Lesson 5 Demo 1: Creating and Testing Chef Library

This section will guide you to:

* Create and test Chef library

This lab has four sub-sections, namely:

1. Creating a Chef library
2. Using the helper method
3. Uploading the modified cookbook to the server
4. Testing the library

**Note:** *The demos are incremental. Please ensure you have successfully completed the previous demos before proceeding with this demo. You need to have a chef-repo created in order to continue (Lesson 3 Demo 3).*

**Step 1: Creating a Chef library**

* Create a helper method in the cookbook’s library with the help of the below command:

**mkdir -p ~/chef-repo/cookbooks/test\_cookbook/libraries**

* Run the below commands to create a **ipaddress.rb** file

**vi cookbooks/test\_cookbook/libraries/ipaddress.rb**

* Add the following code inside the file

**class Chef::Recipe**

**def netmask(ipaddress)**

**IPAddress(ipaddress).netmask**

**end**

**end**

* Run the following command to find the ipaddress

**ifconfig**

**Step 2: Using the helper method**

* Use the helper method to create a library in the Chef repository as shown below:

**cd ~/chef-repo**

**vi cookbooks/test\_cookbook/recipes/default.rb**

* Add the following code in the default.rb file

**ip = '<your\_IP\_Address>/24'**

**mask = netmask(ip) # here we use the library method**

**Chef::Log.info("Netmask of #{ip}: #{mask}")**

**Step 3: Uploading the modified cookbook to the Chef server**

* Execute the below command to upload the cookbook to the Chef server:

**cd ~/chef-repo**

**knife cookbook upload test\_cookbook**

**Step 4: Testing the library**

* Run the below code to test the library:

**sudo chef-client**