**Set up VirtualBox and Vagrant on Ubuntu 22.04**

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| **Update and upgrade the package index in terminal:**  <https://medium.com/@kadimasam/set-up-virtualbox-and-vagrant-on-ubuntu-22-04-9ac6b9ace94c> | |
| 1 | sudo apt update |
| Import VB package repositories keys: | |
| 2 | Sudo apt install curl -y |
| 3 | curl https://www.virtualbox.org/download/oracle\_vbox\_2016.asc | gpg --dearmor > oracle\_vbox\_2016.gpg |
| 4 | curl https://www.virtualbox.org/download/oracle\_vbox.asc | gpg --dearmor > oracle\_vbox.gpg |
| 5 | sudo install -o root -g root -m 644 oracle\_vbox\_2016.gpg /etc/apt/trusted.gpg.d/ |
| 6 | sudo install -o root -g root -m 644 oracle\_vbox.gpg /etc/apt/trusted.gpg.d/ |
| Add the VirtualBox repository | |
| 7 | echo "deb [arch=amd64] http://download.virtualbox.org/virtualbox/debian $(lsb\_release -sc) contrib" | sudo tee /etc/apt/sources.list.d/virtualbox.list |
| Install VirtualBox: | |
| 8 | sudo apt update |
| 9 | sudo apt install -y linux-headers-$(uname -r) dkms |
| 10 | sudo apt install virtualbox-6.1 -y |
| Check VirtualBox version: | |
| 11 | VBoxManage --version |
| Install Vagrant | |
| 12 | sudo apt install vagrant -y |
| Check Vagrant version: | |
| 13 | vagrant --version |
| **Getting Started Guide** <https://devopscube.com/vagrant-tutorial-beginners/> Create a Vagrant file: | |
| 14 | vagrant init |
| To go into the file (nano is the editor): | |
| 15 | nano Vagrantfile |
| 16 | in row # config.vm.network = “base” Change to config.vm.box = " bento/ubuntu-22.04"  Exit: Ctrl+X Save modified buffer? Y |
| Starts and provisions the vagrant environment: | |
| 17 | vagrant up You have create a vm with the name of your computer xxxx\_default\_xxxxxxxx\_xxxx |
| Make a new directory for yours vm call u22 (where you will create the Vagrant files): | |
| 18 | mkdir u22 |
| Gate into u22 (command cd = to go into this directory): | |
| 19 | cd u22 |
| Check you are in the path (command: print working directory = where I am now): | |
| 20 | pwd |
| Change the ip: | |
| 21 | In VirtualBox Host / network: press Create  Take note of the ip address for to change it in Vagrantfile |
| Create a Vagrant file: | |
| 22 | Back to Terminal, you know you are inside the directory u22 you created before (step 25) because the line has: ̴/u22$  vagrant init |
| Going into the Vagrant file to create virtual machines: | |
| 23 | nano Vagrantfile |
| 24 | in row # config.vm.network = “base”  Change it to config.vm.box = "bento/ubuntu-22.04 "  Exit: Ctrl+X Save modified buffer? Y |
| Setting Static IP address to you guest virtualmachine | |
| 25 | in row: # config.vm.network “private network”, ip: “192.168.xx.xx”  change the 3rth octet for the same in the network you did create in VirtualBox host (in step 28)  and 4rth a random number you choose above 1 and below 255. Exit: Ctrl+X Save modified buffer? Y |
| 26 | vagrant up |
| Set guest connexion in VB guest | |
| 27 | You had created 2 virtual machines in your VirtualBox, go to the one call u22\_default\_xxxxx… and power it off (In the menu of the vm: right click/close) |
| 28 | In u22-default\_xxxx… open Setting/Network Adapter 1: Enabled Attached to: Bridget Adapter |
| 29 | Adapter 2: Enable it Attached to: Host-only Adapter Save changes with OK |
| 30 | Start the virtual machine, login and check it has wireless internet connexion Ping 8.8.8.8 |
| Start virtual machine | |
|  | Login: vagrant password: vagrant |