

Lab

Create a Web Server

Lab: Setting up a Web Server

- Use chef generate to create a cookbook named "apache"
- ☐ Write a recipe named "server.rb" with the policy:
 - The package named 'httpd' is installed.
 - The file named '/var/www/html/index.html' is created with the content '<h1>Hello, world!</h1>'
 - The service named 'httpd' is started and enabled
- ☐ Include the following node details in index.html:
 - Node's ipaddress
 - Node's hostname
- ☐ Include server.rb in the apache default.rb
- □ Update the version of the **apache cookbook** to 0.2.0
- Run **chef-client** to locally apply the apache cookbook's default recipe. Be sure to include the default.rb in the run-list
- ☐ Verify the site is available by running curl localhost and browsing to your Workstation IP



So this is what we want to see



Hello, world!

ipaddress: 172.31.11.163

hostname: ip-172-31-11-163



Lab: Create a Cookbook



chef generate cookbook cookbooks/apache

```
Compiling Cookbooks...

Recipe: code_generator::cookbook

* directory[/home/chef/cookbooks/apache] action create

- create new directory /home/chef/cookbooks/apache

* template[/home/chef/cookbooks/apache/metadata.rb] action create_if_missing

- create new file /home/chef/cookbooks/apache/metadata.rb

- update content in file /home/chef/cookbooks/apache/metadata.rb from none to

37ed5f

(diff output suppressed by config)

* template[/home/chef/cookbooks/apache/README.md] action create_if_missing

- create new file /home/chef/cookbooks/apache/README.md

-
```



Lab: Create the Server Recipe



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 ]
```



Lab: The Default Recipe Includes the Apache Recipe

cookbooks/apache/recipes/default.rb

```
#
# Cookbook Name:: apache
# Recipe:: default
#
# Copyright (c) 2016 The Authors, All Rights Reserved.
include_recipe 'apache::server'
```



Lab: Update the Cookbook Version

```
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 '0.2.0'
```



Lab: Run chef-client to Apply the Apache Cookbook



\$ sudo chef-client -zr "recipe[apache]"

```
Starting Chef Client, version 12.3.0
resolving cookbooks for run list: ["apache"]
Synchronizing Cookbooks:
- apache
Compiling Cookbooks...
(skipping)
* service[httpd] action enable (up to date)
* service[httpd] action start (up to date)
Running handlers:
Running handlers complete
Chef Client finished, 1/4 resources updated in 29.019528692 seconds
```



Lab: Verify That the Website is Available



\$ curl localhost

```
<h1>Hello, world!</h1>
<h2>ipaddress: 172.31.11.163</h2>
<h2>hostname: ip-176-31-11-163</h2>
```



Lab: Verify That the Website is Available



Hello, world!

ipaddress: 172.31.11.163

hostname: ip-172-31-11-163



