Joomla pull request, my first time

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About Me

Allon Moritz

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Founder Digital Peak GmbH

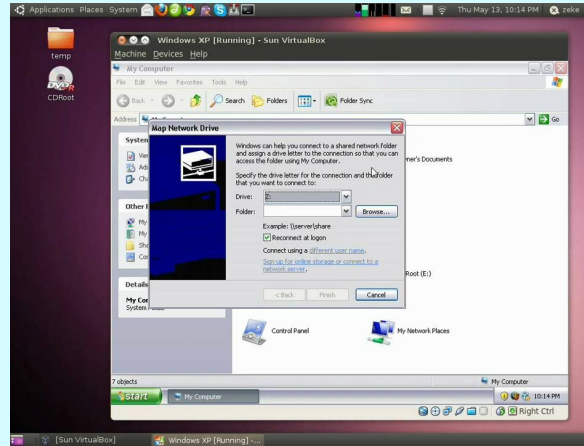Doing Joomla extensions since 2007

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Agenda

- Overview
- VM's, Virtualbox and Vagrant
- Shared files
- Start and access the machine
- Git and github basics
- Code change
- Open Pull request
- Final notes
- Questions

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Overview

- One computer
- Virtual Machine as server
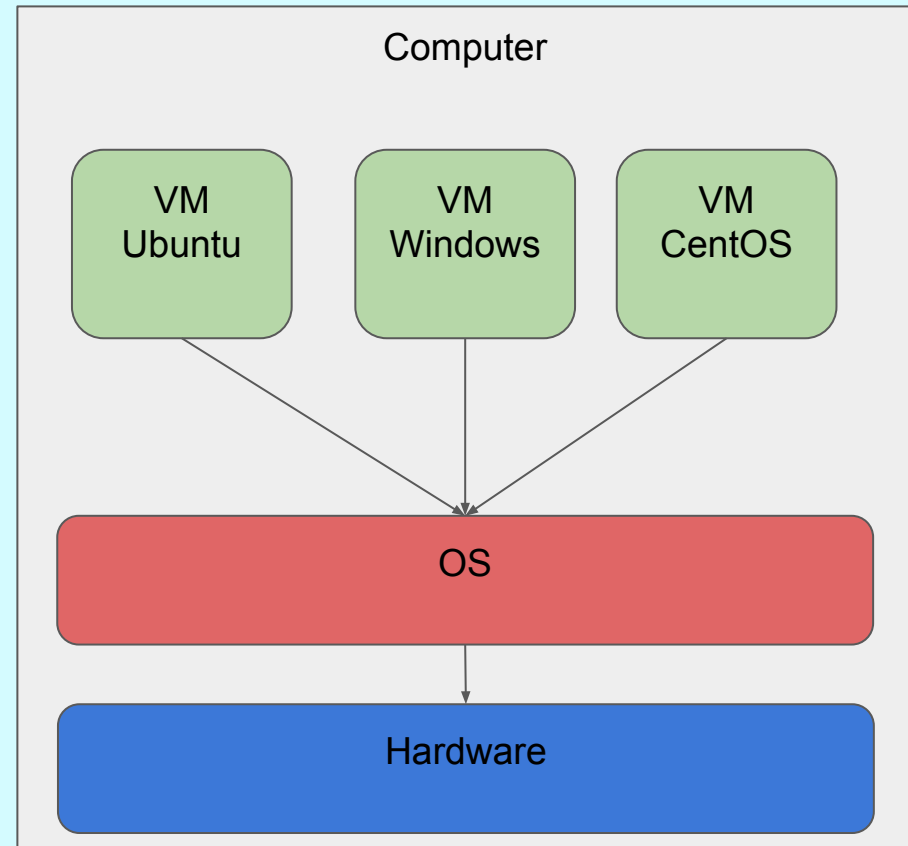- IDE to change files
- Repository to store files

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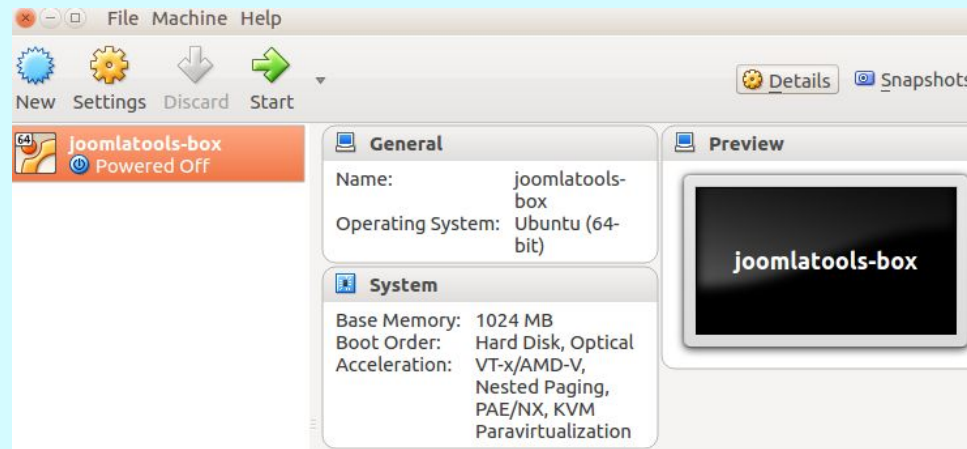# VM's, Virtualbox and Vagrant

- A VM is a computer running on a computer
- Uses Resources of the host
- KVM, Xen, Virtualbox, Qemu, VMWare, Hyper-V
- Configuration and data file on the host filesystem

VM's, **Virtualbox** and Vagrant

- Provider with GUI
- German product
- Sun/Oracle acquired the company behind it, innotek GmbH
- Runs on Linux, OS X, Windows, Solaris and OpenBSD
- Free

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VM's, Virtualbox and **Vagrant**

- Application with command line executables
- A config file describes your machine and the setup
- Build and start your machine based on configuration
- Every restart ensures the configuration and setup
- Rebuild easily

Create and configure lightweight, reproducible, and portable development environments.

https://www.vagrantup.com

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Shared files

- Files on your local computer are available inside the VM
- Configuration option *config.vm.synced_folder "src/", "/srv/website"*
- NFS, RSync, SMB are available
- Bidirectional sync of edits

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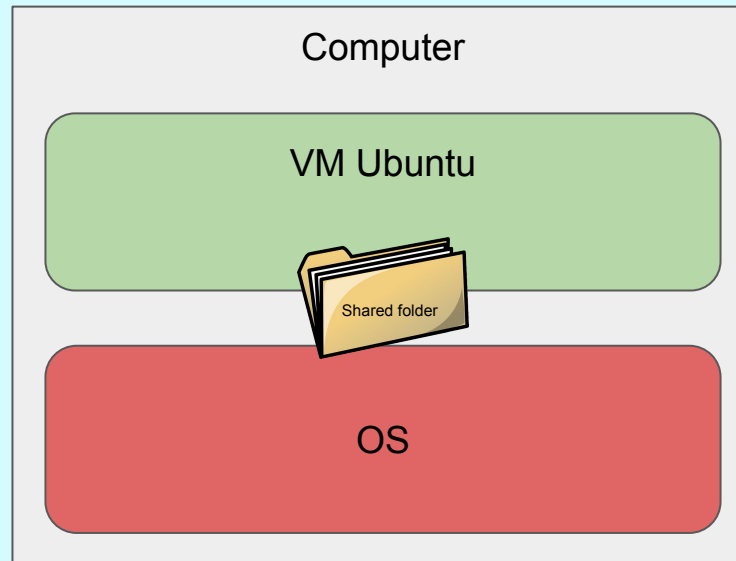
Start and access the machine

- Joomlatools did the hard work for us, providing a full featured vagrant configuration for Joomla development
  www.joomlatools.com/developer/tools/vagrant
- Ubuntu 14.04
- Git, Composer, Joomla installer, PHP, Apache, MySQL are installed
- Create the shared folders file config.custom.yaml inside the Joomlabox folder
  synced_folders:

    /home/vagrant/Projects: /home/johndoe/joomla-projects

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Start and access the machine

- Vagrant and Virtualbox must be installed
- Optional, for better performance install NFS server
- Run the following commands:
  mkdir Joomlabox; cd Joomlabox
  vagrant init joomlatools/box
  vagrant up
- Open a browser and type the url 33.33.33.58, the dashboard should be accessible
- Open a terminal (on Windows putty) and type ssh vagrant@33.33.33.58, password is vagrant

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Woah

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Git and github basics

- Git is a command line app to work with a git repository (eg. github.com)
- Joomla code can be found on https://github.com/joomla/joomla-cms
- Fork the repository

- On your VM execute:
  cd /home/vagrant/Projects
  *git clone https://github.com/**johndoe**/joomla-cms.git*
  cd joomla-cms
 *git checkout -b myfirstpr*

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Code change: Set up VM

- On the VM create a symlink to the webroot
  ln -s /home/vagrant/Projects/joomla-cms/ /var/www/cms
- Open the browser with the url 33.33.33.58/cms and install Joomla
- Database credentials to install are root/root

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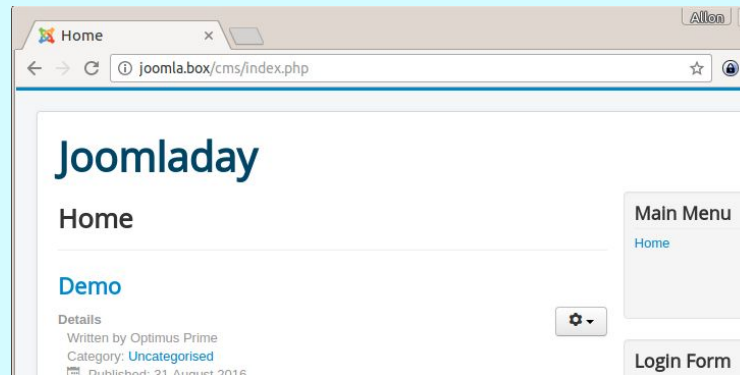
Code change: Edit a file

- On your local computer, in the folder */home/johndoe/joomla-projects* you should see now a folder **joomla-cms** with the complete joomla sources
- Change the file with your fix or enhancement, for example components/com_content/views/featured/tmpl/default.php

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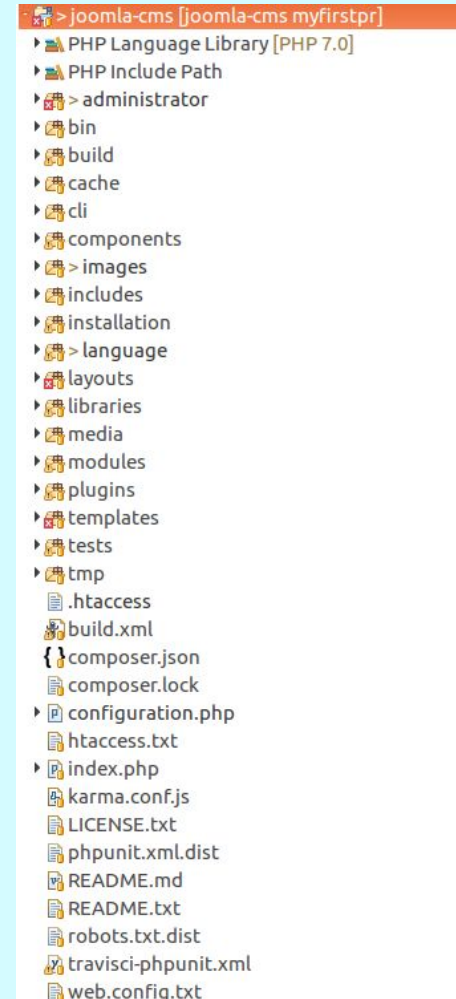
Code change: Publish the change

- Change your identity
  git config --global user.name "John Doe"
  git config --global user.email "johndoe@test.com"
- To add your change to git, you must commit it
  git add components/com_content/views/featured/tmpl/default.php
  git commit -m"Add info box"
- Push the file to github
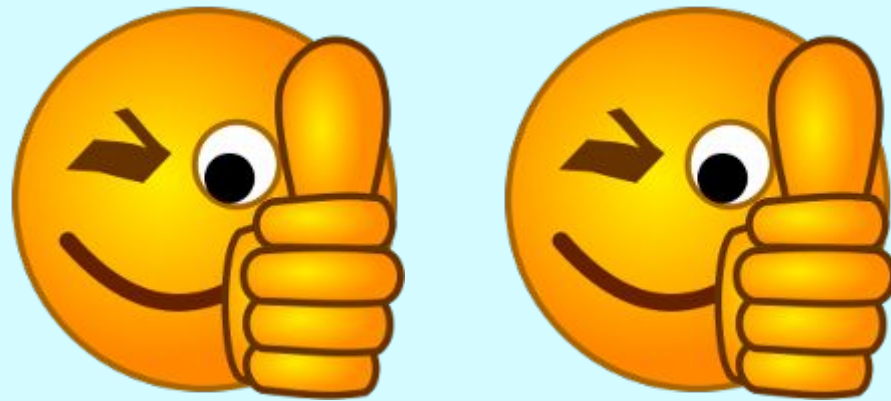 *git push -u origin myfirstpr*

```
[02:51 PM]-[vagrant@joomlatools]-[~/Projects/joomla-cms]-[git myfirstpr]
$ git status
On branch myfirstpr
Your branch is up-to-date with 'origin/staging'.

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   components/com_contact/contact.php
```
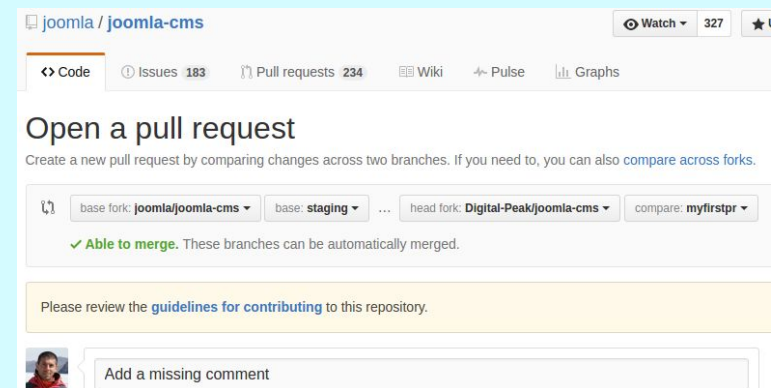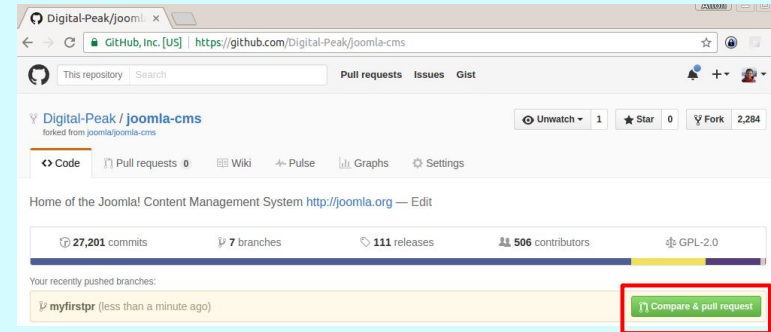
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Open Pull request

- On github.com click *Compare & pull request*
- Give it a meaningful title and fill the description
- Provide clear and detailed testing instructions
- Every pull request needs two successful human tests

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Final notes

- Most git commands can be done through the IDE
- Can be used for extension development as well
- Talk from Benjamin and Elisa, how to create a pull request without console

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Questions?

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Thank you and enjoy the day :-)

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