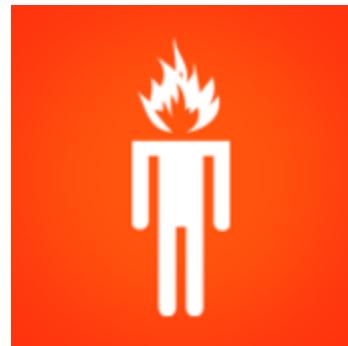




"Rags to Riches"

Vagrant for PHP

Christoph Lühr
@chluehr / @bephpug 2013



basilicom

apps
shop
banner
strategy
facebook
mobile
e-commerce
websites
newsletter
design
cms
marketing
concept
social
games

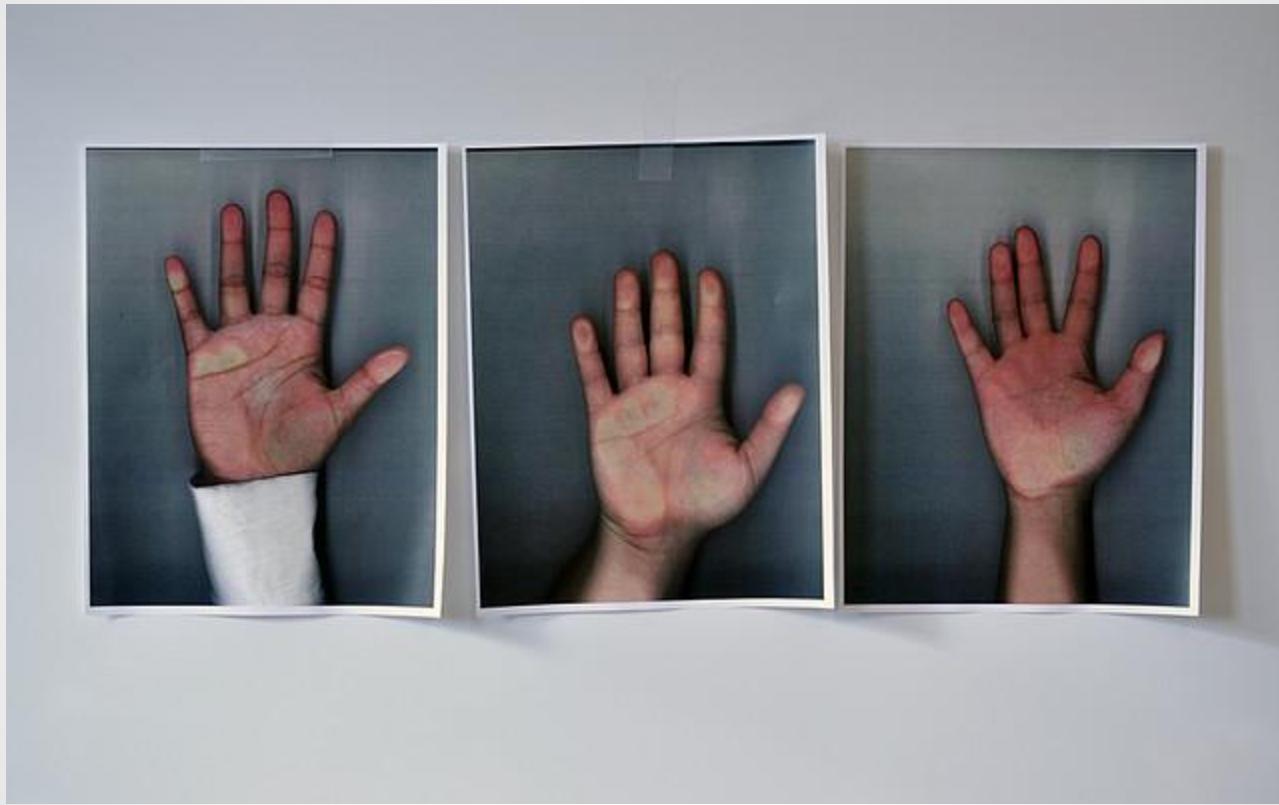


Image source: <http://www.flickr.com/photos/stinajonsson/3932774410> CC BY-NC 2.0



VAGRANT

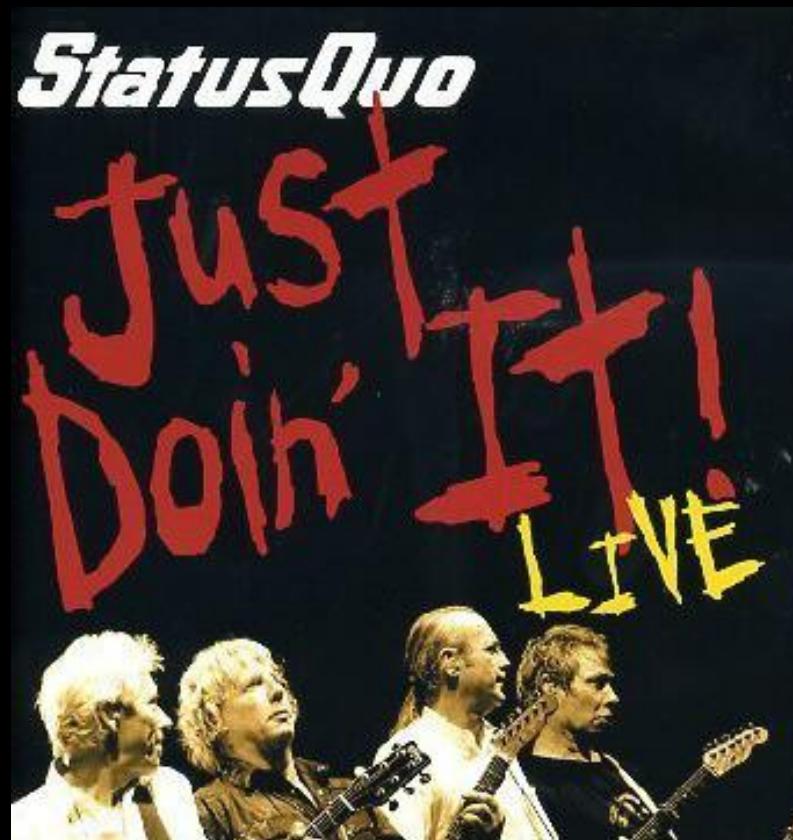
*"Create and configure
lightweight, reproducible, and portable
development environments."*



"Infrastructure as Code"

- FTW!

Development



Own Workstation

(LAMP, XAMP, MAMP, ...)

Shared System

(Linux Dev. Box in LAN)

Virtual Machine

(VMware, VirtualBox, ...)

Problems!

- OSX / Windows / Linux
- 32 / 64 bit
- Conflicts!
- Docs / Setup
- Versions / Dependencies
- ⇒ *"Works on my box!"*

Vagrant && Virtual Box

```
apt-get install \  
vagrant
```

(Packages for Windows, OSX, too)

Vagrantfile

(Ruby)

```
Vagrant::Config.run do |config|  
  
  # Base Box Name  
  config.vm.box = "precise64"  
  
  # Base Box URL  
  config.vm.box_url =  
    "http://files.vagrantup.com/precise64.box"  
  
  # Configure / Install Packages, Application  
  config.vm.provision :shell,  
    :path => "setup.sh"  
  
end
```

setup.sh

(bash / shell)

```
#!/bin/bash
```

```
apt-get update
```

```
apt-get install libapache2-mod-php5
```

```
apt-get install php5-mysql
```

```
echo "date.timezone = Europe/Berlin"
```

```
>> /etc/php5/conf.d/date.ini
```

```
service apache2 restart
```

vagrant command

Demo

vagrant up

- 1. Downloads Base Box Image**
- 2. Creates VM from Base Box**
- 3. Configures VM Guest**
- 4. Boots VM**
- 5. Installs / Configures Packages**



```
$ vagrant up
```

```
[default] Importing base box 'precise64'...
[default] Matching MAC address for NAT networking...
[default] Clearing any previously set forwarded ports...
[default] Forwarding ports...
[default] -- 22 => 2222 (adapter 1)
[default] -- 80 => 8080 (adapter 1)
[default] Creating shared folders metadata...
[default] Clearing any previously set network interfaces...
[default] Running any VM customizations...
[default] Booting VM...
[default] Waiting for VM to boot. This can take a few minutes.
[default] VM booted and ready for use!
[default] Mounting shared folders...
[default] -- v-root: /var/www
[default] Running provisioner: Vagrant::Provisioners::Shell...
stdin: is not a tty
==== BEGIN: Vagrant-setup.sh ====

```

vagrant *command*

up

halt

reload

destroy

...

Features!



Image source: <http://www.flickr.com/photos/rietje/76566707/> CC BY 2.0

Multiple-VMs

(Apache / DB-Master / DB-Slave)

VMware, AWS EC2, ...

(Providers / Platforms)

Puppet / Chef

(Different Installers/Provisioners)

Custom Base Boxes

(Speed up Setup)

Drawbacks

Slow File System

(vboxsf, NFS, CIFS, ... SSD!)

RAM

Success Story!

"Rags to Riches"

Documented, Repeatable

Stable Process, mirrors Live-System

Development Speed++

(Setup, new Colleagues, less fiddling)

Open Source Projects

Benefits: easier evaluation / collaboration



1. git clone
2. vagrant up
3. ...
4. Profit!



Thanks!

Questions?

Contact

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Links

- **Vagrant**

<http://www.vagrantup.com/>

- **Roundcube Fork with Vagrantfile**

<https://github.com/chluehr/roundcubemail>