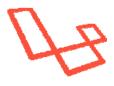


SETTING UP THE ENVIRONMENT



OBJECTIVES

- > Identify components to set up the development environment
- ➤ Learn to set up PHP and Composer
- ➤ Understand the basics of VirtualBox, Vagrant, Homestead, and Laravel
- > Learn how to verify installations and versions of various software

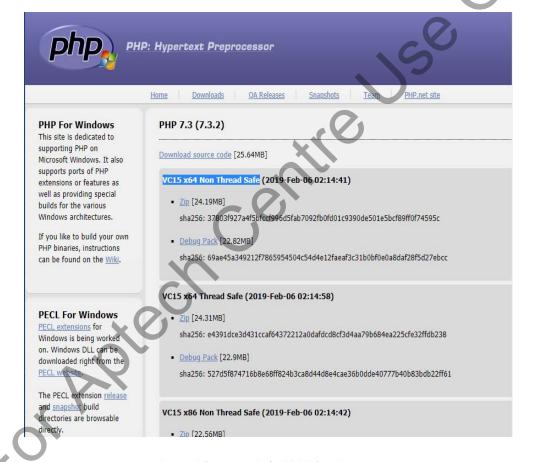


SETTING UP THE ENVIRONMENT

List of components

- PHP
- Composer
- VirtualBox
- Vagrant
- Git Bash
- Homestead

SETTING UP PHP



Tto

SETTING UP COMPOSER (1-3)

Download Composer Latest: v1.8.5

Windows Installer

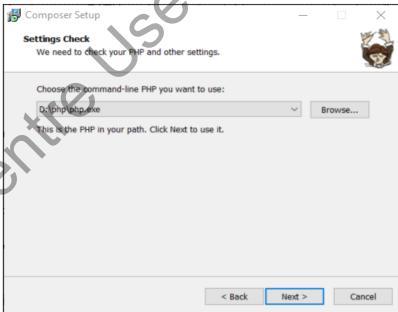
The installer will download composer for you and set up your PATH environment variable so you can simply call <code>composer</code> from any directory.

Download and run Composer-Setup.exe - it will install the latest composer version whenever it is executed.



SETTING UP COMPOSER (2-3)





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SETTING UP COMPOSER (3-3)

```
PS C:\Users\ghost> composer -V
Composer version 1.8.5 2019-04-09 17:46:47
PS C:\Users\ghost>
```

4

INSTALLING VIRTUALBOX (1-3)

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

If you're looking for the latest VirtualBox 5.2 packages, see VirtualBox 5.2 builds.

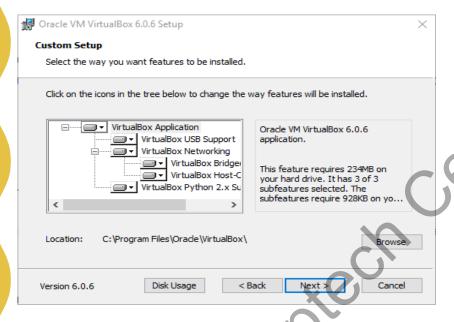
VirtualBox 6.0.6 platform packages

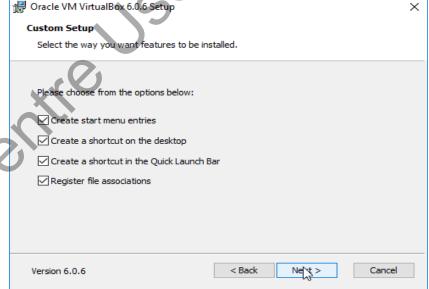
- 🖻 Windows hosts
- BOS X hosts
- Linux distributions
- ➡Solaris hosts





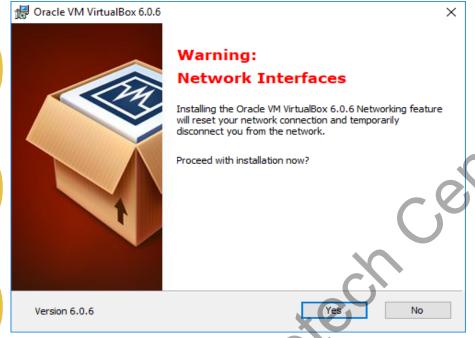
INSTALLING VIRTUALBOX (2-3)





PB

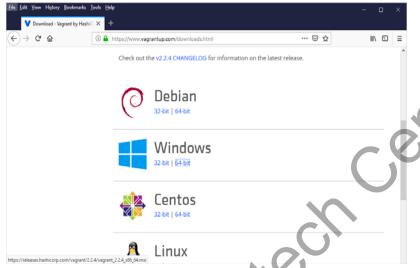
INSTALLING VIRTUALBOX (3-3)

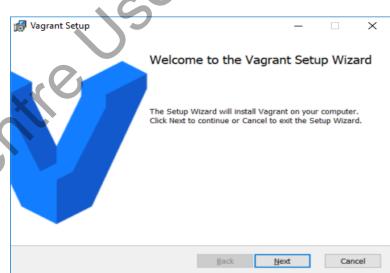




PB

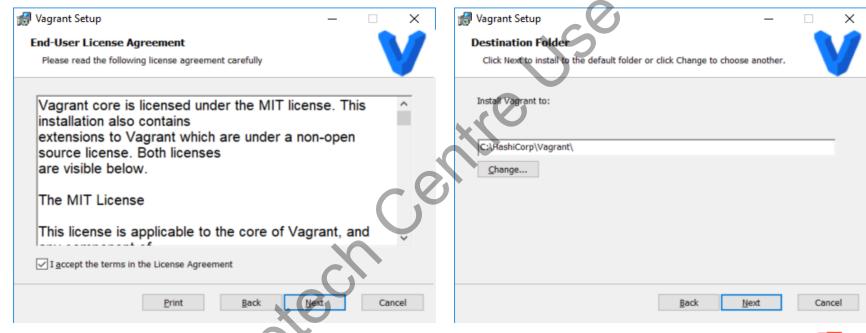
INSTALLING VAGRANT (1-4)





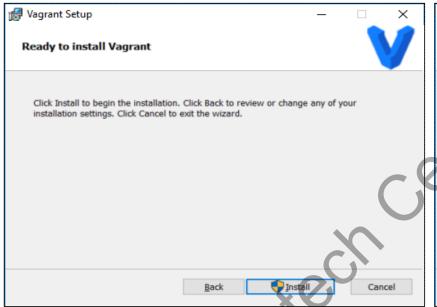
P3

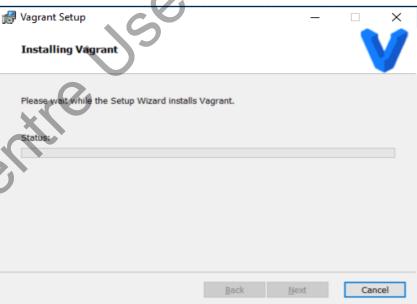
INSTALLING VAGRANT (2-4)



PB

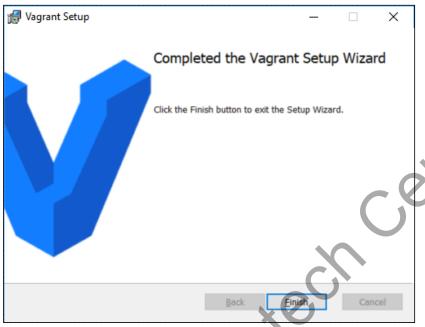
INSTALLING VAGRANT (3-4)

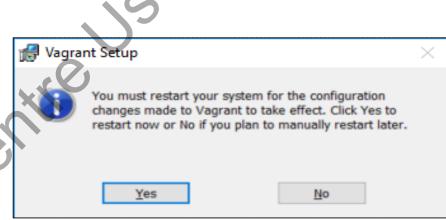




4

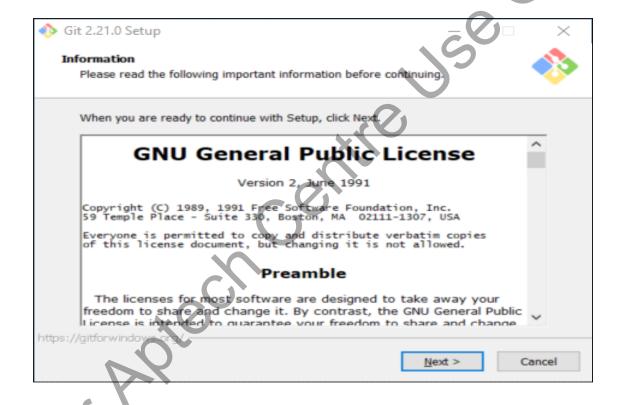
INSTALLING VAGRANT (4-4)





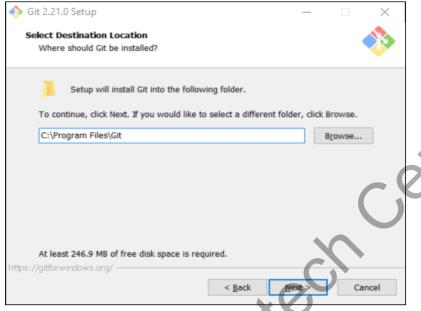
PB

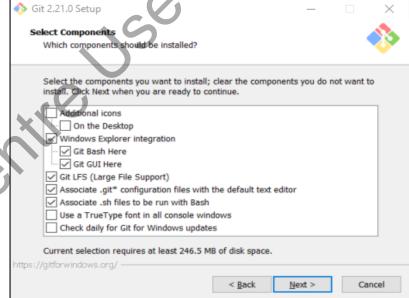
SETTING UP GITBASH (1-7)



4

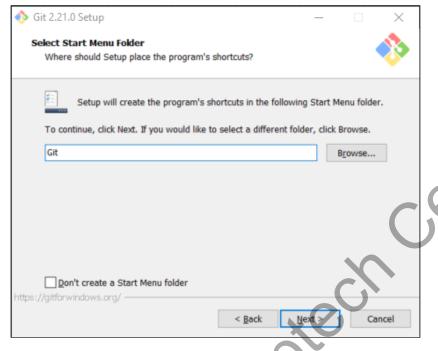
SETTING UP GITBASH (2-7)

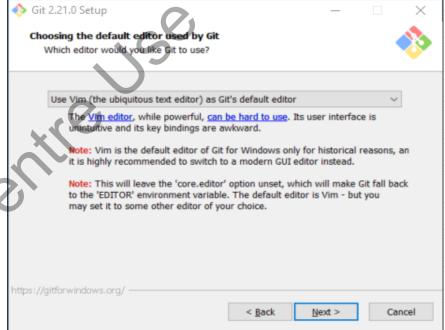




P3

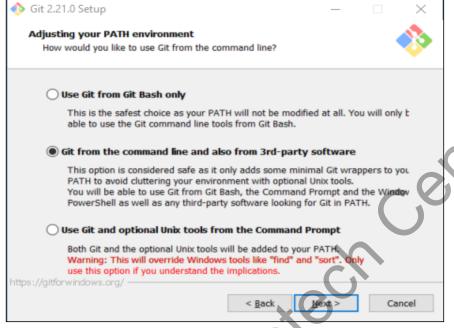
SETTING UP GITBASH (3-7)

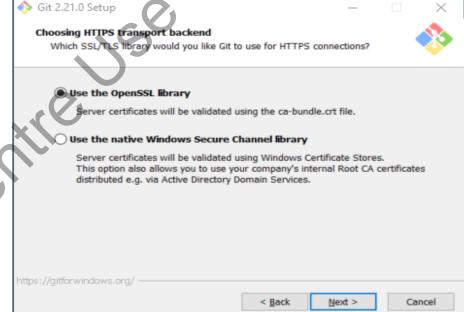




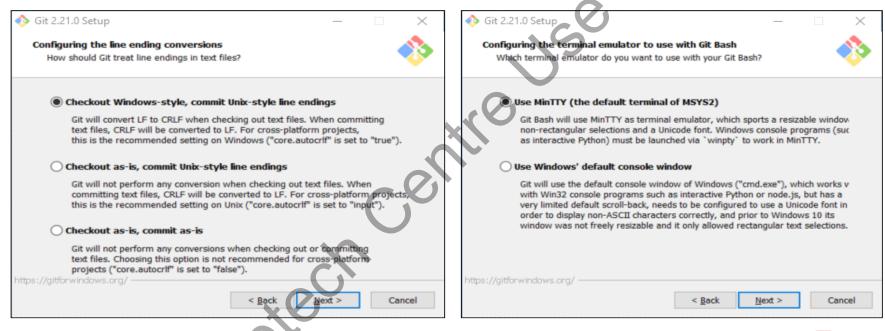
PB

SETTING UP GITBASH (4-7)



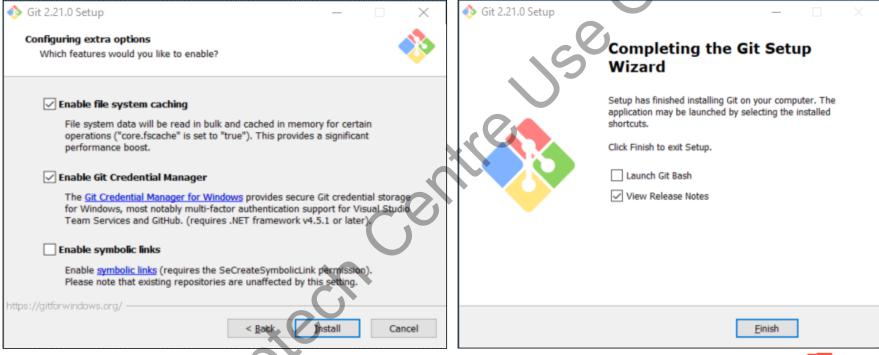


SETTING UP GITBASH (5-7)

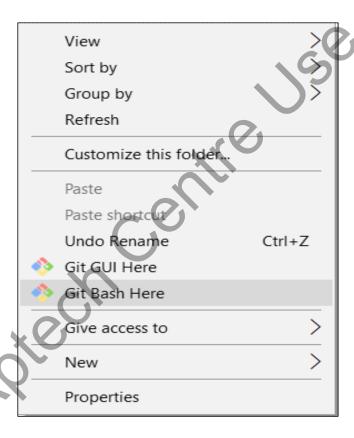


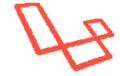
Ag

SETTING UP GITBASH (6-7)



SETTING UP GITBASH (7-7)





SETTING UP HOMESTEAD (1-4)

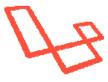
This box can work with multiple providers! The providers that it can work with are listed below. Please review the list and choose the provider you will be working with.

- 1) hyperv
- parallels
- virtualbox
- 4) vmware_desktop

mkdir homestead

cd homestead

composer require laravel/homestead --dev
.\vendor\bin\homestead make



SETTING UP HOMESTEAD (2-4)

ssh-keygen -t rsa -C "tester@homestead.test"

```
MINGW64:/d/Work/03 - Projects/Zeex/Laravel Framework for Web Applications
                                                                                                                                       ost@MSI MINGW64 /d/Work/03 - Projects/Zeex/Laravel Framework for Web Applicati
$ ssh-keygen -t rsa -C "tester@homestead.test"
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/Ghost/.ssh/id_rsa):
c/Users/Ghost/.ssh/id_rsa already exists.
Overwrite (y/n)? Y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/Ghost/.ssh/id_rsa.
our public key has been saved in /c/Users/Ghost/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:QFEqXRktQ8bmBuJ24cWXqR5I9AdqiTRGD+WSA4lqzkQ tester@homestead.test
The key's randomart image is:
 ---[RSA 2048]----+
 ..o*o=*B+ o
 .E.+.X+BO.=
 o .*+XB.=.
 .0 0=+.=.
 ----[SHA256]----+
   st@MSI MINGW64 /d/Work/03 - Projects/Zeex/Laravel Framework for Web Applications
```

D.B

SETTING UP HOMESTEAD (3-4)

```
ip: 192.168.10.10
memory: 1024
cpus: 1
provider: virtualbox
authorize: C:\Users\Ghost\.ssh\id_rsa.pub
    - C:\Users\Ghost\.ssh\id_rsa
folders:
        map: 'D:\Work\Laravel Framework for Web
Applications\homestead'
        to: /home/vagrant/code
sites:
        map: homestead.test
        to: /home/vagrant/code/public
databases:
    - homestead
name: homestead
hostname: homestead
```

D-B

SETTING UP HOMESTEAD (4-4)

vagrant up

D-B

SETTING UP LARAVEL/VERIFYING INSTALLATION

laravel new <project-name>

vagrant ssh

```
// A sugrant@homestead:
// A homestead vagrant ssh
// Vagrant@127.0.0.1's password:
// Welcome to Ubuntu 18.04.1 LTS (GNU/Linux 4.15.0-45-generic x86_64)

// A homestead 8.0.0 released! PHP 7.3 is now the default!
// Settler v7.0.0 released! Make sure you update
// Need PHP 5.6 or 7.0? Homestead 7.x Settler 6.4.0

// O packages can be updated.
// O updates are security updates.
// Vagrant@homestead:
// Settler v3.0.0 released! PHP 7.3 is now the default!
// Settler v4.0.0 released! Make sure you update
// Need PHP 5.6 or 7.0? Homestead 7.x Settler 6.4.0
// O packages can be updated.
// O updates are security updates.
// Vagrant@homestead:
// Settler v4.0.0 released!
// Need PHP 5.6 or 7.0? Homestead 7.x Settler 6.4.0
// O packages can be updated.
// O updates are security updates.
// Vagrant@homestead:
// Settler v4.0.0 released!
// Need PHP 5.6 or 7.0? Homestead 7.x Settler 6.4.0
// O packages can be updated.
// O updates are security updates.
// O updates are security updates.
// O updates vagrant@homestead:
// Need PHP 5.6 or 7.0? Homestead 7.x Settler 6.4.0
// O packages can be updated.
// O updates are security updates.
// O updates are security updates.
// Need PHP 5.6 or 7.0? Homestead 7.x Settler 6.4.0
// O updates are security updates.
// Need PHP 5.6 or 7.0? Homestead 7.x Settler 6.4.0
// O updates are security updates.
// Need PHP 5.0 or 7.0? Homestead 7.x Settler 6.4.0
// O updates are security updates.
// Need PHP 5.0 or 7.0? Homestead 7.x Settler 6.4.0
// O updates are security updates.
// O updates 2.2 updat
```

DB.

VERIFYING VERSIONS (1-2)

vagrant@homestead:~\$ php --version

```
PHP 7.3.1-1+ubuntu18.04.1+deb.sury.org+1 (cli) (built: Jan 13 2019 10:19:33) ( NTS )
Copyright (c) 1997-2018 The PHP Group
Zend Engine v3.3.1, Copyright (c) 1998-2018 Zend Technologies
   with Zend OPcache v7.3.1-1+ubuntu18.04.1+deb.sury.org+1, Copyright (c) 1999-2018, by Z
end Technologies
   with blackfire v1.24.3~linux-x64-non_zts73, https://blackfire.io, by Blackfire
```

4

VERIFYING VERSIONS (2-2)

vagrant@homestead:~\$ composer -V

Composer version 1.8.4 2019-02-11 10:52:10

vagrant@homestead:~\$ sqlite3 -version

3.22.0 2018-01-22 18:45:57 0c55d179733b46d8d0ba4 d88e01a25e10677046ee3da1d5b1581e86726f2alt1

A.

SUMMARY

- Components in an environment to develop Web applications with Laravel include PHP, Composer, Virtual Box, Vagrant, Git Bash, and Homestead.
- ➤ Composer is a dependency management tool for PHP.
- > VirtualBox is a free and open source hypervisor that will allow running guest VMs, such as the Homestead environment.
- ➤ Vagrant is an automation tool for building and managing virtual machine environments. Homestead is a vagrant box.
- ➤ Git Bash is a shell that comes along with Git for Windows. It helps to use git commands and provides Unix-type commands that can be run on Windows.
- ➤ Homestead is a virtual environment that provides resources to efficiently code Web applications in Laravel using PHP.
- ➤ After installing the components, verify the installation and check version number by sshing into the newly deployed Homestead environment.

