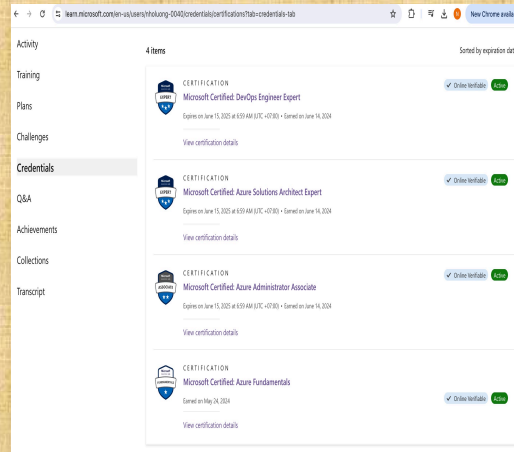
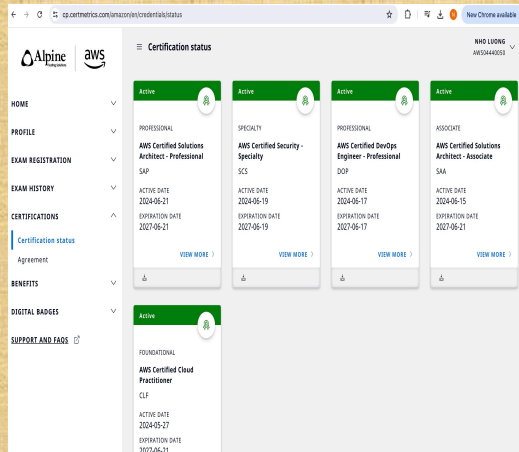


Lab: Workstation Setup

Author: Nho Luong

Skill: DevOps Engineer Lead





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`

GL: Return to the Home Directory



```
$ cd ~
```

REMOTE

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

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

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
```


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

Lab: Verify That the Website is Available



```
$ curl localhost
```

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

REMOTE



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`**

COMMIT

GL: Commit Your Work

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





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?



Thank You