Cookbooks Components
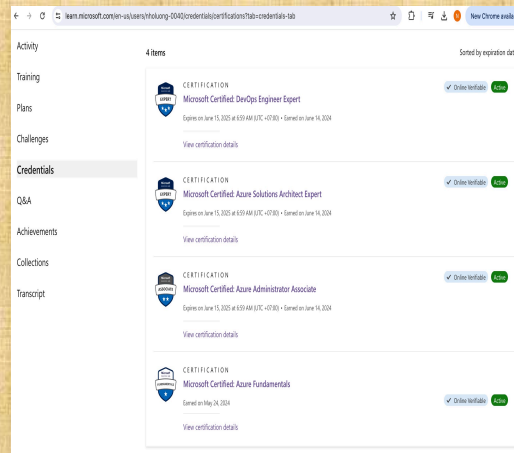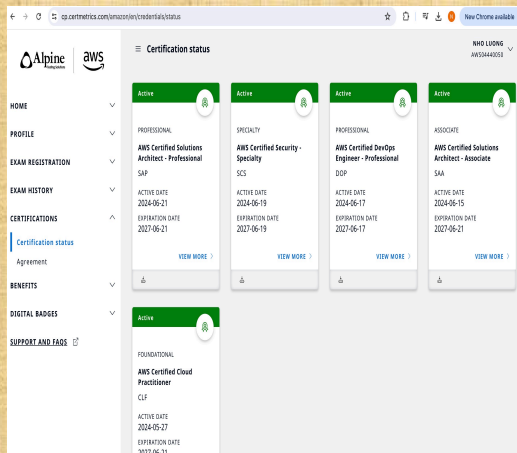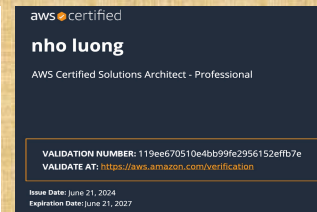
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GL: Create a Cookbooks Directory

```
$ mkdir
cookbooks
```

LOCAL

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CHEF

CONCEPT

What is 'chef'?

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

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CHEF

What can 'chef' do?

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



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

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What Can 'chef generate' Do?

```
$ chef generate --help

UsaGL: 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

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CHEF

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 /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 /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

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GL: The Cookbook Has a README

```
$ tree cookbooks/workstation
```

```
workstation
├── Berksfile
├──
chefignore
├──
metadata.rb
├── └──
README.md
spec recipes
│   spec_helper.rb
│   └── unit
│       recipes
10 directories defaultespec.rb
```

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REMOTE

CONCEPT
README.md

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

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

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```
$ tree
cookbooks/workstation
├── Berksfile
├──
chefignore
├──
metadata.rb
├──└──
README.md
├── default.rb
spec └── recipes
│   spec_helper.rb
│   └── unit
│       recipes
10 directories, default_spec.rb
```

REMOTE

CHEF

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

CHEF

GL: Let's Take a Look at the Metadata

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

```
name                'workstation'
maintaine           'The Authors'
maintainer_email
your@example.com    all_rights' 'Installs/Configures
license
description         workstation'
long_description 'Installs/Configures workstation'
version             '0.1.0'
```

REMOTE

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CHEF

GL: The Cookbook Has a Folder for Recipes

```
$ tree cookbooks/workstation

workstation
├── Berksfile
├──
chefignore
├──
metadata.rb
├──└── default.rb
README.md
spec─recipes
│   spec_helper.rb
│   └──unit
│      recipes─ default_spec.rb
10 directories, 9 files
```

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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

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CHEF

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

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GL: Copy the Recipe into the Cookbook

```
$ mv setup.rb
cookbooks/workstation/recipes
```

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CHEF

GL: Verify the Cookbook has the Recipe

```
$ tree
```

cookbooks/workstation

```
cookbooks/workstati
on ├── Berksfile
├── chefignore
├── metadata.rb
├── README.md
├── recipes
│   ├──
│   default.rb
├──└── setup.rb
spec├──
│   spec_helper.rb
│   └──└─unit
│   recipes
    default_spec.rb
```

LOCAL

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Thank You

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