

## Programming Assignment 1 – The Basics

First step in building your Web Application is to set up development environment. In order to provide everyone the same educational experience, we will use VirtualBox as the hypervisor. It is free and well supported within development communities.

### 1. Install VirtualBox

<https://www.virtualbox.org/wiki/Downloads>

Download and install **VirtualBox** on your computer.

### 2. Install Vagrant

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

Download and install **Vagrant** on your computer.

### 3. Install Homestead<sup>1</sup>

```
cd ~  
git clone https://github.com/laravel/homestead.git Homestead
```

When you complete cloning Homestead, you will need to run `init.sh` to initialize the configuration file, **Homestead.yaml**.

```
cd ~/Homestead  
bash init.sh
```

This file will be placed in `~/.homestead/Homestead.yaml`.

### 4. Configure Homestead

Open configuration file `~/.homestead/Homestead.yaml` with your favorite editor.

```
nano ~/.homestead/Homestead.yaml
```

Make sure that provider is set to `virtualbox`.

```
provider: virtualbox
```

### 5. Run Homestead

When you run your Vagrant box the first time, you will need to initialize it.

```
cd ~/.homestead  
vagrant init
```

After Vagrant finishes it's initialization procedure, you can finally power it up.

```
vagrant up
```

## 6. Verify Vagrant box is online

If you are using default settings for Vagrant, it will be configured to the following ip address: **192.168.10.10**.

Open your browser and visit `http://192.168.10.10/`

You will see **“No file input specified.”**. That’s because the directory configured for Laravel has not been created yet.

## 7. Install Laravel onto your newly created Vagrant box

```
vagrant ssh
cd ~/Code
rm -rf Laravel
composer create-project --prefer-dist laravel/laravel Laravel
```

By default, Vagrant creates Laravel directory, since it is configured as default virtual host. We will remove this directory and re-create it using composer installer.

## 8. ‘Hello World’

Locate `routes.php` in `~/Code/Laravel/app/Http/routes.php`  
Edit `routes.php`

From:

```
Route::get('/', function () {
    return view('welcome');
});
```

To:

```
Route::get('/', function () {
    return 'Hello from name';
});
```

Where your name goes in name.

## What to submit:

Please fork ***NYU-CS6015/Programming-Assignments***. Place your `routes.php` file in **Programming Assignment 1** directory. **Do not forget to commit** your programming assignment!

## Citations:

1. Laravel Homestead. (n.d.). Retrieved January 23, 2016, from <https://laravel.com/docs/master/homestead>