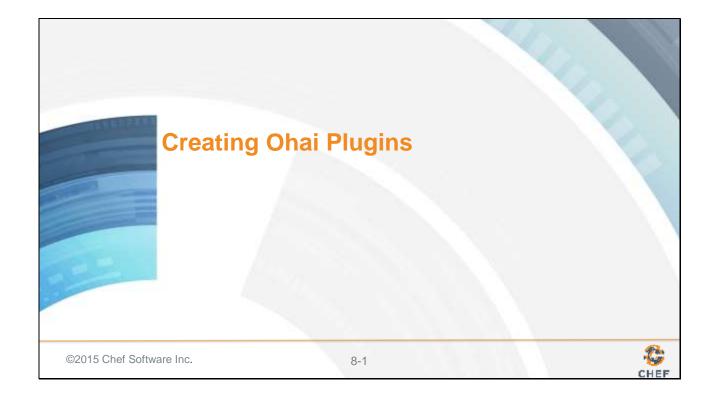
# 8: Creating Ohai Plugins



# **Objectives**

After completing this module, you should be able to:

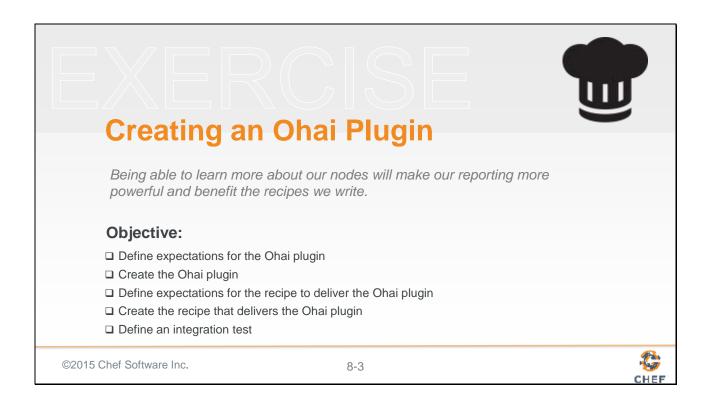
> Create a tested Ohai plugin

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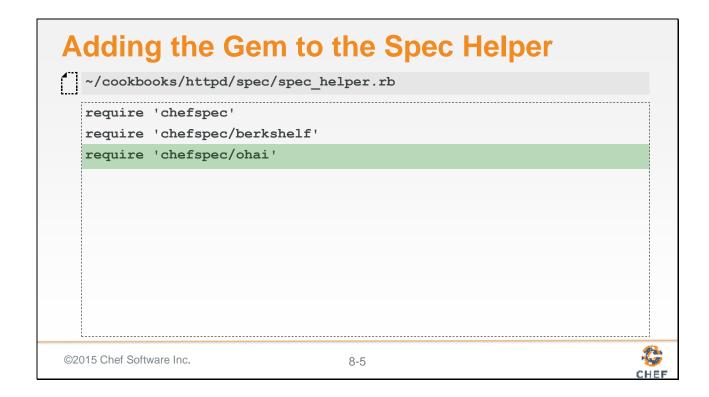
8-2

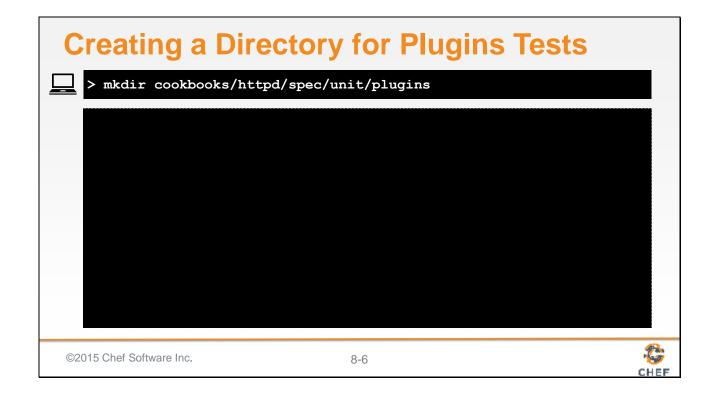


After completing this module you will be able to









# **Defining the First Expectation for Plugin**

```
~/cookbooks/httpd/spec/unit/plugins/httpd_modules_spec.rb

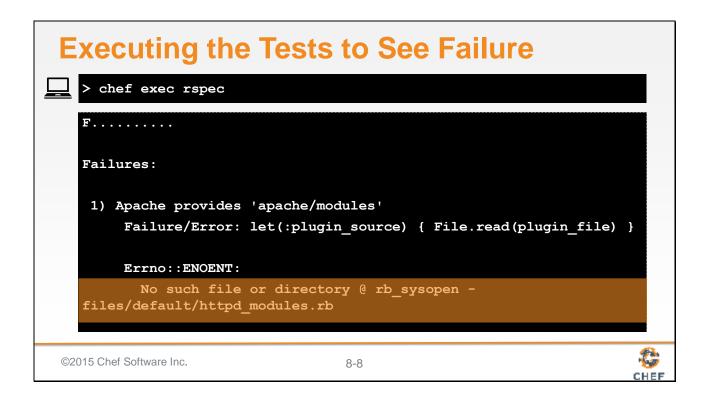
require 'spec_helper'

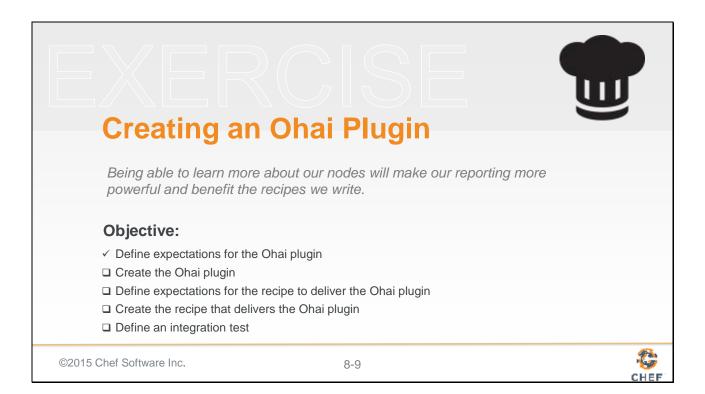
describe_ohai_plugin :Apache do
   let(:plugin_file) { 'files/default/httpd_modules.rb' }

it 'provides apache/modules' do
   expect(plugin).to provides_attribute('apache/modules')
   end
end
```

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# Creating the Plugin as a Cookbook File



> chef generate file httpd modules.rb

Recipe: code\_generator::cookbook\_file

- \* directory[/Users/franklinwebber/training/source/extending\_cookbooks-repo/cookbooks/httpd/files/default] action create (up to date)
- \* template[/Users/franklinwebber/training/source/extending\_cookbooks-repo/cookbooks/httpd/files/default/httpd\_modules.rb] action create
  - create new file

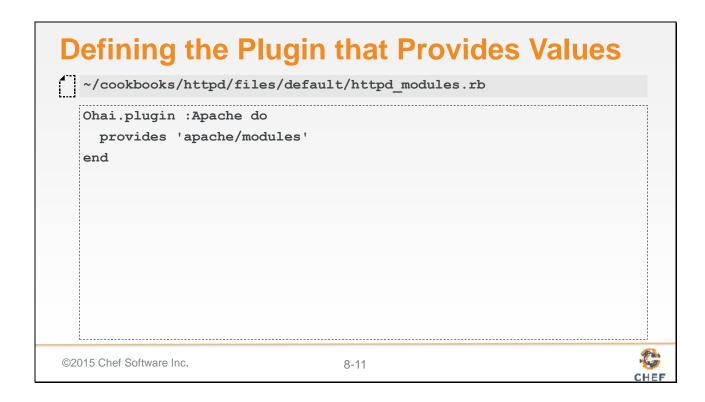
/Users/franklinwebber/training/source/extending\_cookbooks-repo/cookbooks/httpd/files/default/httpd modules.rb

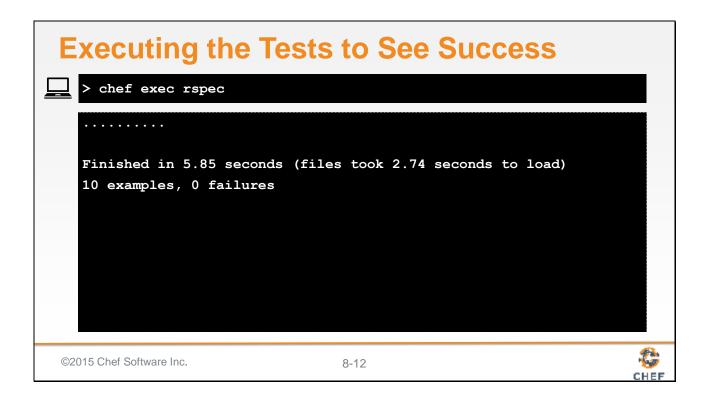
- update content in file

/Users/franklinwebber/training/source/extending\_cookbooks-repo/cookbooks/httpd/files/default/

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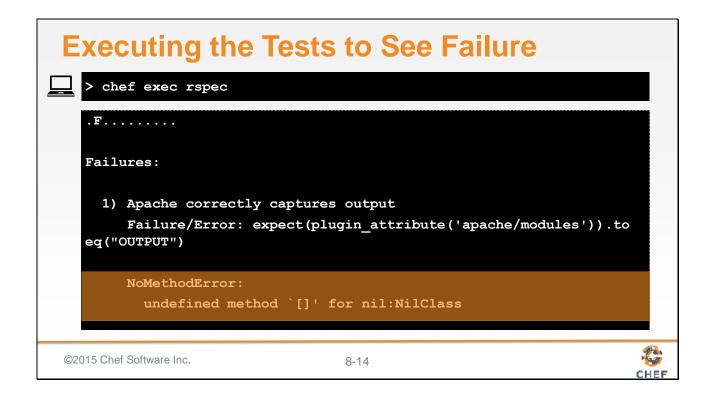


# Defining an Expectation for Attribute Value "/cookbooks/httpd/spec/unit/plugins/httpd\_modules\_spec.rb require 'spec\_helper' describe\_ohai\_plugin :Apache do let(:plugin\_file) { 'files/default/httpd\_modules.rb' } it 'provides apache/modules' do expect(plugin).to provides\_attribute('apache/modules') end it 'correctly captures output' do allow(plugin).to receive(:shell\_out).with('apachectl -t -D DUMP\_MODULES').and\_return('OUTPUT') expect(plugin\_attribute('apache/modules')).to eq("OUTPUT") end end

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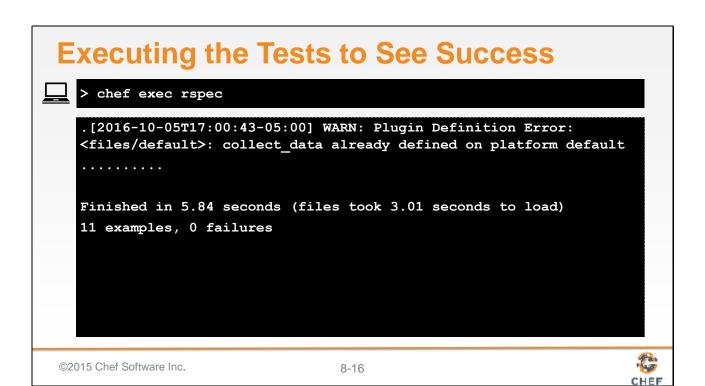


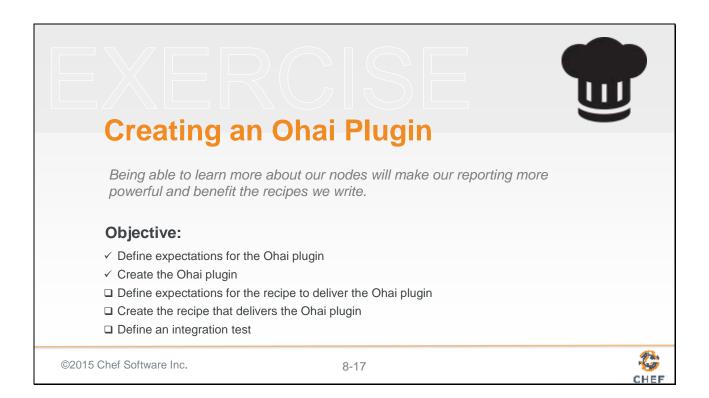
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## Slide 15

# 

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# Adding a Dependency on the Ohai Cookbook

~/cookbooks/httpd/metadata.rb

```
name 'httpd'
maintainer 'The Authors'
maintainer_email 'you@example.com'
license 'all_rights'
description 'Installs/Configures httpd'
long_description 'Installs/Configures httpd'
version '0.1.0'

# If you upload to Supermarket you should set this so your cookbook
# gets a `View Issues` link
# issues_url 'https://github.com/<insert_org_here>/httpd/issues' if respond_to?(:issues_url)

# If you upload to Supermarket you should set this so your cookbook
# gets a `View Source` link
# source_url 'https://github.com/<insert_org_here>/httpd' if respond_to?(:source_url)
depends 'ohai'
```

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Recipe: code\_generator::recipe
 \*
directory[/Users/franklinwebber/training/source/extending\_cookbook
s-repo/cookbooks/httpd/spec/unit/recipes] action create (up to
date)
 \*
cookbook\_file[/Users/franklinwebber/training/source/extending\_cook
books-repo/cookbooks/httpd/spec/spec\_helper.rb] action
create\_if\_missing (up to date)
 \*
template[/Users/franklinwebber/training/source/extending\_cookbooks-

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# **Defining the Expectation Plugin Deployed** ~/cookbooks/httpd/spec/unit/recipes/ohai\_httpd\_modules\_spec.rb # ... UPPER PORTION OF THE SPECIFICATION ... let(:chef\_run) do runner = ChefSpec::ServerRunner.new runner.converge(described recipe) end it 'converges successfully' do expect { chef run }.to not raise error it 'installs the modules plugin' do expect(chef\_run).to create\_ohai\_plugin('httpd\_modules') end end end ©2015 Chef Software Inc. 8-20

# 

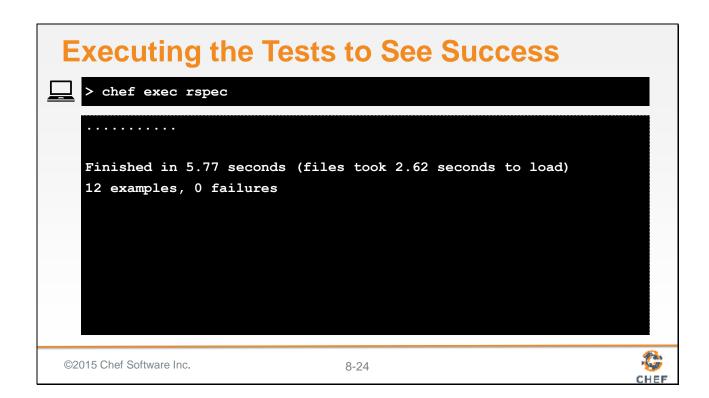
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# Defining the Ohai Plugin in the Recipe -/cookbooks/httpd/recipes/ohai\_httpd\_modules.rb # # Cookbook Name:: httpd # Recipe:: ohai\_httpd\_modules # # Copyright (c) 2016 The Authors, All Rights Reserved. ohai\_plugin 'httpd\_modules'

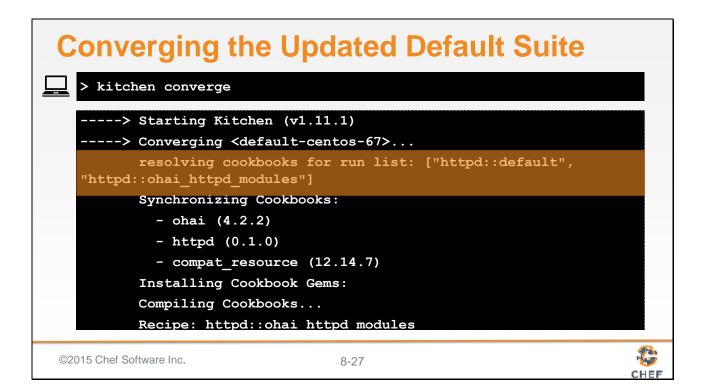




```
Appending the New Recipe to the Suite

-/httpd/.kitchen.yml

# ... TOP OF KITCHEN CONFIGURATION ...
suites:
- name: default
run_list:
- recipe[httpd::default]
- recipe[httpd::ohai_httpd_modules]
verifier:
    inspec_tests:
    - test/recipes
    attributes:
```



# **Defining an Expectation for the Plugin**

```
~/httpd/test/recipes/ohai_httpd_modules.rb

plugin_directory = '/tmp/kitchen/ohai/plugins'

describe command("ohai -d #{plugin_directory} apache") do
   its(:stdout) { should match(/core_module/) }
end
```

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