en fichero separado

```
API_VERSION = '2'
VMS_FILE_PATH = 'vagrant/vms.yml'

hosts = YAML.load_file(VMS_FILE_PATH)

Vagrant.configure(API_VERSION) do |config|
  hosts.each do |host|
    config.vm.define host['name'] do |node|
      node.vm.box = host['box']
      node.vm.hostname = host['hostname']
      node.vm.network :private_network, ip: host['ip']

      host['sync']&.each { |sync| config.vm.synced_folder sync['host'],
sync['guest'], type: sync['type'] }
      host['ports']&.each { |port| node.vm.network :forwarded_port, guest:
port['guest'], host: port['host'] }

      if host['ansible_local']
        host['ansible_local']['playbooks']&.each { |pb|
          config.vm.provision :ansible_local do |ansible|
            ansible.limit = pb['limit']
            ansible.become = pb['become']
            ansible.playbook = pb['playbook']
            ansible.inventory_path = pb['inventory']
            ansible.version = host['ansible_local']['config']['version']
            ansible.install_mode = host['ansible_local']['config']['mode']
          end
        }
      end

      config.vm.provider :virtualbox do |v|
        v.linked_clone = true
        v.name = host['name']
        v.cpus = host['cpus']
        v.memory = host['memory']
      end
    end
  end
end
```

```
- name: openshift-master
  box: centos/7
  hostname: 10.0.0.10
  memory: 2048
  cpus: 2
  ip: 10.0.0.10
  ports:
    - host: 8443
      guest: 8443
  sync:
    - host: .
      guest: /vagrant
      type: nfs

- name: openshift-node1
  box: centos/7
  hostname: 10.0.0.11
  memory: 2048
  cpus: 2
  ip: 10.0.0.11
  ports:
    - host: 8081
      guest: 80
    - host: 8481
      guest: 443
  sync:
    - host: .
      guest: /vagrant
      type: nfs

- name: openshift-node2
  box: centos/7
  hostname: 10.0.0.12
  memory: 2048
  cpus: 2
  ip: 10.0.0.12
  ports:
    - host: 8082
      guest: 80
    - host: 8482
      guest: 443
  sync:
    - host: .
      guest: /vagrant
      type: nfs

- name: bastion
  box: centos/7
  memory: 512
  cpus: 1
  ip: 10.0.0.2
  sync:
    - host: .
```

```
    guest: /vagrant
    type: nfs
  ansible_local:
    config:
      mode: pip
      version: 2.4.1.0
    playbooks:
      - limit: "all"
        become: true
        playbook: ./ansible/prerequisites.yml
        inventory: ./ansible/inventory/hosts
      - limit: "all"
        become: true
        playbook: ./openshift-ansible/playbooks/byo/config.yml
        inventory: ./ansible/inventory/hosts
```

master

```
VAGRANTFILE_API_VERSION = '2'
DEFAULT_PROVIDER_MEMORY = '256'
DEFAULT_PROVIDER_CPUS = '2'
DEFAULT_LINKED_CLONE = true

def do_ports(vm, host)
  if host.has_key?('ports')
    host['ports'].each do |port|
      vm.network :forwarded_port, guest: port['guest'], host: port['host']
    end
  end
end

def do_provision(vm, host)
  if host.has_key?('shell')
    vm.provision "shell", path: host['shell']
  end
end

def do_syncfolder(vm, host)
  if host.has_key?('syncfolder')
    host['syncfolder'].each do |syncf|
      vm.synced_folder syncf['host'], syncf['guest']
    end
  end
end

def do_provider(vm, host)
  memory = DEFAULT_PROVIDER_MEMORY;
  cpus = DEFAULT_PROVIDER_CPUS;

  chars = { :memory => DEFAULT_PROVIDER_MEMORY, :cpus => DEFAULT_PROVIDER_CPUS,
            :linked_clone => DEFAULT_LINKED_CLONE }
end
```

```
if host.has_key?('provider')
  host['provider'].each do |singlechar|
    #memory = host['memory'] ? host['memory'] : DEFAULT_PROVIDER_MEMORY;
    #memory = singlechar['memory'] ? singlechar['memory'] :
DEFAULT_PROVIDER_MEMORY;
    #cpus = singlechar['cpus'] ? singlechar['cpus'] : DEFAULT_PROVIDER_CPUS;
    chars[:memory] = singlechar['memory'] ? singlechar['memory'] :
DEFAULT_PROVIDER_MEMORY;
    chars[:cpus] = singlechar['cpus'] ? singlechar['cpus'] :
DEFAULT_PROVIDER_CPUS;
  end # singlechar
end

vm.provider :virtualbox do |v|
  v.name = host['name']
  v.memory = chars[:memory]
  v.cpus = chars[:cpus]
  v.linked_clone = chars[:linked_clone]
end

# características.each_with_index do |v,k|
#   #puts "#{k}"
#   vm.provider.k = v[k]
# end

end

hosts = YAML.load_file('Vagranthosts.yml')

Vagrant.configure(VAGRANTFILE_API_VERSION) do |config|

  hosts.each do |host|
    config.vm.define host['name'] do |node|
      node.vm.box = host['box']
      node.vm.hostname = host['name']
      node.vm.network :private_network, ip: host['ip']

      do_ports(node.vm,host)
      do_provision(node.vm,host)
      do_syncfolder(node.vm,host)
      do_provider(node.vm,host)

      end # node
    end # host
  end # config
```

```
- name: c7-gitlab
  ip: 192.168.56.130
  box: centos/7
  shell: c7-gitlab.sh
  ports:
    - host: 8080
      guest: 80
```

```
syncfolder:  
- host: './data'  
  guest: '/vagrant'  
provider:  
- cpus: 2  
  memory: 512
```

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