

En MVC-Applikation

Jag tänker gå igenom hur vi utvecklar en liten MVC-applikation med hjälp av Composer i Homestead.

Domännamn

Först behöver vi uppdatera filen C:\Windows\System32\drivers\etc\hosts med vårt nya projekt, genom att starta notebook som administratör.

På Mac OS använder vi sudo och vi:

```
sudo vi \private\etc\hosts
```

eller

```
sudo vi etc\hosts
```

I Vi går vi med piltangenterna till den position där vi vill lägga till en ny rad. Då trycker vi tangenten i (insert) och skriver den nya rader. Därefter Escape och :wq (write and quit).

hosts

```
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#       102.54.94.97       rhino.acme.com           # source server
#       38.25.63.10       x.acme.com               # x client host
# localhost name resolution is handled within DNS itself.
#       127.0.0.1         localhost
#       ::1               localhost
192.168.10.10 homestead.test
192.168.10.10 test.mvc
```

Därefter öppnar vi filen i Homestead.yaml i vår Homestead-katalog och lägger till sökvägen till vår domän.

Homestead.yaml

```
ip: "192.168.10.10"
memory: 2048
cpus: 2
provider: virtualbox

folders:
  - map: C:\Users\Stefan Bjornander\Documents\homestead\code
    to: /home/vagrant/code
```

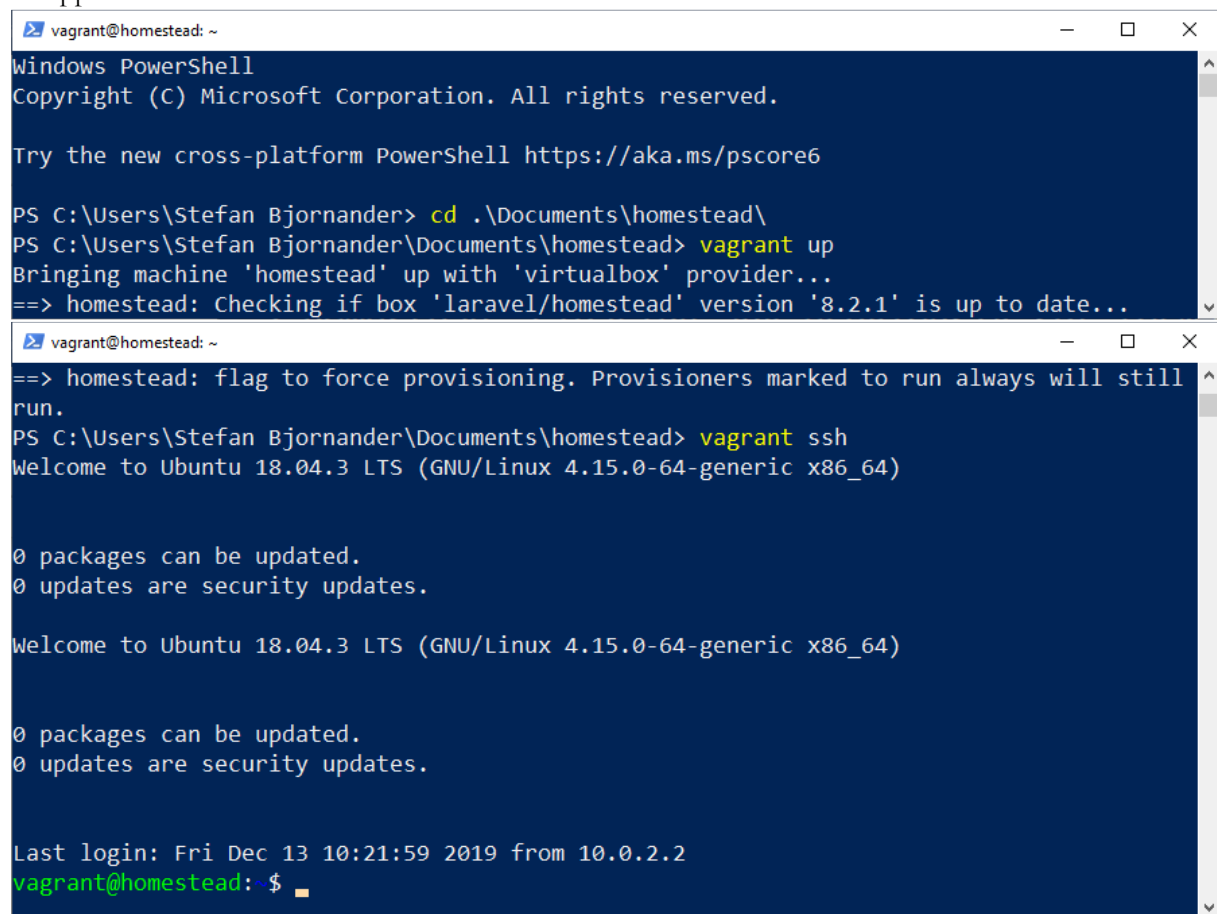
```
sites:
  - map: homestead.test
    to: /home/vagrant/code/public
  - map: test.mvc
    to: /home/vagrant/code/public/test_mvc

databases:
  - homestead

features:
  - mariadb: false
  - ohmyzsh: false
  - webdriver: false
```

PowerShell

Vi öppnar ett fönster i PowerShell i Windows eller bash i Mac OS.



```
vagrant@homestead: ~
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Stefan Bjornander> cd .\Documents\homestead\
PS C:\Users\Stefan Bjornander\Documents\homestead> vagrant up
Bringing machine 'homestead' up with 'virtualbox' provider...
==> homestead: Checking if box 'laravel/homestead' version '8.2.1' is up to date...

vagrant@homestead: ~
==> homestead: flag to force provisioning. Provisioners marked to run always will still
run.
PS C:\Users\Stefan Bjornander\Documents\homestead> vagrant ssh
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-64-generic x86_64)

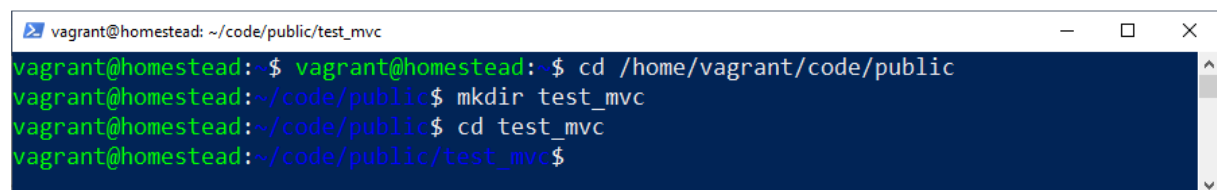
0 packages can be updated.
0 updates are security updates.

Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-64-generic x86_64)

0 packages can be updated.
0 updates are security updates.

Last login: Fri Dec 13 10:21:59 2019 from 10.0.2.2
vagrant@homestead:~$
```

Vi går till vår public-katalog, i mitt fall /home/vagrant/code/public. Därefter skapar en ny katalog för vårt projekt, som jag kallar test_mvc, och går ni i den katalogen.



```
vagrant@homestead: ~/code/public/test_mvc
vagrant@homestead:~$ vagrant@homestead:~$ cd /home/vagrant/code/public
vagrant@homestead:~/code/public$ mkdir test_mvc
vagrant@homestead:~/code/public$ cd test_mvc
vagrant@homestead:~/code/public/test_mvc$
```

Vi laddar in bibliotekskod för Twig med hjälp av Composer.

```
vagrant@homestead: ~/code/public/test_mvc
vagrant@homestead:~/code/public/test_mvc$ composer require "twig/twig:^2.0"
1/10: http://repo.packagist.org/p/provider-2019-01$1d684176b35beea328f4690daf131dd8058a3aa57ed1c2d7de0e8ad9ee5d1d65.json
2/10: http://repo.packagist.org/p/provider-2014$56b6fbd47495ddb582eb5025016992f4e78d9ee25ac7707882b1bb87bc27989.json
3/10: http://repo.packagist.org/p/provider-latest$b280894125d9fa9ad67477ddbb37eb008d11056e1c3e3256d8c6124d632fea4b.json
4/10: http://repo.packagist.org/p/provider-2015$8530b3832d2b6963360650e3d2d22883320f54f1b789fa378e88cb31dfe76091.json
5/10: http://repo.packagist.org/p/provider-2019-07$a65ed47950cd155981f22ee61d01de9f2dbd524ac8ba4a566fef11c3a9561897.json
6/10: http://repo.packagist.org/p/provider-2019-04$521d3b7d7b3543589f138625102d39db8a47f245f1692c9e73c47468b74c7cc2.json
7/10: http://repo.packagist.org/p/provider-2019-10$75a794bbcf3879acb8caf3c6a45a39b8155fbfd3db9853bc32c9b8089cd0cb1e.json
8/10: http://repo.packagist.org/p/provider-2017$080965516aebc29ea431b88840c6b24cf1e12481913e09ed4c423581bc2d86bf.json
9/10: http://repo.packagist.org/p/provider-2016$d4fafed83db90d00ca95f227a5e9345b679a0d7942583bb1159eb65b2451499e.json
10/10: http://repo.packagist.org/p/provider-2018$48073909e27df0e3e2adfd2a463e551a71c2d62af6580b5bad6bce3127ece310.json
Finished: success: 10, skipped: 0, failure: 0, total: 10
./composer.json has been updated
1/2: http://repo.packagist.org/p/provider-latest$5a6cf7cd257d2e0ade565265c0d44cda5da7ac445021251f9c7b428991c17866.json
2/2: http://repo.packagist.org/p/provider-2019-10$3c7543ce9cf2251306807af971bd937eea0e4b6b2342bd87bd311c3377b5558b.json
Finished: success: 2, skipped: 0, failure: 0, total: 2
Loading composer repositories with package information
Updating dependencies (including require-dev)
Package operations: 1 install, 1 update, 0 removals
- Installing symfony/polyfill-php (v1.13.1): Loading from cache
- Updating twig/twig (v2.0.0 => v2.12.2): Checking out d761df1f1c
Writing lock file
Generating autoload files
vagrant@homestead:~/code/public/test_mvc$
```

Detta har bland annat genererat filen composer.json.

Composer.json

```
{
    "require": {
        "twig/twig": "^2.0"
    }
}
```

Vi lägger till några rader för att autoloading skall fungera.

```
{
    "require": {
        "twig/twig": "^2.0"
    },
    "autoload": {
        "psr-4": {
            "Main\\": "src"
        }
    }
}
```

Nu är det dags att skriva vår första källkodsfil i PHP: Index.php.

Index.php

```
<?php
use Main\Router;
use Main\Request;

require_once __DIR__ . "/vendor/autoload.php";
$loader = new Twig_Loader_Filesystem(__DIR__ . "/views");
$view = new Twig_Environment($loader);

$request = new Request();
$router = new Router();
echo $router->route(new Request());
?>
```

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