Web advanced

Software

DE HOGESCHOOL
MET HET NETWERK

Hogeschool PXL – Dep. PXL-IT – Elfde-Liniestraat 26 – B-3500 Hasselt
www.pxl.be - www.pxl.be/facebook

HashiCorp

Vagrant

Development Environments Made Easy

VirtualBox

ubuntu

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Vagrant

```
jan@laptop-jan ~/Desktop/werk/vagrants/vagrant_webadv $ ls
bootstrap.sh  shared  Vagrantfile
```

Vagrantfile: configuratie van virtual machine

Vagrantfile

```
...
Vagrant.configure(VAGRANTFILE_API_VERSION) do |config|
  config.vm.box = "bento/ubuntu-16.04"
  config.vm.network "private_network", ip: "192.168.33.22"
  config.vm.hostname = "webadv"
  config.vm.provider "virtualbox" do |vb|
    vb.memory = "2048"
    vb.customize ["modifyvm", :id, "--cableconnected1", "on"]
  end
  config.vm.synced_folder "shared", "/home/vagrant/"
  config.vm.provision :shell, path: "bootstrap.sh"
end
```

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bootstrap.sh: installatie (apt-get) en configuratie

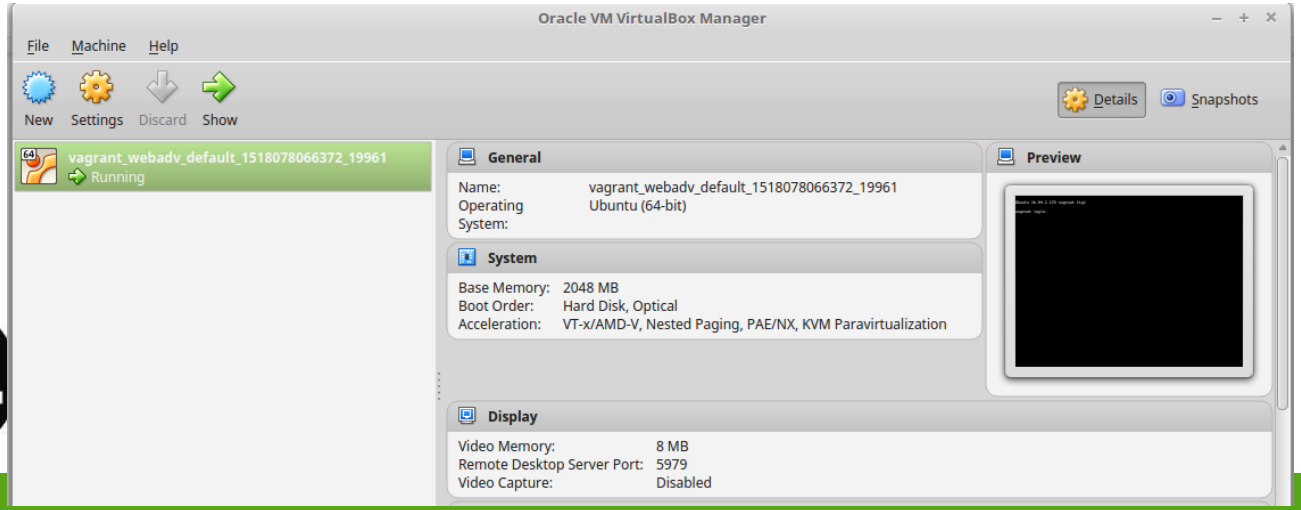
bootstrap.sh

```
#!/bin/bash

…

apt-get update

apt-get install python-software-properties
add-apt-repository ppa:ondrej/php

apt-get -y install php7.2 libapache2-mod-php
apt-get -y install zip unzip php7.2-zip
apt-get -y install apache2

…

service apache2 restart
```

Vagrant

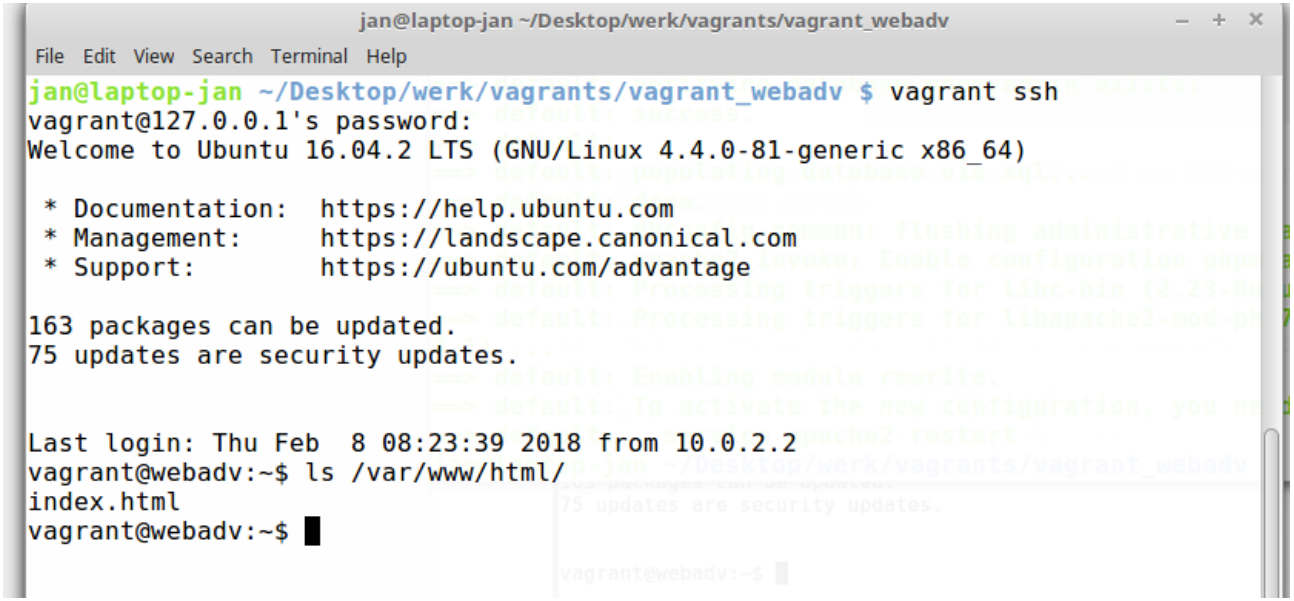
1e keer vagrant up : installatie (daarna: opstarten virtual machine)

```
jan@laptop-jan ~/Desktop/werk/vagrants/vagrant_webadv
File  Edit  View  Search  Terminal  Help
jan@laptop-jan ~/Desktop/werk/vagrants/vagrant_webadv $ vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Importing base box 'bento/ubuntu-16.04'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'bento/ubuntu-16.04' is up to date...
==> default: There was a problem while downloading the metadata for your box
==> default: to check for updates. This is not an error, since it is usually due
==> default: to temporary network problems. This is just a warning. The problem
==> default: encountered was:
==> default:
==> default: The requested URL returned error: 404 Not Found
==> default:
==> default: If you want to check for box updates, verify your network connectio
n
==> default: is valid and try again.
```



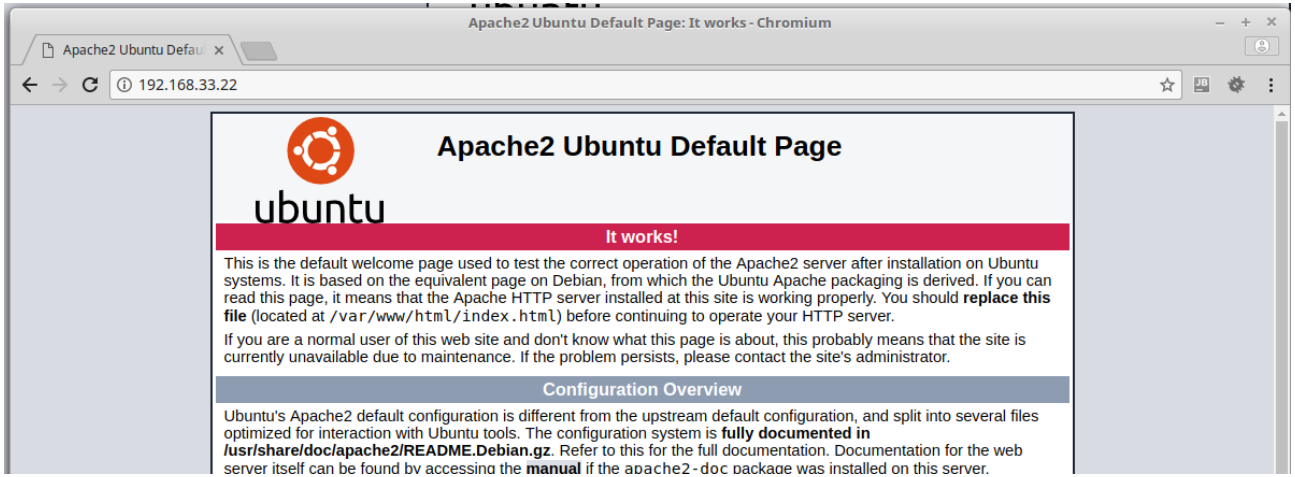
Vagrant

vagrant ssh (Windows: putty)

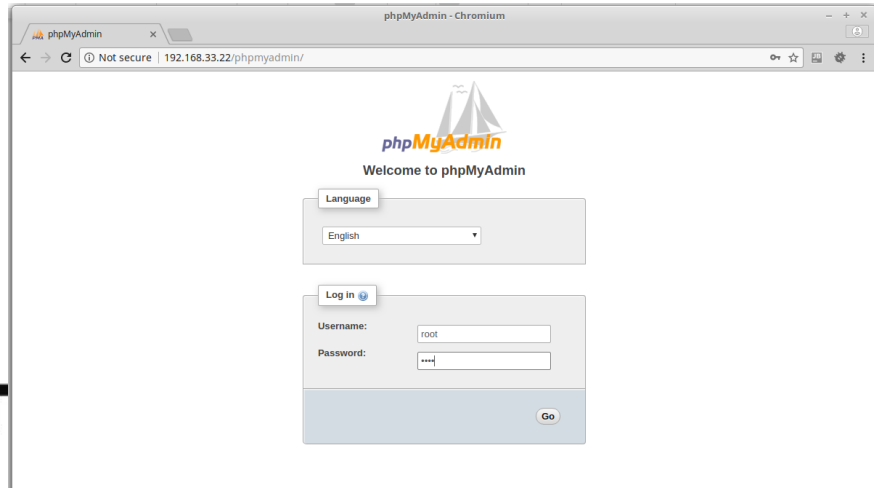


Vagrant

192.168.33.22/index.html = /var/www/html/index.html



192.168.33.22/phpmyadmin



user = root
password = root

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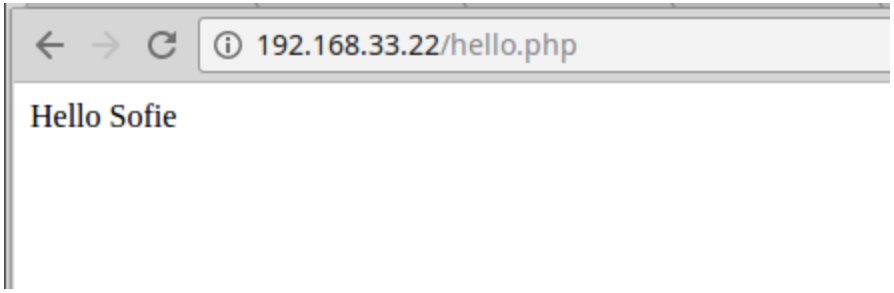
Vagrant

hello.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Hello</title>
</head>
<body>
<?php
$name = 'Sofie';
print( "Hello $name\n" );
?>
</body>
</html>
```

scp hello.php vagrant@192.168.33.22:/var/www/html



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Vagrant

Problemen:

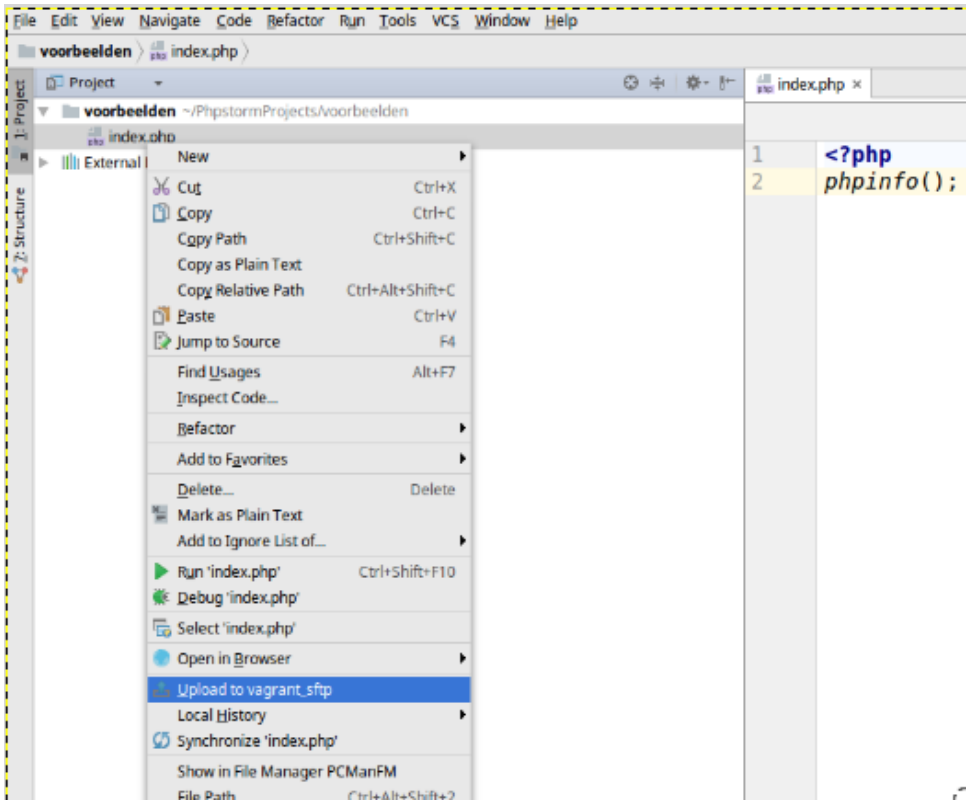
Virtual box werkt niet samen met Hyper-V

Windows: Hyper-V aan/af
https://unclassified.software/en/apps/hypervswitch

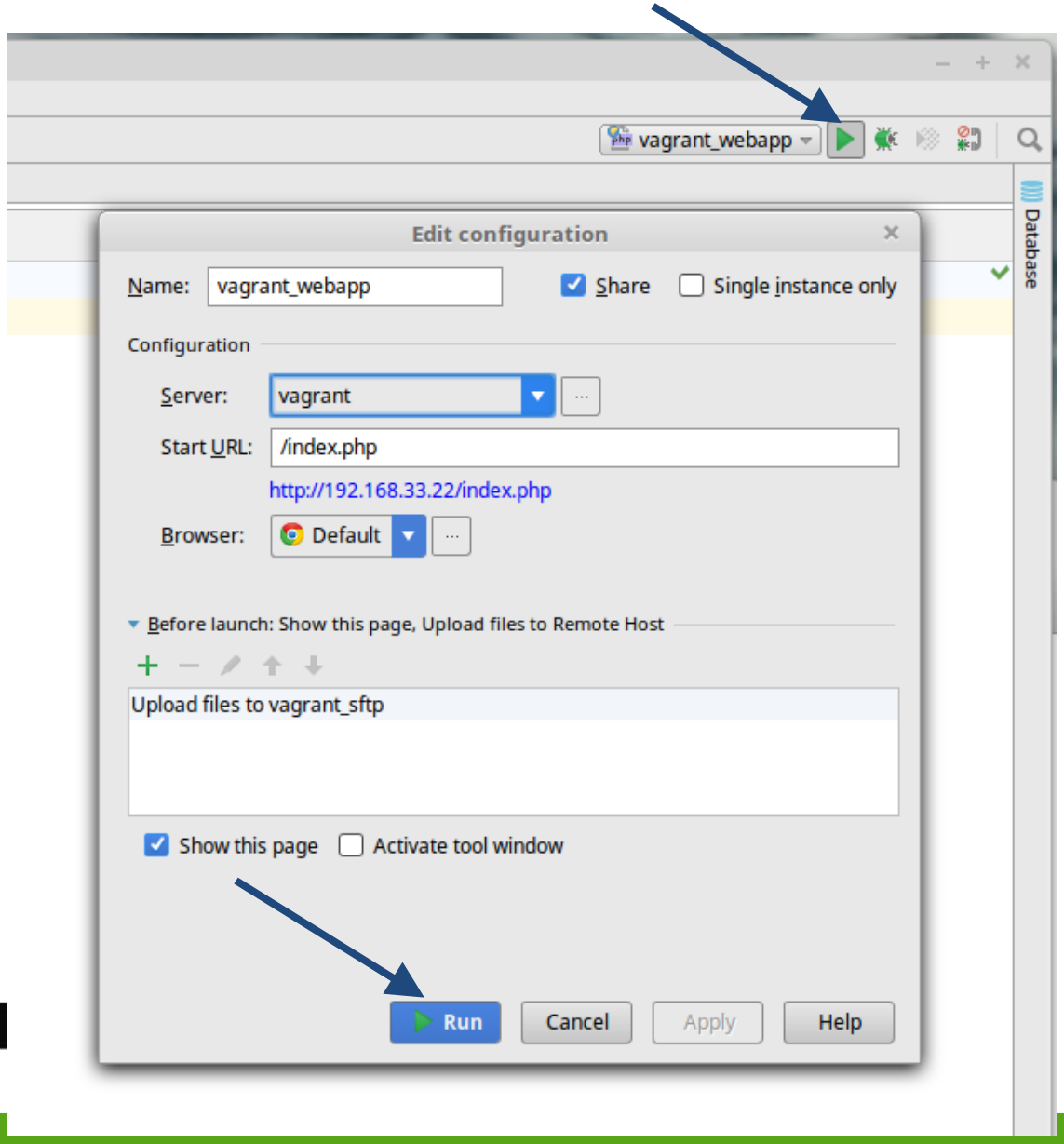
VMWare ondersteuning is betalend in Vagrant

zelf Ubuntu server installeren met daarop SSH-daemon
bootstrap.sh kopiëren naar server en uitvoeren
sudo su -
bash bootstrap.sh

Phpstorm


File Edit View Navigate Code Refactor Run Tools VCS Window Help
voorbeelden index.php
Project
voorbeelden ~/PhpstormProjects/voorbeelden
index.php
External
1: Project
7: Structure
New
Cut Ctrl+X
Copy Ctrl+C
Copy Path Ctrl+Shift+C
Copy as Plain Text
Copy Relative Path Ctrl+Alt+Shift+C
Paste Ctrl+V
Jump to Source F4
Find Usages Alt+F7
Inspect Code...
Refactor
Add to Favorites
Delete... Delete
Mark as Plain Text
Add to Ignore List of...
Run 'index.php' Ctrl+Shift+F10
Debug 'index.php'
Select 'index.php'
Open in Browser
Upload to vagrant_sftp
Local History
Synchronize 'index.php'
Show in File Manager PCManFM
index.php
1 <?php
2 phpinfo();

Phpstorm


vagrant_webapp
Database
Edit configuration
Name: vagrant_webapp
Share
Single instance only
Configuration
Server: vagrant
Start URL: /index.php
http://192.168.33.22/index.php
Browser: Default
Before launch: Show this page, Upload files to Remote Host
Upload files to vagrant_sftp
Show this page
Activate tool window
Run
Cancel
Apply
Help