**How to run test Kitchen on amazon aws?**

27 October 2015

One of the most important things of continuous delivery process is to run tests. To run test with [Chef](https://www.chef.io/) we have [Test Kitchen](http://kitchen.ci/). [Test Kitchen](http://kitchen.ci/) is a tool to execute test on one o more platforms. [Test Kitchen](http://kitchen.ci/) have drivers to execute test on differents platforms like [Vagrant](https://www.vagrantup.com/), [AWS](http://aws.amazon.com/), [Rackspace](http://www.rackspace.com/), [Azure](https://azure.microsoft.com) and more.

By default, [Test Kitchen](http://kitchen.ci/) use kitchen-vagrant driver. This post contains the steps to configure Test Kitchen to execute tests on AWS using [kitchen-ec2](https://github.com/test-kitchen/kitchen-ec2) driver.

* Create a IAM user in your AWS account, and download the access credentials. I use the "arn:aws:iam::aws:policy/AmazonEC2FullAccess” policy.
* Add a credentials profile in .aws/credentials file:

$HOME/.aws/credentials

[shopswey]

aws\_access\_key\_id = KKKKKKKKKKK

aws\_secret\_access\_key = SSSSSSSSSSSSSSSSSSSSSSSSSS

* Create a ec2 key pair and save in $HOME/.ec2/ directory.

$HOME/.ec2/shopswey.pem

* Create a ec2 security group.
* Install and init kitchen-ec2 driver:

kitchen init --driver=kitchen-ec2 --create-gemfile

bundle install

* Edit kitchen.yml file:

---

driver:

name: ec2

aws\_ssh\_key\_id: shopswey

security\_group\_ids: ["sg-c4eb47a0"]

region: eu-west-1

availability\_zone: b

require\_chef\_omnibus: true

instance\_type: t1.micro

associate\_public\_ip: true

shared\_credentials\_profile: shopswey

provisioner:

name: chef\_zero

cookbook\_path: cookbooks

roles\_path: roles

environments\_path: environments

data\_bags\_path: data\_bags

client\_rb:

environment: development

platforms:

- name: aws-ubuntu-14.04

driver:

image\_id: ami-5da23a2a

transport:

ssh\_key: /Users/dmataro/.ec2/shopswey.pem

username: ubuntu

suites:

- name: aws

driver:

vm\_hostname: s1.shopswey.loc

run\_list:

- role[base]

- role[dbserver]

- role[phpserver]

- role[webserver]

attributes:

To view what means each option, visit [kitchen-ec2](https://github.com/test-kitchen/kitchen-ec2)

* Run kitchen

Links:

<https://github.com/test-kitchen/kitchen-ec2> <http://misheska.com/blog/2014/09/21/survey-of-test-kitchen-providers/#amazon-ec2-cloud-provider-kitchen-ec2>

2016-06-27 UPDATE

After update kitchen to 1.7.3 version, when run a kitchen test there are next error:

-----> Starting Kitchen (v1.7.3)

-----> Creating <aws-testing-ubuntu-trusty64>...

If you are not using an account that qualifies under the AWS

free-tier, you may be charged to run these suites. The charge

should be minimal, but neither Test Kitchen nor its maintainers

are responsible for your incurred costs.

>>>>>> ------Exception-------

>>>>>> Class: Kitchen::ActionFailed

>>>>>> Message: Failed to complete #create action: [parameter validator found 3 errors:

- unexpected value at params[:block\_device\_mappings][0][:ebs\_device\_name]

- unexpected value at params[:block\_device\_mappings][0][:ebs\_volume\_size]

- unexpected value at params[:block\_device\_mappings][0][:ebs\_delete\_on\_termination]]

>>>>>> ----------------------

>>>>>> Please see .kitchen/logs/kitchen.log for more details

>>>>>> Also try running `kitchen diagnose --all` for configuration

In new kitchen versions the EBS configuration have changed. The new configuration is:

block\_device\_mappings:

- device\_name: /dev/sda1

ebs:

volume\_size: 50

delete\_on\_termination: true