**Provisioning a server and setting up vagrant**

**Use OVH dedicated server.**

**Than through vagrant we can create a number of**

**machines in no time.**

**What is vagrant :: Vagrant is a tool for building and managing virtual test and development environments which with easy to use workflows reduces time in creating same environment and increases production parity.**

**To achieve it magic ,vagrant stands on the shoulders of giants.Machines are provisioned on the top of aws , VMware, Virutal box etc. Then, industry-standard**[**provisioning tools**](https://www.vagrantup.com/docs/provisioning/)**such as shell scripts, Chef, or Puppet, can automatically install and configure**

**software on the virtual machine.**

**Install Vagrant ::**

**Download vagrant**

<https://www.vagrantup.com/downloads.html>

select for windows ,download and install

Also install latest virtual box and add extension in vb

<https://www.downloadcrew.com/article/20279-virtualbox_extension_pack>

Now :

1) Enable VT-X (Intel Virtualization Technology) in your computer bios settings.

2) Disable Hyper-V on program and features page in the control panel.

**Install Git for Windows**

<https://git-scm.com/download/win>

Now start vagrant

lenovo@LAPTOP-LKH3JHUU MINGW64 ~/projects/ubuntu1404-desktop

$ vagrant box add ubuntu/trusty64

lenovo@LAPTOP-LKH3JHUU MINGW64 ~/projects/ubuntu1404-desktop

$ vagrant up –provider virtualbox

lenovo@LAPTOP-LKH3JHUU MINGW64 ~/projects/ubuntu1404-desktop

$ vagrant init box-cutter/ubuntu1404-desktop

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.

lenovo@LAPTOP-LKH3JHUU MINGW64 ~/projects/ubuntu1404-desktop

$ vagrant up –provider virtualbox

vagrant suspend

Vagrant multi machine steup

Vagrant init

vagrant box remove ubuntu/trusty64

vagrant box add ubuntu/trusty64

Now change VagrantFile update

#mutiple boxes

config.vm.define "m1" do |m1|

m1.vm.box = "ubuntu/trusty64"

config.vm.define "web" do |web|

web.vm.provider "virtualbox" do |vb|

vb.cpus = "2"

vb.memory = "4024"

end

end

end

config.vm.define "m2" do |m2|

m2.vm.box = "ubuntu/trusty64"

config.vm.define "web" do |web|

web.vm.provider "virtualbox" do |vb|

vb.cpus = "2"

vb.memory = "4024"

end

end

end

config.vm.define "m3" do |m3|

m3.vm.box = "ubuntu/trusty64"

config.vm.define "web" do |web|

web.vm.provider "virtualbox" do |vb|

vb.cpus = "2"

vb.memory = "4024"

end

end

end

end

from already existing machine

first export as hadoop1.ova

then

Vagrant package --base hadoop1 --output hadoop1.box

vagrant box add hadoop1 hadoop1.box

vagrant box list

vagrant init hadoop1

lenovo@LAPTOP-LKH3JHUU MINGW64 ~/projects/multivbox

$ vagrant box add peru/ubuntu-18.04-desktop-amd64

<https://www.vagrantup.com/docs/boxes/base.html>

config.vm.provider :virtualbox do |vb|

vb.gui = true

end