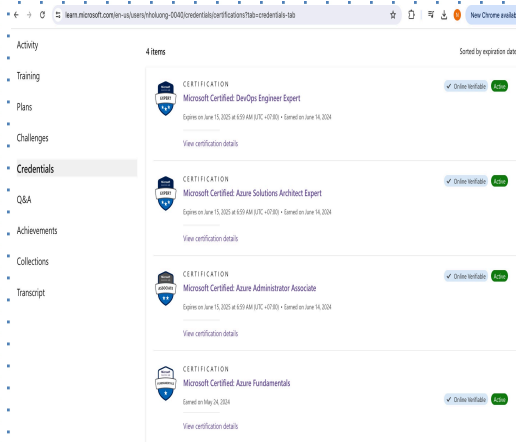
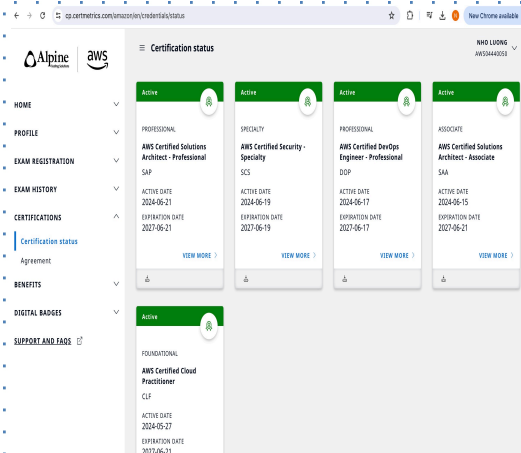


Cookbooks Components

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Skill: DevOps Engineer Lead



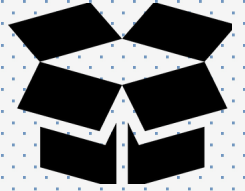
GL: Create a Cookbooks Directory



```
$ mkdir
```

```
cookbooks
```

LOCAL



What is 'chef'?

An executable program that allows you generate cookbooks and cookbook components.

What can 'chef' do?



```
$ chef --
```

help

```
Usage: chef -h/--help chef -v/--version chef  
command [arguments...] [options...]
```

Available

chef	Runs the command in context of the embedded ruby
gem	Runs the `gem` command in context of the
generate	embedded ruby Generate a new app, cookbook, or
shell-init	Initialize your shell to use ChefDK as your primary ruby
install	Install cookbooks from a Policyfile and generate a locked
update	cookbook... Updates a Policyfile.lock.json with latest run_list and
	cookbooks

REMOTE

What Can 'chef generate' Do?



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

```
Usage: chef generate GENERATOR
```

```
[options]
```

```
Available
```

```
generators: Generate an application repo Generate
cookbook a single cookbook Generate a new
recipe recipe Generate an attributes file
attribute Generate a file template Generate a
template cookbook file Generate a lightweight
file lwrp resource/provider Generate a Chef
repo policy repository
policyfile Generate a Policyfile for use with the install/push
commands
```

REMOTE

GL: Let's Create a Cookbook



```
$ chef generate cookbook cookbooks/workstation
```

Compiling Cookbooks... Recipe:

```
code_generator::cookbook *
```

```
directory[/home/chef/workstation] action create
```

```
- create new directory /home/chef/workstation
```

```
* template[/home/chef/workstation/metadata.rb] action
```

```
create_if_missing file /home/chef/workstation/metadata.rb - update content in  
file /home/chef/workstation/metadata.rb from none to bd85d3 (diff output  
suppressed by config)
```

```
* template[/home/chef/workstation/README.md] action
```

```
create_if_missing file /home/chef/workstation/README.md - update content in  
file /home/chef/workstation/README.md from none to 44d165 (diff output  
suppressed by config)
```

```
* cookbook_file[/home/chef/workstation/chefignore] action create
```

REMOTE

GL: The Cookbook Has a README



```
$ tree cookbooks/workstation
```

```
workstation
```

```
├-- Berksfile
```

```
├--
```

```
chefignore
```

```
├--
```

```
metadata.rb
```

```
├--┬--
```

```
README.md
```

```
spec
```

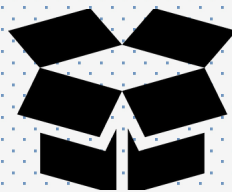
```
| spec_helper.rb
```

```
| ┬--┬-- unit
```

```
| └-- recipes
```

```
10 directories, 9 files
```

REMOTE



README.md

The description of the cookbook's features written in Markdown.

<http://daringfireball.net/projects/markdown/syntax>

GL: The Cookbook Has Some Metadata



```
$ tree
```

```
cookbooks/workstation
```

```
├── Berkfile
```

```
└──
```

```
chefignore
```

```
└──
```

```
metadata.rb
```

```
├──└──
```

```
README.md
```

```
spec/recipes
```

```
| spec_helper.rb
```

```
| └──└── unit
```

```
| recipes
```

```
10 directories, 1 defaultspec.rb
```

REMOTE

DOCS

metadata.rb



Every cookbook requires a small amount of metadata. Metadata is stored in a file called `metadata.rb` that lives at the top of each cookbook's directory.

http://docs.chef.io/config_rb_metadata.html

GL: Let's Take a Look at the Metadata



```
$ cat cookbooks/workstation/metadata.rb
```

```
name          'workstation'  
maintainer    'The Authors'  
maintainer_email  
license       'CC-BY-NC-SA'  
author_email  'you@example.com'  
description   'workstation'  
long_description 'Installs/Configures workstation'  
version       '0.1.0'
```

REMOTE

GL: The Cookbook Has a Folder for Recipes



```
$ tree cookbooks/workstation
```

```
workstation
```

```
├── Berkshelf
```

```
├──
```

```
chefignore
```

```
├──
```

```
metadata.rb
```

```
├──└── default.rb
```

```
README.md
```

```
spec/recipes
```

```
| spec_helper.rb
```

```
| └── unit
```

```
| recipes └── default_spec.rb
```

```
10 directories, 9 files
```

REMOTE

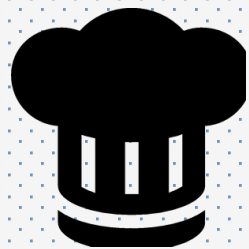
GL: The Cookbook Has a Default Recipe



```
$ cat cookbooks/workstation/recipes/default.rb
```

```
# Cookbook Name:: workstation # Recipe:: default # # Copyright (c) 2016  
The Authors, All Rights Reserved.
```

REMOTE



GL: Create a Cookbook

How are we going to manage this file? Does it need a README?

Objective:

- ✓ Use chef to generate a cookbook Move the
- ✓ setup recipe into the new cookbook Add the
- ✓ new cookbook to version control

GL: Copy the Recipe into the Cookbook



```
$ mv setup.rb
```

```
cookbooks/workstation/recipes
```

GL: Verify the Cookbook has the Recipe



```
$ tree
```

```
cookbooks/workstation
```

```
cookbooks/workstation
```

```
on |-- Berkfile
```

```
|-- chefnore
```

```
|-- metadata.rb
```

```
|-- README.md
```

```
|-- recipes
```

```
|  |--
```

```
|  default.rb
```

```
|  |--|-- setup.rb
```

```
spec|--
```

```
|  spec_helper.rb
```

```
|  |--|-- unit
```

LOCAL



Thank You