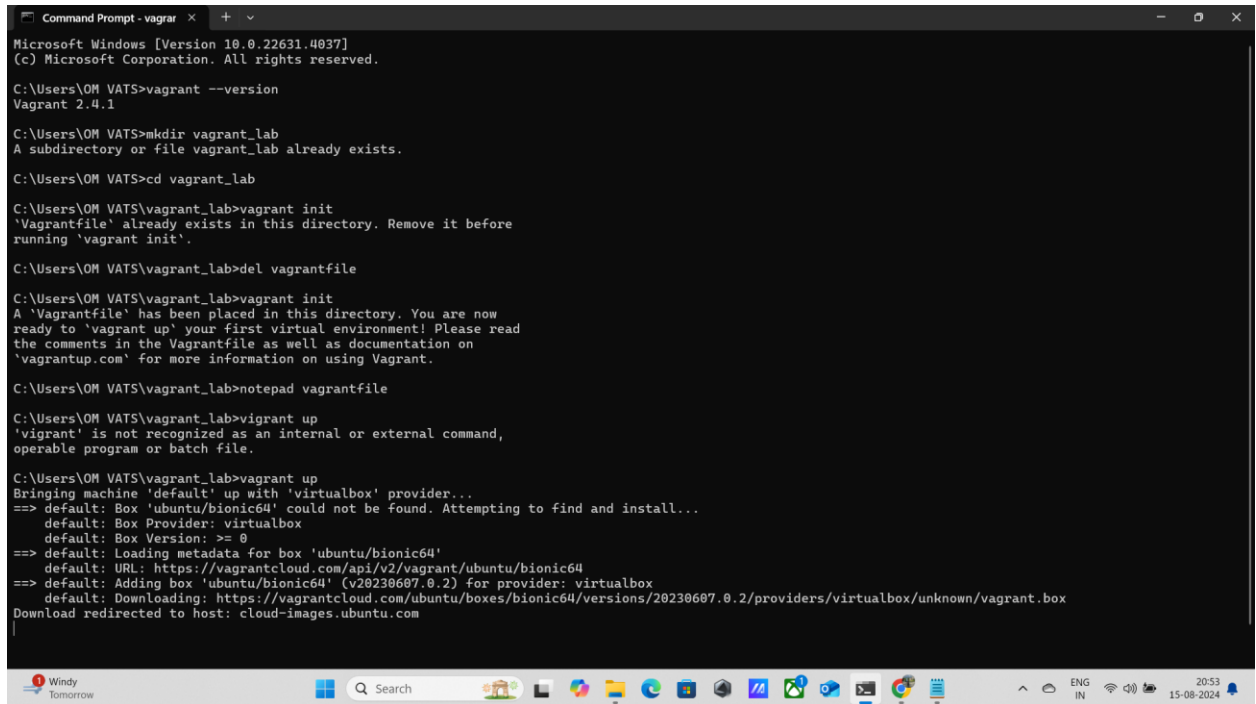


EXPERIMENT 1

Introduction to vagrant and vagrant file:

1. Setting up the environment
2. Creating a new vagrant project
3. Initialize the vagrant
4. Understanding the vagrantfile
5. Launching and managing the virtual machine



```
Microsoft Windows [Version 10.0.22631.4037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\OM VATS>vagrant --version
Vagrant 2.4.1

C:\Users\OM VATS>mkdir vagrant_lab
A subdirectory or file vagrant_lab already exists.

C:\Users\OM VATS>cd vagrant_lab

C:\Users\OM VATS\>vagrant init
'Vagrantfile' already exists in this directory. Remove it before
running 'vagrant init'.

C:\Users\OM VATS\>del vagrantfile

C:\Users\OM VATS\>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.

C:\Users\OM VATS\>notepad vagrantfile

C:\Users\OM VATS\>vagrant up
'vagrant' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\OM VATS\>vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Box 'ubuntu/bionic64' could not be found. Attempting to find and install...
default: Box Provider: virtualbox
default: Box Version: >= 0
==> default: Loading metadata for box 'ubuntu/bionic64'
default: URL: https://vagrantcloud.com/api/v2/vagrant/ubuntu/bionic64
==> default: Adding box 'ubuntu/bionic64' (v20230607.0.2) for provider: virtualbox
default: Downloading: https://vagrantcloud.com/ubuntu/boxes/bionic64/versions/20230607.0.2/providers/virtualbox/unknown/vagrant.box
Download redirected to host: cloud-images.ubuntu.com
```

Command Prompt

```
default:
==> default: Successfully added box 'ubuntu/bionic64' (v20230607.0.2) for 'virtualbox'!
==> default: Importing base box 'ubuntu/bionic64'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'ubuntu/bionic64' version '20230607.0.2' is up to date...
==> default: Setting the name of the VM: vagrant_lab_default_1723735458772_3803
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:

VAGRANT_DISABLE_VBOXSYMLINKCREATE=1

or on a per folder basis within the Vagrantfile:

config.vm.synced_folder '/host/path', '/guest/path', SharedFoldersEnableSymlinksCreate: false
==> 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: Running 'pre-boot' VM customizations...
==> 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: Warning: Connection aborted. Retrying...
==> default: Warning: Connection reset. Retrying...
==> default: Vagrant insecure key detected. Vagrant will automatically replace
==> default: this with a newly generated keypair for better security.
==> 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!
```

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Oracle VM VirtualBox Manager

File Machine Help

Tools

ubuntu 24.04 LTS Powered Off

vagrant_lab_default_1723735458772_3803 Running

New Add Settings Discard Start

General

Name: ubuntu 24.04 LTS
Operating System: Ubuntu (64-bit)

System

Base Memory: 10889 MB
Processors: 7
Boot Order: Floppy, Optical, Hard Disk
Acceleration: Nested Paging, KVM Paravirtualization

Display

Video Memory: 16 MB
Graphics Controller: VMSVGA
Remote Desktop Server: Disabled
Recording: Disabled

Storage

Controller: IDE
IDE Secondary Device 0: [Optical Drive] Empty
Controller: SATA
SATA Port 0: ubuntu 24.04 LTS.vdi (Normal, 25.00 GB)

Audio

Host Driver: Default
Controller: ICH AC97

Network

Adapter 1: Intel PRO/1000 MT Desktop (NAT)

USB

USB Controller: OHCI, EHCI
Device Filters: 0 (0 active)

Shared folders

None

Description

None

Preview

ubuntu 24.04 LTS

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