Lab: Use the Template

For the "apache" cookbook:

❑ Use chef generate to create a template named "index.html.erb".

❑ Copy the content property from the file named '/var/www/html/index.html' into the template file "index.html.erb"

❑ Remove a resource: The file resource named '/var/www/html/index.html'

❑ Add a resource: The template named '/var/www/html/index.html' is created with the source 'index.html.erb'

❑ Run chef-client to locally apply the default recipe from the apache cookbook

GL: What Can `chef generate template` Do?

```
$ chef generate template --help
```

UsaGL: chef generate template [path/to/cookbook] NAME [options]

```
    -C, --copyright COPYRIGHT          Name of the copyright holder -
defaults to 'The Authors'

    -m, --email EMAIL                  Email address of the author - defaults
to ...

    -a, --generator-arg KEY=VALUE      Use to set arbitrary attribute KEY to
VALUE in the

    -I, --license LICENSE              all_rights, apache2, mit, gplv2, gplv3
- defaults to

    -s, --source SOURCE_FILE           Copy content from SOURCE_FILE

    -g GENERATOR_COOKBOOK_PATH,        Use GENERATOR_COOKBOOK_PATH for the
code_generator

        --generator-cookbook
```

CHEF

GL: Use `chef` to Generate a Template

```
$ cd ~

$ chef generate template cookbooks/apache index.html
```

```
Compiling Cookbooks...

Recipe: code_generator::template

  * directory[cookbooks/apache/templates/default] action create

     - create new directory cookbooks/apache/templates/default

  * template[cookbooks/apache/templates/default/index.html.erb] action
create

     - create new file cookbooks/apache/templates/default/index.html.erb

     - update content in file
cookbooks/apache/templates/default/index.html.erb from none to e3b0c4

      (diff output suppressed by config)
```

GL: Lets Look at the Template File

```
$ tree cookbooks/apache/templates
```

```
cookbooks/apache/templates/
└── default
    └── index.html.erb

1 directory, 1 file
```

GL: Move Our Source to the Template

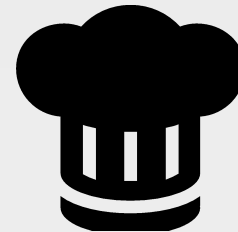`~/cookbooks/apache/templates/default/index.html.erb`

```
<html>
  <body>
    <h1>Hello, world!</h1>
    <h2>ipaddress: #{node['ipaddress']}</h2>
    <h2>hostname: #{node['hostname']}</h2>
  </body>
</html>
```

GL: Move Our Source to the Template

`~/cookbooks/apache/templates/default/index.html.erb`

```
<html>
  <body>
    <h1>Hello, world!</h1>
    <h2>ipaddress: <%= node['ipaddress'] %></h2>
    <h2>hostname: <%= node['hostname'] %></h2>
  </body>
</html>
```

Cleaner Recipes

Adding the node attributes to the default page did make it harder to read the recipe.

Objective:

- ✓ Create a template with chef generate
- ✓ Define the contents of the ERB template
- ✓ Change the file resource to the template resource in the 'apache' cookbook

GL: Remove the Existing Content Attribute

~/cookbooks/apache/recipes/server.rb

```
package 'httpd'

file '/var/www/html/index.html' do
  content "<h1>Hello, world!</h1>
<h2>ipaddress: #{node['ipaddress']}</h2>
<h2>hostname: #{node['hostname']}</h2>
"
end

service 'httpd' do
  action [ :enable, :start ]
end
```

GL: Change File Resource to a Template Resource

~/cookbooks/apache/recipes/server.rb

```
package 'httpd'


template '/var/www/html/index.html' do
end


service 'httpd' do
  action [ :enable, :start ]
end
```

What to Specify as the Source?

```
package 'httpd'


template '/var/www/html/index.html' do
  source "?????????????"
end


service 'httpd' do
  action [ :enable, :start ]
end
```

GL: Viewing the Partial Path to the Template

```
$ tree cookbooks/apache/templates/default
```

```
cookbooks/apache/templates/default/
└── index.html.erb

0 directories, 1 file
```

GL: Update the Source Attribute

`~/cookbooks/apache/recipes/server.rb`

```
package 'httpd'


template '/var/www/html/index.html' do
  source 'index.html.erb'
end


service 'httpd' do
  action [ :enable, :start ]
end
```

Lab: Change Directories and Apply the Cookbook

```
$ cd ~

$ sudo chef-client --local-mode -r "recipe[apache]"
```

```
[2016-09-16T14:18:05+00:00] WARN: No config file found or specified on command line,
using command line options.

Starting Chef Client, version 12.3.0

resolving cookbooks for run list: ["apache"]

Synchronizing Cookbooks:

  - apache

Compiling Cookbooks...

[2016-09-16T14:18:09+00:00] WARN: Cloning resource attributes for service[httpd] from
prior resource (CHEF-3694)

[2016-09-16T14:18:09+00:00] WARN: Previous service[httpd]:
/root/.chef/local-mode-cache/cache/cookbooks/apache/recipes/server.rb:8:in `from_file'

[2016-09-16T14:18:09+00:00] WARN: Current  service[httpd]:
/root/.chef/local-mode-cache/ ...
```
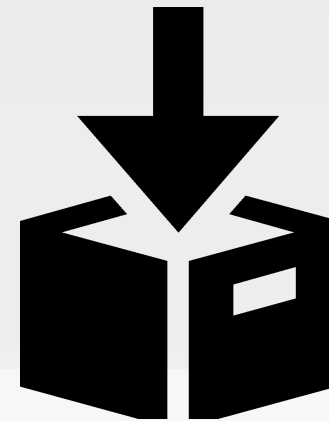
Lab: Update the Cookbook's Patch Number

~/cookbooks/apache/metadata.rb

```
name                'apache'
maintainer          'The Authors'
maintainer_email    'you@example.com'
license             'all_rights'
description         'Installs/Configures apache'
long_description    'Installs/Configures apache'
version             '0.2.1'
```

Lab: Commit the Changes

```
$ cd ~/cookbooks/apache
$ git add .
$ git status
$ git commit -m "Update default recipe to use template"
```