Lesson 4 Demo 5: Creating and Executing ChefSpec

This section will guide you to:

* Create and Execute ChefSpec

This lab has seven sub-sections, namely:

1. Creating a gem file containing the ChefSpec gem
2. Installing gem
3. Creating a spec directory
4. Creating a Spec
5. Validating ChefSpec
6. Editing cookbooks default recipe
7. Running rspec again

***Note:*** *The demos are incremental. Please ensure you have successfully completed the previous demos before proceeding with this demo.*

**Step 1: Creating a gem file containing the ChefSpec gem**

* Execute the below command to create a ChefSpec in the repo as shown below:

**cd ~/chef-repo**

**sudo -i**

**gem install chefspec**

**vi Gemfile**

* Add the following content inside the Gemfile.

**source 'https://rubygems.org'**

**gem 'chefspec'**

* Save and exit using **[esc][shift]:wq**

**Step 2: Installing gem**

* Execute the below command inside the chef-repo to install gem:

**bundler install**

**Step 3: Creating a spec directory**

* Spec directory can be created using the command below:

**exit**

**mkdir ~/chef-repo/cookbooks/test\_cookbook/spec**

**Note:** In our case the spec directory already exists. If not please create one.

**cd ~/chef-repo/cookbooks/test\_cookbook/spec**

**ls**

**Step 4: Creating a Spec**

* Run the below code to create a Spec test: The test, shown as follows, will verify that our recipe will create a new file, /tmp/myfile.txt
* Add the below code in the **spec\_helper.rb** file present in the spec directory.

**require ‘chefspec’**

**describe ‘test\_cookbook::default’ do**

**let(:chef\_run) {**

**ChefSpec::Runner.new.converge(described\_recipe)**

**}**

**it ‘creates a file’ do**

**expect(chef\_run).to create\_file(‘/tmp/myfile.txt’)**

**end**

**end**

**Step 5: Validating ChefSpec**

* From inside the chef-repo, run the below code to validate the created ChefSpec:

**Note:** The below command is expected to fail intentionally to validate if the tests are working fine.

**rspec cookbooks/test\_cookbook/spec/default\_spec.rb**

**Step 6: Editing Cookbook’s default recipe**

* Run the below code to edit cookbook’s recipe:

**vi ~/chef-repo/cookbooks/test\_cookbook/recipes/default.rb**

* Add the below code in the default.rb file

**file '/tmp/myfile.txt' do**

**content ‘Hello from Chef’**

**end**

**Step 7: Running rspec again**

* Run the rspec command from the chef-repo to validate the tests

**rspec cookbooks/test\_cookbook/spec/default\_spec.rb**