



Vagrant

# Vagrant commands

Vagrant init

Vagrant up

Vagrant reload

Vagrant destroy

Vagrant ssh

vagrant plugin install vagrant-vbguest

vagrant provision

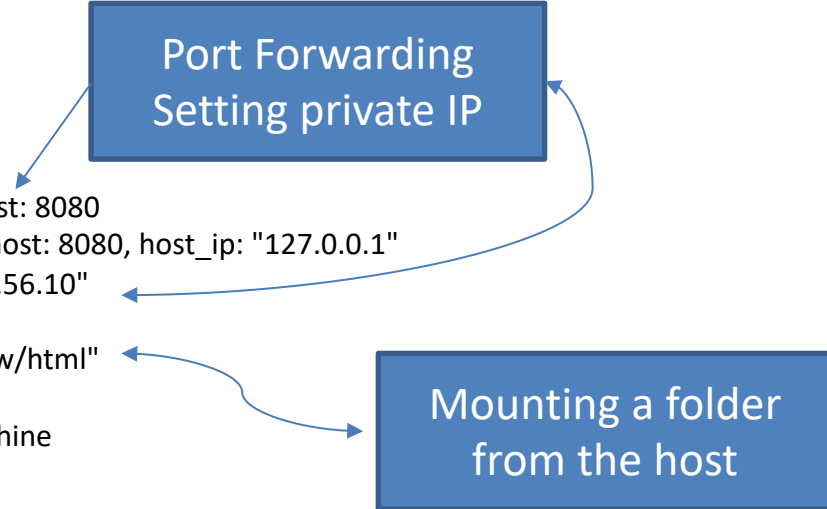
# Vagrant files

```
Vagrant.configure("2") do |config|
  # Box Settings
  config.vm.box = "centos/7"
  # Provider Settings
  config.vm.provider "virtualbox" do |vb|
    vb.memory = 2048
    vb.cpus = 2
  end
  # Network Settings
  # config.vm.network "forwarded_port", guest: 80, host: 8080
  # config.vm.network "forwarded_port", guest: 80, host: 8080, host_ip: "127.0.0.1"
  # config.vm.network "private_network", ip: "10.0.2.5"
  # Folder Settings
  # config.vm.synced_folder ".", "/var/www/html", :nfs => { :mount_options => ["dmode=777", "fmode=666"] }
  config.vm.provision "shell", inline: <<-SHELL
    yum install -y git net-tools httpd
    yum install -y epel-release
  SHELL
end
```

# Vagrant file to create web service and forward ports

```
# -*- mode: ruby -*-
# vi: set ft=ruby :
Vagrant.configure("2") do |config|
  config.vm.box = "centos/7"
  config.vm.network "forwarded_port", guest: 80, host: 8080
  # config.vm.network "forwarded_port", guest: 80, host: 8080, host_ip: "127.0.0.1"
  config.vm.network "private_network", ip: "192.168.56.10"
  # config.vm.network "public_network"
  config.vm.synced_folder "webdirectory", "/var/www/html"
  config.vm.provider "virtualbox" do |vb|
    # Display the VirtualBox GUI when booting the machine
    # vb.gui = true
    # Customize the amount of memory on the VM:
    # vb.memory = "1024"
  end
  config.vm.provision "shell", inline: <<-SHELL
    yum install -y git httpd net-tools
    systemctl enable --now httpd
  SHELL
end
```

Port Forwarding  
Setting private IP



Mounting a folder  
from the host

# Vagrantfile with multiple machines

```
Vagrant.configure("2") do |config|
  config.vm.define "web01", primary: true do |web01|
    web01.vm.hostname = 'web01'
    web01.vm.box = "ubuntu/trusty64"

    web01.vm.network :private_network, ip: "192.168.56.101"
    web01.vm.network :forwarded_port, guest: 22, host: 10122,
id: "ssh"
    web01.vm.provider :virtualbox do |v|
      v.customize ["modifyvm", :id, "--natdnshostresolver1", "on"]
      v.customize ["modifyvm", :id, "--memory", 512]
      v.customize ["modifyvm", :id, "--name", "web01"]
    end
  end
  config.vm.define "web02", autostart: false do |web02|
    web02.vm.hostname = 'web02'
    web02.vm.box = "ubuntu/trusty64"

    web02.vm.network :private_network, ip: "192.168.56.103"
    web02.vm.network :forwarded_port, guest: 22, host: 10122,
id: "ssh"
```

```
web02.vm.provider :virtualbox do |v|
  v.customize ["modifyvm", :id, "--natdnshostresolver1", "on"]
  v.customize ["modifyvm", :id, "--memory", 512]
  v.customize ["modifyvm", :id, "--name", "web02"]
end
end

config.vm.define "db" do |db|
  db.vm.hostname = 'db'
  db.vm.box = "ubuntu/precise64"

  db.vm.network :private_network, ip: "192.168.56.102"
  db.vm.network :forwarded_port, guest: 22, host: 10222, id: "ssh"

  db.vm.provider :virtualbox do |v|
    v.customize ["modifyvm", :id, "--natdnshostresolver1", "on"]
    v.customize ["modifyvm", :id, "--memory", 512]
    v.customize ["modifyvm", :id, "--name", "db"]
  end
end
end
```



**THANK YOU**