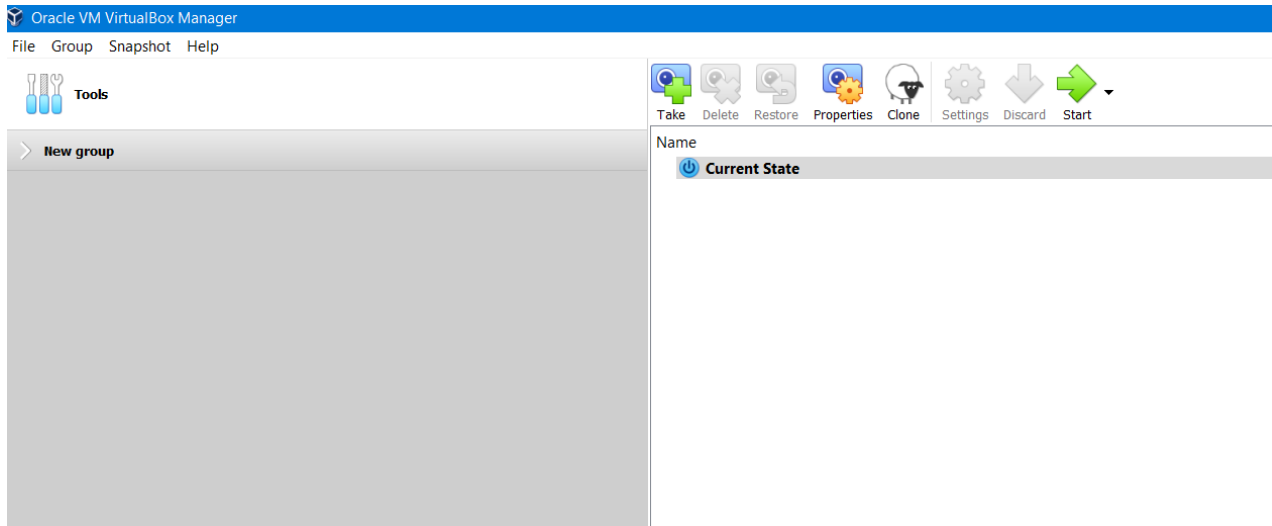
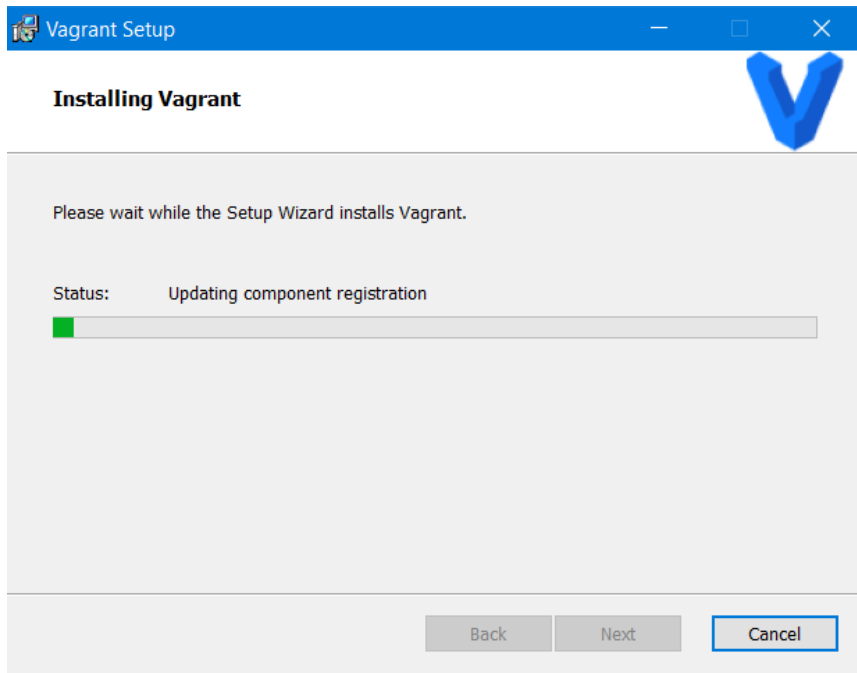


Experiment 11
Vagrant
Roll no: R171218009

Download and install virtual box:



Installing Vagrant:



Run command 'vagrant - -version' in cmd to check version of vagrant:

```
D:\A_semester_5\CICD\first-vagrant>vagrant --version
Vagrant 2.2.14
```

Create a directory for vm box and switch to this directory:

```
D:\A_semester_5\CICD>mkdir first-vagrant  
D:\A_semester_5\CICD>cd first-vagrant
```

Initialize Vagrantfile:

```
D:\A_semester_5\CICD\first-vagrant>vagrant init  
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.
```

Vagrantfile has been initialized:

```
D:\A_semester_5\CICD\first-vagrant>dir  
Volume in drive D is New Volume  
Volume Serial Number is 6A84-4EB8  
  
Directory of D:\A_semester_5\CICD\first-vagrant  
  
11/22/2020  10:55 PM    <DIR>          .  
11/22/2020  10:55 PM    <DIR>          ..  
11/22/2020  10:55 PM                3,080 Vagrantfile  
           1 File(s)                3,080 bytes  
           2 Dir(s)  53,266,448,384 bytes free
```

Open Vagrantfile and set config.vm.box = "hashicorp/precise64" (can set other vm box names as per requirement):

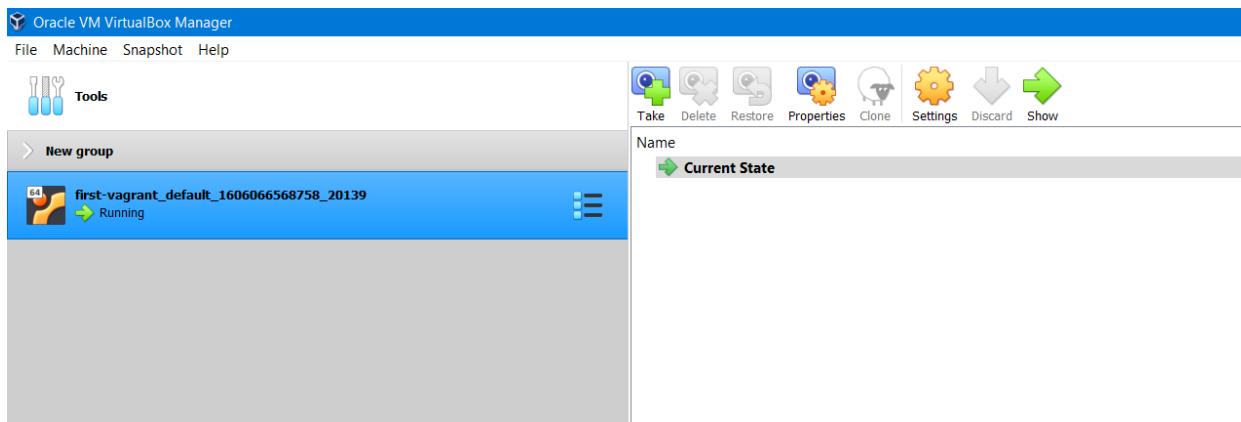
```
# vi: set ft=ruby :  
  
# All Vagrant configuration is done below. The "2" in Vagrant.configure  
# configures the configuration version (we support older styles for  
# backwards compatibility). Please don't change it unless you know what  
# you're doing.  
Vagrant.configure("2") do |config|  
  # The most common configuration options are documented and commented below.  
  # For a complete reference, please see the online documentation at  
  # https://docs.vagrantup.com.  
  
  # Every Vagrant development environment requires a box. You can search for  
  # boxes at https://vagrantcloud.com/search.  
  config.vm.box = "hashicorp/precise64"  
  
  # Disable automatic box update checking. If you disable this, then
```

Run 'vagrant up' command to run vagrant and create/run virtual machine:

```
D:\A_semester_5\CICD\first-vagrant>vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Box 'hashicorp/precise64' could not be found. Attempting to find and install...
    default: Box Provider: virtualbox
    default: Box Version: >= 0
==> default: Loading metadata for box 'hashicorp/precise64'
    default: URL: https://vagrantcloud.com/hashicorp/precise64
==> default: Adding box 'hashicorp/precise64' (v1.1.0) for provider: virtualbox
    default: Downloading: https://vagrantcloud.com/hashicorp/boxes/precise64/versions/1.1.0/providers/virtualbox.box
Download redirected to host: vagrantcloud-files-production.s3.amazonaws.com
    default:
==> default: Successfully added box 'hashicorp/precise64' (v1.1.0) for 'virtualbox'!
==> default: Importing base box 'hashicorp/precise64'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'hashicorp/precise64' version '1.1.0' is up to date...
==> default: Setting the name of the VM: first-vagrant_default_1606066568758_20139
Vagrant is currently configured to create VirtualBox synced folders with
the 'SharedFoldersEnableSymlinksCreate' option enabled. If the Vagrant
guest is not trusted, you may want to disable this option. For more
information on this option, please refer to the VirtualBox manual:

    https://www.virtualbox.org/manual/ch04.html#sharedfolders
```

Virtual machine is created and is in running state:



Now, ssh into the newly created virtual machine:

```
D:\A_semester_5\CICD\first-vagrant>vagrant ssh
Welcome to Ubuntu 12.04 LTS (GNU/Linux 3.2.0-23-generic x86_64)

 * Documentation:  https://help.ubuntu.com/
New release '14.04.6 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Welcome to your Vagrant-built virtual machine.
Last login: Sun Nov 22 17:49:28 2020
vagrant@precise64:~$ ls
postinstall.sh
vagrant@precise64:~$
```

Updating:

```
vagrant@precise64:~$ sudo apt-get update
Ign http://us.archive.ubuntu.com precise InRelease
Get:1 http://us.archive.ubuntu.com precise-updates InRelease [55.7 kB]
Get:2 http://security.ubuntu.com precise-security InRelease [55.7 kB]
Get:3 http://us.archive.ubuntu.com precise-backports InRelease [55.7 kB]
Hit http://us.archive.ubuntu.com precise Release.gpg
Hit http://us.archive.ubuntu.com precise Release
Get:4 http://us.archive.ubuntu.com precise-updates/main Sources [503 kB]
Get:5 http://security.ubuntu.com precise-security/main Sources [150 kB]
Get:6 http://security.ubuntu.com precise-security/restricted Sources [4,657 B]
Get:7 http://security.ubuntu.com precise-security/universe Sources [57.9 kB]
Get:8 http://security.ubuntu.com precise-security/multiverse Sources [3,040 B]
Get:9 http://security.ubuntu.com precise-security/main amd64 Packages [375 kB]
Get:10 http://us.archive.ubuntu.com precise-updates/restricted Sources [8,827 B]
```

Installing vim:

```
vagrant@precise64:~$ sudo apt-get install vim
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libgpm2 libpython2.7 python2.7 python2.7-minimal vim-common vim-runtime vim-tiny
Suggested packages:
  gpm python2.7-doc binfmt-support ctags vim-doc vim-scripts indent
The following NEW packages will be installed:
  libgpm2 libpython2.7 vim vim-runtime
The following packages will be upgraded:
  python2.7 python2.7-minimal vim-common vim-tiny
4 upgraded, 4 newly installed, 0 to remove and 189 not upgraded.
Need to get 13.4 MB/13.4 MB of archives.
After this operation, 28.1 MB of additional disk space will be used.
Do you want to continue [Y/n]? Y
Get:1 http://us.archive.ubuntu.com/ubuntu/ precise-updates/main python2.7 amd64 2.7.3-0
15% [1 python2.7 1,942 kB/2,678 kB 73%]
```

Run command 'vagrant halt' to stop/shutdown the virtual machine:

```
D:\A_semester_5\CICD\first-vagrant>vagrant halt
==> default: Attempting graceful shutdown of VM...
```

Virtual machine is in powered off state now:



Tools

> New group



first-vagrant_default_1606066568758_20139
Powered Off



Take



Delete



Restore



Properties



Clone



Settings



Discard



Start

Name



Current State