CIaaS (final project @ ISEL DEETC)

Development Environment

Requirements

- Git (http://git-scm.com/)
- Virtual Box (https://www.virtualbox.org/wiki/Downloads)
- Vagrant (https://www.vagrantup.com/downloads.html)
- Chef Development Kit (http://downloads.getchef.com/chef-dk)

Getting started

Check requirements

First make sure you have installed all requirements. Open console and type:

Git:

```
$ git --version
git version 1.9.4.msysgit.0
```

Vagrant:

```
$ vagrant -v
Vagrant 1.6.3
```

ChefDK & Berkshelf

```
$ berks -v
3.1.3
```

Now install vagrant plugin for berkshelf and ominibus support:

```
$ vagrant plugin install vagrant-berkshelf --plugin-version 2.0.1
Installing the 'vagrant-berkshelf' plugin. This can take a few minutes...
Installed the plugin 'vagrant-berkshelf (2.0.1)!'

$ vagrant plugin install vagrant-omnibus
Installing the 'vagrant-omnibus' plugin. This can take a few minutes...
Installed the plugin 'vagrant-omnibus (1.4.1)'!
```

Next install cookbook recipes using berkshelf. Inside /cookbooks/ciaas open console and type

```
$ berks install
```

Start and provision VM

In project folder open console (windows: with Administrator role) and type:

```
$ vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Importing base box 'phusion/ubuntu-14.04-amd64'
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'phusion/ubuntu-14.04-amd64' is
==> default: Setting the name of the VM: facts_default_14090
==> default: Clearing any previously set forwarded ports...
....
.... very verbose output of vagrant and provisioning
....
==> default: [2014-08-26T21:14:18+00:00] INFO: Chef Run complete in 232.626688803
seconds
==> default: [2014-08-26T21:14:18+00:00] INFO: Running report handlers
==> default: [2014-08-26T21:14:18+00:00] INFO: Report handlers complete
```

This command will download box file (~300Mb) start adn provision headless VM with mapping root of project of host OS into `/vagrant` folder of guest OS. Also it will forward ports for mysql(3306), redis(6379) and http(8080) into host OS.