**Assisted Practice: Creating and Testing Chef Library**

This section will guide you to:

Create and test Chef library

This lab has four sub-sections, namely:

5.1.1 Creating a Chef library

` 5.1.2 Using the helper method

5.1.3 Uploading the modified cookbook to the server

5.1.4 Testing the library

**Step 5.1.1 Creating a Chef library**

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

mkdir -p cookbooks/test\_cookbook/libraries

{Name of the cookbook depends on what you have created.In my case it is test\_cookbook. Maintain the same name throughout else it will through an error.}

subl cookbooks/test\_cookbook/libraries/ipaddress.rb

{If subl doesn’t work use vim }

class Chef::Recipe

def netmask(ipaddress)

IPAddress(ipaddress).netmask

end

end

Provide the netmask and ip. Check the ip with ifconfig

**Step 5.1.2 Using the helper method**

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

{If subl doesn’t work use vim }

chef-repo $ subl cookbooks/test\_cookbook/recipes/default.rb

ip = '181.31.17/24'

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

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

**Step 5.1.3 Uploading the modified cookbook to the Chef server**

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

chef-repo $ knife cookbook upload test\_cookbook

{Cookbook that you have created initially}

Uploading my\_cookbook [0.1.0]

**Step 5.1.4 Testing the library**

* Run the below code to test the library:

sudo chef-client