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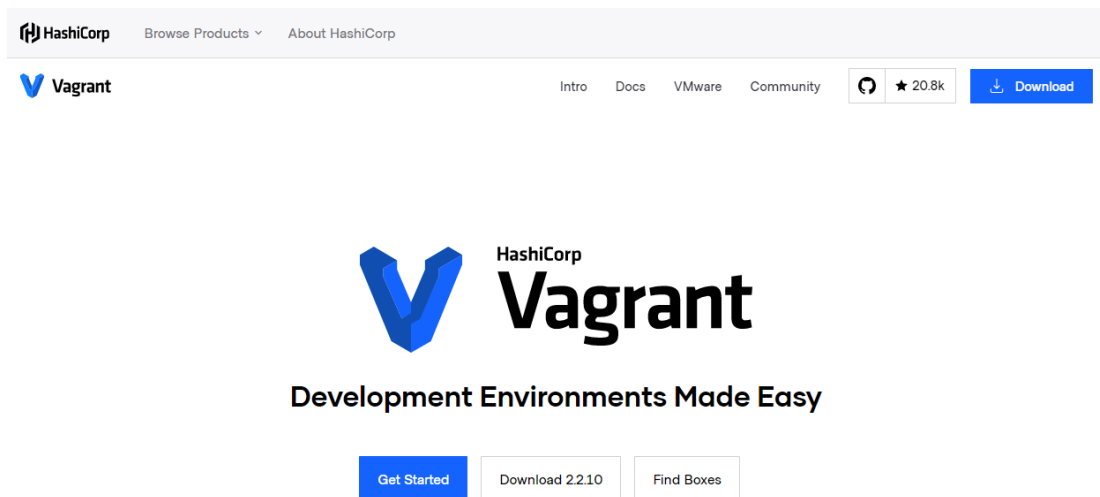
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CICD LAB EXPERIMENT 11

Setting up Vagrant on your Machine


STEP1) First of all you have to [download](#) Vagrant.




Press the “Download 2.2.10” button out of the three options. Remember to check the version of the virtual box you are using.



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Download

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VirtualBox

Vagrant comes with support out of the box for [VirtualBox](#), a free, cross-platform consumer virtualization product.

The VirtualBox provider is compatible with VirtualBox versions [4.0.x](#), [4.1.x](#), [4.2.x](#), [4.3.x](#), [5.0.x](#), [5.1.x](#), [5.2.x](#), [6.0.x](#), and [6.1.x](#). Other versions are unsupported and the provider will display an error message. Please note that beta and pre-release versions of VirtualBox are not supported and may not be well-behaved.

VirtualBox must be installed on its own prior to using the provider, or the provider will display an error message asking you to install it. VirtualBox can be installed by [downloading](#) a package or installer for your operating system and using standard procedures to install that package.

Use the navigation to the left to find a specific VirtualBox topic to read more about.

This will download the .msi file on your local machine. Follow the steps to install the complete setup on your machine. As soon as you are done it will ask you to restart your laptop.

Step2) After you have restarted your machine, you need to check if the setup works properly.

Go to the windows command-prompt and make a folder on the same location as your vagrant by typing the command

```
--mkdir <FOLDER_NAME>
```

```
CU vagrant@ubuntu-xenial: ~
Microsoft Windows [Version 10.0.19041.572]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\Dell>cd ..

C:\Users>cd ..

C:\>mkdir
The syntax of the command is incorrect.

C:\>mkdir cisd

C:\>cd cisd

C:\cisd>vagrant init ubuntu/ubuntu-20.04
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.

C:\cisd>
C:\cisd>vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Box 'ubuntu/xenial64' could not be found. Attempting to find and install...
    default: Box Provider: virtualbox
    default: Box Version: >= 0
==> default: Loading metadata for box 'ubuntu/xenial64'
    default: URL: https://vagrantcloud.com/ubuntu/xenial64
==> default: Adding box 'ubuntu/xenial64' (v20201102.0.0) for provider: virtualbox
    default: Downloading: https://vagrantcloud.com/ubuntu/boxes/xenial64/versions/20201102.0.0/providers/virtualbox.box
Download redirected to host: cloud-images.ubuntu.com
    default:
==> default: Successfully added box 'ubuntu/xenial64' (v20201102.0.0) for 'virtualbox'!
==> default: Importing base box 'ubuntu/xenial64'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'ubuntu/xenial64' version '20201102.0.0' is up to date...
==> default: Setting the name of the VM: cisd_default_1604388706799_88352
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
This option can be disabled globally with an environment variable:
```

Step3) Go inside the directory you just created and type

```
--vagrant init Ubuntu/Ubuntu-20.04
```

This command is going to initialise the directory for Vagrant and create a file called “VagrantFile” if not created already. Ubuntu/Ubuntu-20.04 will create the base vagrant file for a virtual environment called Ubuntu.

```
C:\cicd>vagrant init ubuntu/ubuntu-20.04
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.
```

Step4) After initialising Vagrant in current directory, go to the location of the directory and open the “VagrantFile” that must be the single file to exist. Make some changes like:

```
12
13 # Every Vagrant development environment requires a box. You can
14 # boxes at https://vagrantcloud.com/search.
15 config.vm.box = "Ubuntu/Ubuntu20.04"
```



```
13 # Every Vagrant development environment requires a box. You can
14 # boxes at https://vagrantcloud.com/search.
15 config.vm.box = "Ubuntu/xenial64"
```

Step5) Now go back to the cmd and start the Vagrant by typing a command that goes like:

```
--vagrant up
```

```
C:\cicd>
C:\cicd>vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Box 'ubuntu/xenial64' could not be found. Attempting to find and install...
    default: Box Provider: virtualbox
    default: Box Version: >= 0
==> default: Loading metadata for box 'ubuntu/xenial64'
    default: URL: https://vagrantcloud.com/ubuntu/xenial64
==> default: Adding box 'ubuntu/xenial64' (v20201102.0.0) for provider: virtualbox
    default: Downloading: https://vagrantcloud.com/ubuntu/boxes/xenial64/versions/20201102.0.0/providers/virtualbox.box
Download redirected to host: cloud-images.ubuntu.com
    default:
==> default: Successfully added box 'ubuntu/xenial64' (v20201102.0.0) for 'virtualbox'!
==> default: Importing base box 'ubuntu/xenial64'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'ubuntu/xenial64' version '20201102.0.0' is up to date...
==> default: Setting the name of the VM: cicd_default_1604388706799_88352
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
This option can be disabled globally with an environment variable:
```

Step6) To get an access for the instance created by Vagrant, in this case inside the virtual machine we need to activate the ssh and to do that. Typ ethe command as follows:

```
--vagrant ssh
```

Now, go to the virtual box to see the instance.

