Lab: Workstation Setup
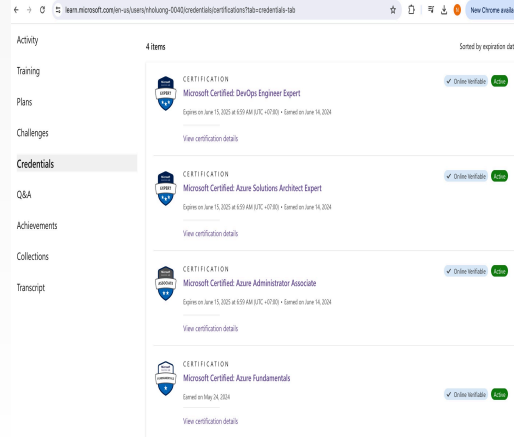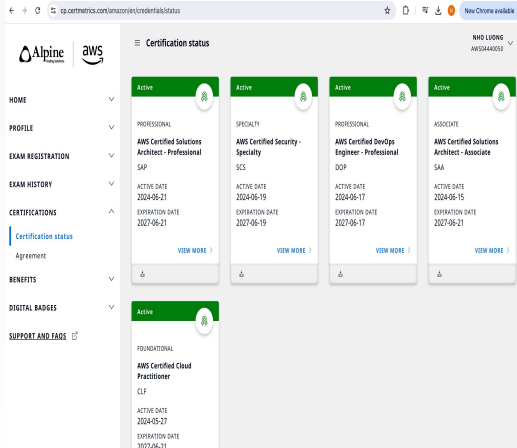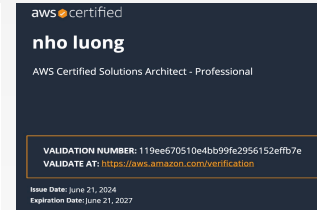
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Lab: Setting up a Web Server

❑ Use `chef generate` to create a cookbook named

❑ Write and apply a recipe named "apache" "**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.

❑ Apply the recipe with chef-client

❑ Verify the site is available by running **curl localhost**

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CHEF

GL: Return to the Home Directory

```
$ cd ~
```

REMOTE

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CHEF

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
      - update content in file /home/chef/cookbooks/apache/README.md from none to
5c3d3
a     (diff output suppressed by config)
```

REMOTE

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CHEF

Lab: Create a Cookbook

$ chef generate recipe cookbooks/apache server

Compiling Cookbooks... Recipe: code_generator::recipe *

directory[cookbooks/apache/spec/unit/recipes] action create (up to date) *

cookbook_file[cookbooks/apache/spec/spec_helper.rb] action create_if_missing (up to date)

 * template[cookbooks/apache/spec/unit/recipes/server_spec.rb] action create_if_missing

      - create new file cookbooks/apache/spec/unit/recipes/server_spec.rb
      - update content in file cookbooks/apache/spec/unit/recipes/server_spec.rb

from none to a43970

    (diff output suppressed by config)

 * template[cookbooks/apache/recipes/server.rb] action create

      - create new file cookbooks/apache/recipes/server.rb - update content in
3d6b92 file cookbooks/apache/recipes/server.rb from no

Remote Network

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Lab: Create the Server Recipe

~/cookbooks/apache/recipes/server.rb

```
package 'httpd'

file   '/var/www/html/index.html'    do
content '<h1>Hello, world!</h1>' end


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

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Lab: Apply the Server Recipe

💻 **$ sudo chef-client -z cookbooks/apache/recipes/server.rb**

```
Converging 3 resources Recipe:
@recipe_files::/home/chef/cookbooks/apache/recipes/server.rb
    * yum_package[httpd] action install
        - install version 2.2.15-47.el6.centos.3 of package httpd
    * file[/var/www/html/index.html] action create - create new file
    /var/www/html/index.html - update content in file /var/www/html/index.html
    from none to 17d291
        --- /var/www/html/index.html        2016-02-24 21:41:45.494844958 +0000
        +++ /var/www/html/.index.html20160224-10036-6y8on72016-02-24 21:41:45.493844958
+000
0
        @@ -1 +1,2 @@
        +<h1>Hello, world!</h1>

    * service[httpd] action enable
        - enable service service[httpd]
```

REMOTE

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Lab: Verify That the Website is Available

```
$ curl localhost
```

```
<h1>Hello, world!</h1>




                                                            REMOTE
```

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Lab: Setting up a Web Server

√ Use chef `generate` to create a cookbook named "apache".

√ Write and apply 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
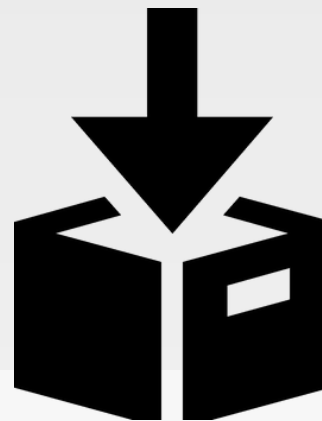'<h1>Hello, world!</h1>'

The service named 'httpd' is started and enabled.

√ Apply the recipe with chef-client

√ Verify the site is available by running **curl localhost**

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CHEF

COMMIT

GL: Commit Your Work

$ cd cookbooks/apache $ git init $ git add . $ git commit -m "Initial commit"

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Discussion

What file would you read first when examining a cookbook? What other recipes might you include in the apache or workstation cookbook? Can resources accept multiple actions? How often would you commit changes with version control?

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Thank You

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