



VAGRANT

**UP and RUNNING**

12/06/2016

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# Siapa Saya?

## Dendy Putra Delly

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# VAGRANT

- Swiss Army knife for development environments
- Alat/Sarana di command line
- Sumber Terbuka
- BUKAN VM
- Berjalan di Linux, Windows dan MacOS
- Konfigurasi dengan Ruby

# BRIEF HISTORY

- Dimulai Januari 2010 oleh Mitchell Hashimoto
- Proyek sampingan
- November 2012 Hashi Corp dibentuk oleh Mitchell Hashimoto
- Menjadi Full Time Project
- Versi Pertama Vagrant Rilis Maret 2010
- Mendapatkan Sponsor Pertama Engine Yard Oktober 2010
- Versi Stable Pertama Rilis Tahun Maret 2012. Vagrant 1.0

# WHY?

- Portable
- Distributable
- Menciptakan lingkungan pengembangan yang terisolasi dari satu sama lain
- Mengurangi waktu untuk setup lingkungan pengembangan
- Identik dengan lingkungan produksi
- Menjaga lingkungan produksi kecil dan cepat

# Glossary

- Host
- Guest
- Provider
- Box
- Provision
- Vagrantfile

# Let's Start!

- Install Virtualbox, dkms(linux)
- Install Vagrant
- ~ \$ vagrant version

# Command Line

~ \$ vagrant list-commands



# Up and Running

- Buat proyek baru dengan membuat direktori kerja
- `mkdir ~/vagrantdemo`
- `cd ~/vagrantdemo`
- `vagrant init ubuntu/trusty64`
- `vagrant up`
- `vagrant status`
- `vagrant ssh`

# BOXES

<https://atlas.hashicorp.com/boxes/search>

~ \$ ls .vagrant.d/boxes/

C:\Users\USERNAME\.vagrant.d\boxes

~ \$ vagrant box -h

# Command Line

```
~ $ vagrant list-commands
```

# Shared Folder

- default: /vagrant => /home/USERNAME/PROJECTDIR
- `config.vm.synced_folder "/home/", "/vagrant_data"`
- Disable The Default  
`config.vm.synced_folder ".", "/vagrant", disabled: true`

# Networking

- `config.vm.network "forwarded_port", guest: 80, host: 8899`
- `sudo python -m SimpleHTTPServer 80`
- Host-Only:  
`config.vm.network "private_network", ip: "192.168.33.10"`
- Bridged:  
`config.vm.network "public_network", bridge: "wlan0"`

# Multiple Machine in 1 Vagrantfile

```
vagrant.configure(2) do |config|
  config.vm.box = "ubuntu/trusty64"

  config.vm.define "web" do |web|
    web.vm.network "forwarded_port", guest: 80, host: 9977
    web.vm.provision "shell", path: "provision.sh"
    web.vm.network "private_network", ip: "172.16.24.11"
  end

  config.vm.define "db" do |db|
    db.vm.network "private_network", ip: "172.16.24.10"
    db.vm.provision "shell", path: "provisiondb.sh"
  end

end
```

# REFERENSI

- Vagrant Up and Running by Mitchell Hashimoto
- <https://www.vagrantup.com/docs/>
- <https://github.com/mitchellh/vagrant/issues>

# TERIMA KASIH