

Vagrant automation for centos:

Prerequisite

1. VTx(Virtualization) enabled in Bios
2. Vagrant tool - <https://developer.hashicorp.com/vagrant/downloads>
Choose AMD64
3. VirtualBox
4. Download and install CLI Cygwin or gitbash

Setup:

1. Go to URL <https://app.vagrantup.com/boxes/search>
2. Search for centos



geerlingguy/centos7 1.2.27

CentOS 7 x64 minimal install for VirtualBox and VMware

virtualbox

vmware_desktop

Downloads
527,342

Released
5 months ago

3. Click on it and copy the name of box

geerlingguy/centos7



geerlingguy / centos7 Vagrant box

How to use this box with Vagrant:

Vagrantfile [New](#)

```
Vagrant.configure("2") do |config|
  config.vm.box = "geerlingguy/centos7"
end
```

4. Open Cygwin or git bash
 5. Create the directory vagrant-vms
Mkdir vagrant-vms
 6. Inside vagrant-vms create directory
Mkdir centos
- ```
Mobin@LAPTOP-5HS2QF1F ~/vagrant-vms
$ mkdir centos
```
7. Run command vagrant init <box name>  
e.g.  
vagrant init geerlingguy/centos7

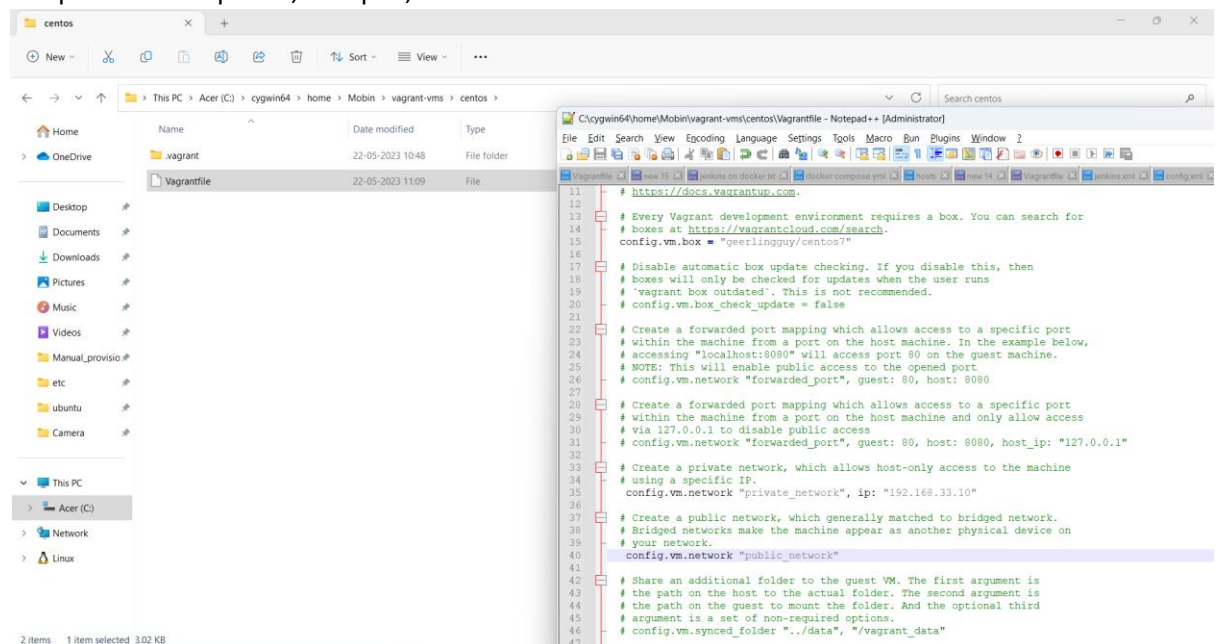
```
Mobin@LAPTOP-5HS2QF1F ~/vagrant-vms
$ mkdir centos

Mobin@LAPTOP-5HS2QF1F ~/vagrant-vms
$ cd centos/

Mobin@LAPTOP-5HS2QF1F ~/vagrant-vms/centos
$ vagrant init geerlingguy/centos7
A 'Vagrantfile' has been placed in this directory. You are now
ready to 'vagrant up' your first virtual environment! Please read
the comments in the Vagrantfile as well as documentation on
'vagrantup.com' for more information on using Vagrant.

Mobin@LAPTOP-5HS2QF1F ~/vagrant-vms/centos
$ ls
Vagrantfile
```

8. You can see the vagrantfile got created automatically
9. You can edit this vagrant file if you want to increase memory size, if don't want to edit leave it as it is.
10. Here we will set the specific ip address for your machine so open this vagrantfile in vi editor or open it in notepad++, notepad, and uncomment line number 35 and 40.



11. Run command “vagrant up” as below

```

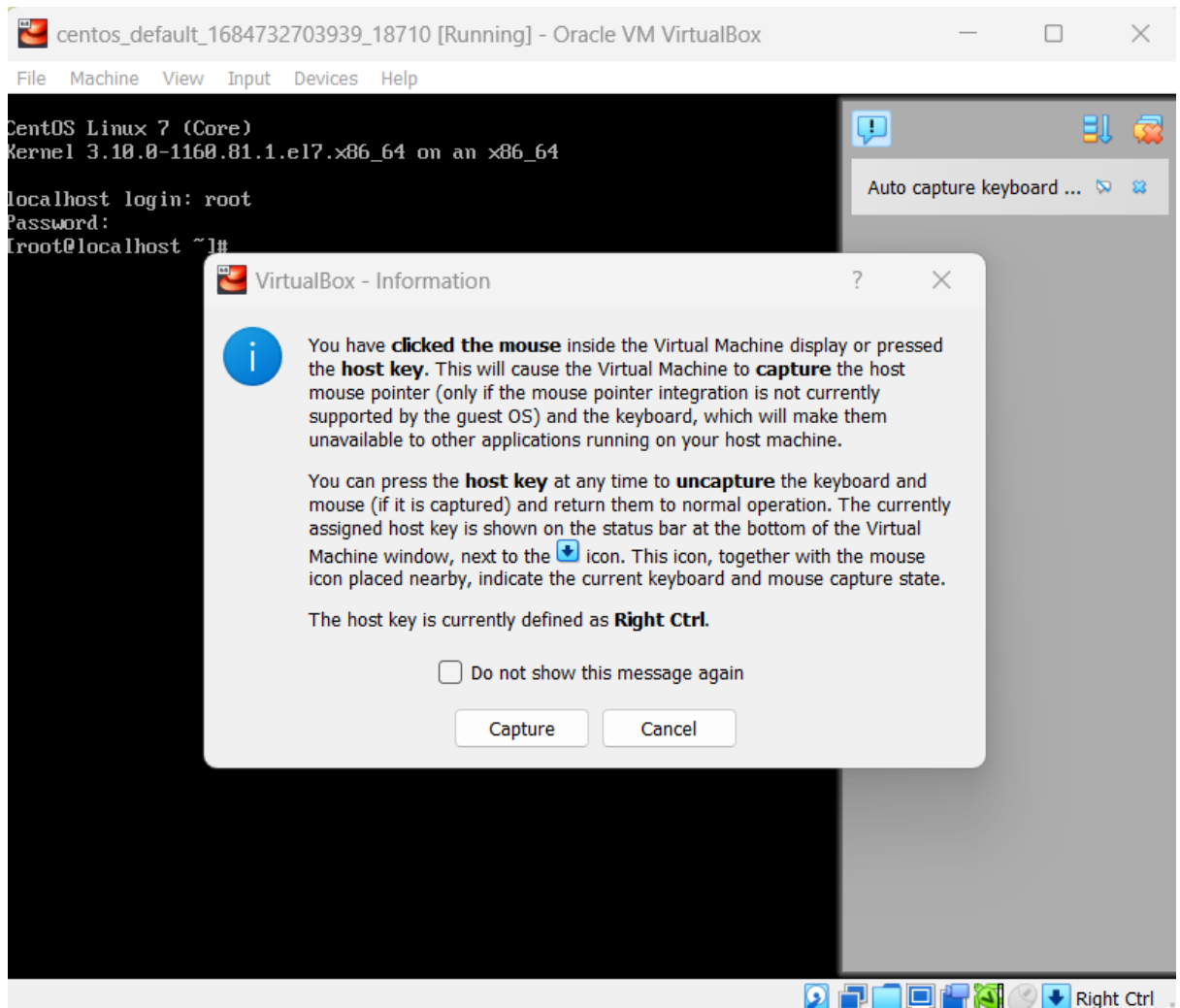
Mobin@LAPTOP-5HS2QF1F ~/vagrant-vms/centos
$ ls
Vagrantfile

Mobin@LAPTOP-5HS2QF1F ~/vagrant-vms/centos
$ vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Importing base box 'geerlingguy/centos7'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'geerlingguy/centos7' version '1.2.27' is up to date...
==> default: Setting the name of the VM: centos_default_1684732703939_18710
==> default: Clearing any previously set network interfaces...
==> default: Preparing network interfaces based on configuration...
 default: Adapter 1: nat
==> default: Forwarding ports...
 default: 22 (guest) => 2222 (host) (adapter 1)
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
 default: SSH address: 127.0.0.1:2222
 default: SSH username: vagrant
 default: SSH auth method: private key
 default:
 default: Vagrant insecure key detected. Vagrant will automatically replace
 default: this with a newly generated keypair for better security.
 default:
 default: Inserting generated public key within guest...
 default: Removing insecure key from the guest if it's present...
 default: Key inserted! Disconnecting and reconnecting using new SSH key...
==> default: Machine booted and ready!
==> default: Checking for guest additions in VM...
 default: The guest additions on this VM do not match the installed version of
 default: VirtualBox! In most cases this is fine, but in rare cases it can
 default: prevent things such as shared folders from working properly. If you see
 default: shared folder errors, please make sure the guest additions within the
 default: virtual machine match the version of VirtualBox you have installed on
 default: your host and reload your VM.
 default:
 default: Guest Additions Version: 6.1.32
 default: VirtualBox Version: 7.0
==> default: Mounting shared folders...
 default: /vagrant => C:/cygwin64/home/Mobin/vagrant-vms/centos

Mobin@LAPTOP-5HS2QF1F ~/vagrant-vms/centos

```

12. Once all done open Virtual box
13. You can see the centos is appeared on your screen if not click on show button
14. Once you click on show arrow in green below screen will appear. When you try to hover mouse in it, it will give below message, click on capture

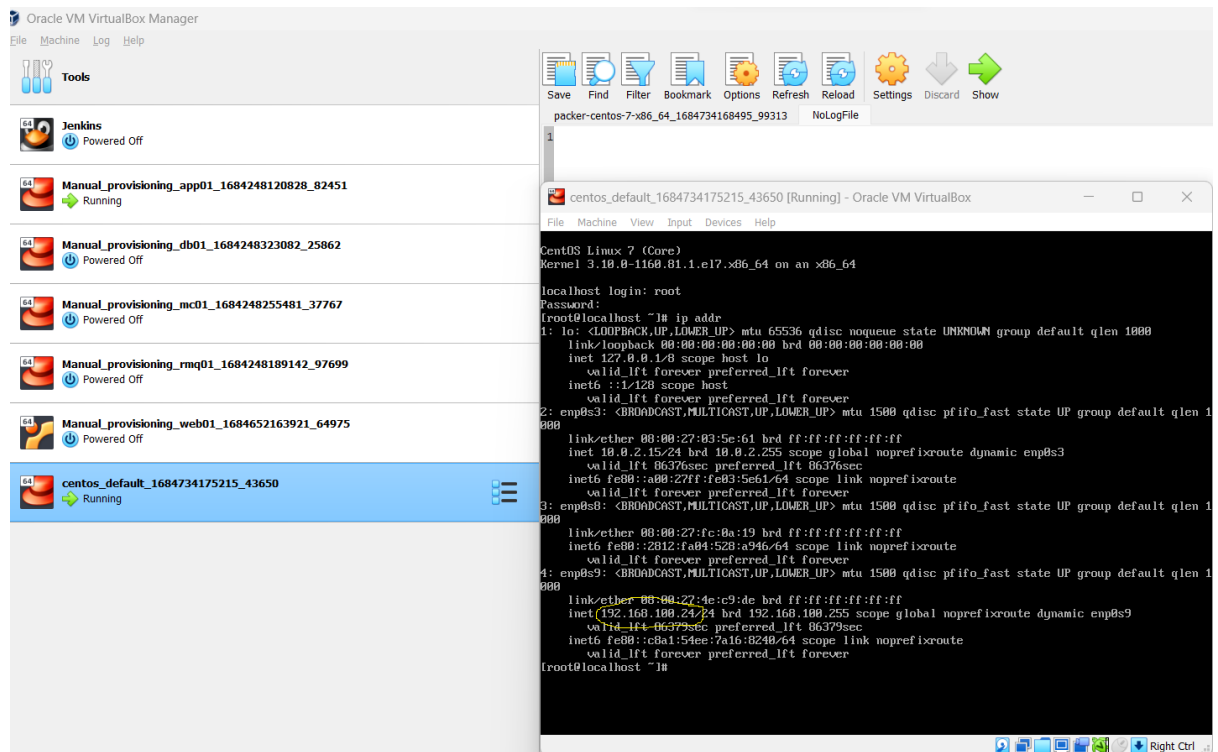


Login into it using below user

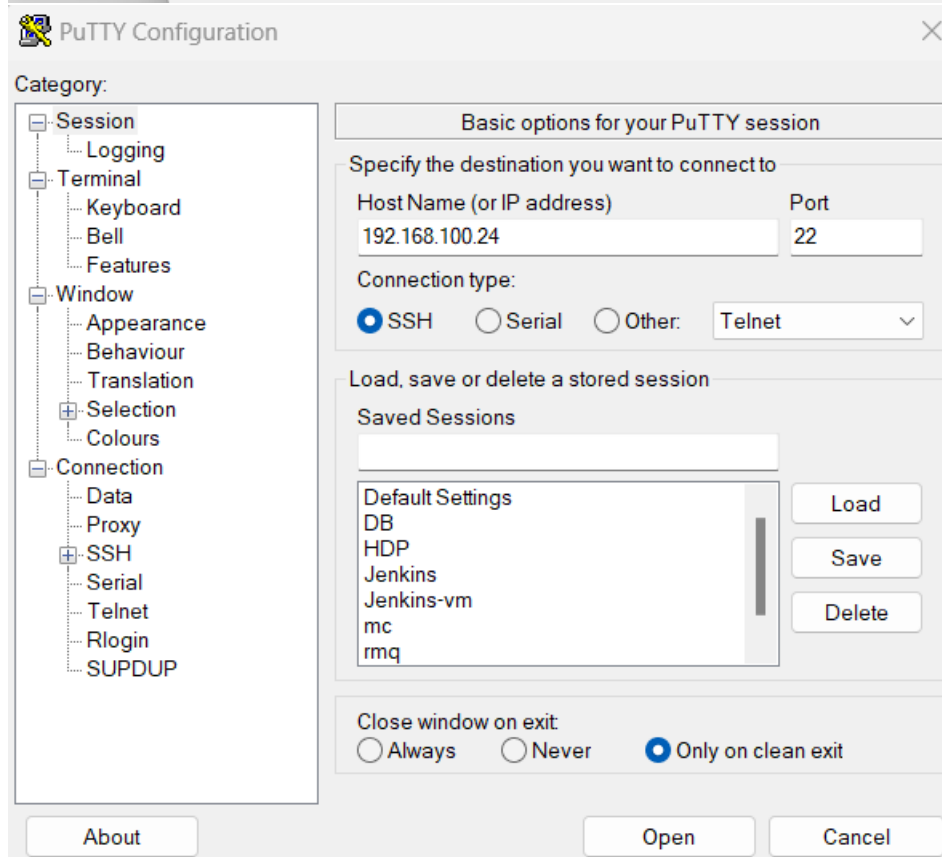
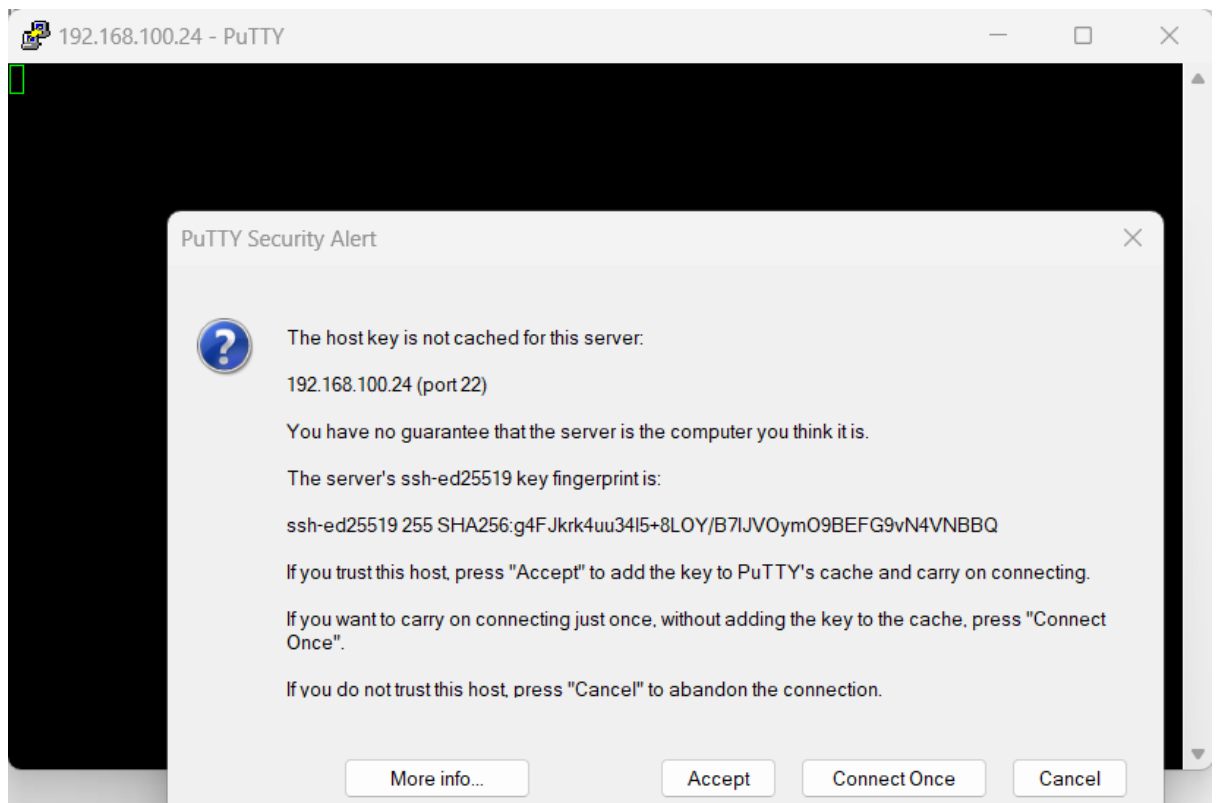
User : root

Password: vagrant

Run command "ip addr" and you can see the ip address



15. Now to in order to get your mouse out of this screen press control(Ctrl) button from keyboard, mouse will come out from it.
16. Now if you want to work on this VM you can work on same VM or to fasten the speed you can use putty, open putty and place ip address and open and accept it



Login using  
User : root  
Password: vagrant

```
root@localhost:~
login as: root
root@192.168.100.24's password:
Last login: Mon May 22 05:45:51 2023
[root@localhost ~]#
```

Now if you want to delete this VM run vagrant destroy

```
Mobin@LAPTOP-5HS2QF1F ~/vagrant-vms/centos
$ vagrant destroy
 default: Are you sure you want to destroy the 'default' VM? [y/N] y
==> default: Destroying VM and associated drives...
```