**Serverspec Testing**

1. Serverspec is a dependency of Chef 12.1.0+ for audit mode, so it is included in ChefDK. Make sure ChefDK is installed or run these commands to install it.

* sudo wget <https://packages.chef.io/stable/el/7/chefdk-0.16.28-1.el7.x86_64.rpm>
* sudo rpm -Uvh chefdk-0.16.28-1.el7.x86\_64.rpm
* echo PATH=/opt/chefdk/embedded/bin:${HOME}/.chefdk/gem/ruby/2.1.0/bin:$PATH
* check for ruby and gem

ruby –v

gem -v

1. Install and setup Serverspec

* gem install gemfile
* cd /bin
* sudo vim gemfile 🡪 gem 'serverspec' (add this line to the file) 🡪 save and exit
* gem install rake
* gem install serverspec
* using WinSCP transfer the public key of the instance (.pem file) to /home/ec2-user/.ssh/ directory in the instance
* sudo vi ~/.ssh/config

server1

HostName ec2-54-186-179-141.us-west-2.compute.amazonaws.com

User ec2-user

Port 22

IdentityFile ~/.ssh/AWSPublicKey.pem

* sudo mkdir –p /etc/serverspec
* cd /etc/serverspec
* serverspec-init

Select UN\*X 🡪 Select SSH 🡪 Vagrant Instance(y/n): n 🡪 input hostname: ec2-54-186-179-141.us-west-2.compute.amazonaws.com

This will create the following setup on the instance:

+ spec/

+ spec/ec2-54-187-170-253.us-west-2.compute.amazonaws.com/

+ spec/ec2-54-187-170-253.us-west-2.compute.amazonaws.com/sample\_spec.rb

+ spec/spec\_helper.rb

+ Rakefile

+ .rspec

* cd spec/ec2-54-187-170-253.us-west-2.compute.amazonaws.com/
* cat sample\_spec.rb (or) nano sample\_spec.rb (to check or edit the spec for testing the server)

require 'spec\_helper'

describe package('httpd') do

it { should be\_installed }

end

describe service('httpd') do

it { should be\_enabled }

it { should be\_running }

end

describe port(80) do

it { should be\_listening }

end

describe package('php') do

it { should be\_installed }

end

describe package('mysql-server') do

it { should be\_installed }

end

describe service('mysqld') do

it { should be\_running }

end

* cd ~/etc/serverspec/spec
* cat spec\_helper.rb (or) nano spec\_helper.rb (to change the user)

1. Run the tests: Run the following command

* rake spec

