<http://kitchen.ci/docs/getting-started/>

Prerequisites:

1. Virtual Box

2. Vagrent, you may download vagrant dmg from <http://www.vagrantup.com/downloads.html>

Installation and Configuration on Mac:

1.  Create a seperate directory, like I created ‘kitchen’  under ‘/Users/prem’. #mkdir /Users/prem/kitchen

2.  Change directory to ‘kitchen’ directory, #cd   /Users/prem/kitchen

3.  Install 'test-kitchen’ from ruby gems. #sudo gem install test-kitchen

4. Create a initial configuration file ‘kitchen.yml'  to Test kitchen using ‘kitchen init’ subcommand. #kitchen init --driver=kitchen-vagrant

5. It Kitchen directory is synced with your git account, you should add kitchen.yml in gitignore. #git add .gitignore .kitchen.yml

6. Copy all cookbook to ‘kitchen’ directory or create new cookbooks. #cp -rf  cp -rf /Users/prem/cluster-chef/chef-repo/\* /Users/prem/kitchen/

7. Create a instance. #kitchen create default-ubuntu14.04

8. Edit .kitchen.yml with the run list, I have following at my end:

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driver:

name: vagrant

customize:

memory: 512

cpus: 1

provisioner:

name: chef\_solo

platforms:

- name: Ubuntu14.04

driver:

box: Ubuntu14.04

box\_url: "<https://opscode-vm-bento.s3.amazonaws.com/vagrant/virtualbox/opscode_ubuntu-14.04_chef-provisionerless.box>"

- name: Ubuntu-14.04

driver:

box: Ubuntu-14.04

box\_url: "<https://opscode-vm-bento.s3.amazonaws.com/vagrant/virtualbox/opscode_ubuntu-14.04_chef-provisionerless.box>"

suites:

- name: default

run\_list:

kit

- recipe[yum-epel::default]

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9. Now its time to converge cookbooks on instance setup.# sudo kitchen converge default-ubuntu-14.04

10. Login to instance to check. # kitchen login default-ubuntu-14.04

11. For testing this in future you may add the cookbook recipe in kitchen.yml file and converge the instance.

12. To remove Instance. # kitchen destroy default-ubuntu-14.04

13. As per the default  kitchen.yml file the instance of cents6.6 and 5.11 can be created but if I want a specific OS version, I need to download old box from:

<https://github.com/chef/bento/blob/master/OLD-BOXES.md>

the download can be done via kitchen.yml file:

-------Snip------

- name: ubuntu-14.04

driver:

box: default-ubuntu-14.04

box\_url: http://opscode-vm-bento.s3.amazonaws.com/vagrant/virtualbox/opscode\_ubuntu-14.04\_chef-provisionerless.box

-------Snip------

and run knife create default-ubuntu-14.04converge

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==> default: Adding box 'default-ubuntu-14.04' (v0) for provider: virtualbox

           default: Downloading: <http://opscode-vm-bento.s3.amazonaws.com/vagrant/virtualbox/opscode_ubuntu-14.04_chef-provisionerless.box>

==> default: Successfully added box 'default-ubuntu-14.04' (v0) for 'virtualbox'!

       ==> default: Importing base box 'default-ubuntu-14.04'...

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To run data bags:

add following is kitchen: Apache

httpd\_service 'default' do

action :create

end

httpd\_service 'instance-1' do

listen\_ports ['81', '82']

action :create

end

httpd\_service 'an websites' do

instance\_name 'bob'

servername 'www.computers.biz'

version '2.4'

mpm 'event'

threadlimit '4096'

listen\_ports ['1234']

action :create

end

;

———knichen.yml—for-EC2-machines————s-------aws account required

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driver:

 name: ec2

 instance\_type: t2.medium

 aws\_ssh\_key\_id: testmachine-dev\_ap-southeast-1\_prem

 require\_chef\_omnibus: true

 subnet\_id: "subnet-93a962e4"

 security\_group\_ids: ["sg-03a62366"]

 region: ap-southeast-1

 availability\_zone: ap-southeast-1a

 require\_chef\_omnibus: true

 associate\_public\_ip: true

 interface: public

provisioner:

 name: chef\_solo

transport:

 username: ec2-user

 ssh\_key: /Users/lp-oe-jal-062/Dropbox/keys/DevOps/kayako-dev\_ap-southeast-1\_prem.pem

 connection\_timeout: 10

 connection\_retries: 5

platforms:

 - name: "Amazon"

   driver:

     image\_id: "ami-68d8e93a"

suites:

 - name: default

   data\_bags\_path: "test/integration/default/data\_bags/"

   run\_list:

     - recipe[yum::default]

     - recipe[yum-epel::default]

     - recipe[build-essential::default]

     - recipe[ohai::default]

     - recipe[varnish::api]

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To Test:

**httpd\_module**

The httpd\_module resource is responsible ensuring that an Apache module is installed on the system, as well as ensuring a load configuration snippet is dropped off at the appropriate location.

**Code:**

httpd\_module 'ssl' do

action :create

end

httpd\_module 'el dap' do

module\_name 'ldap'

action :create

end

httpd\_module 'auth\_pgsql' do

instance 'instance-2'

action :create

end