Test vs Repair

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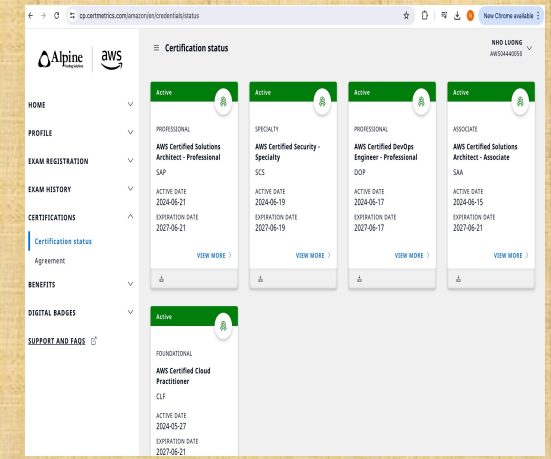

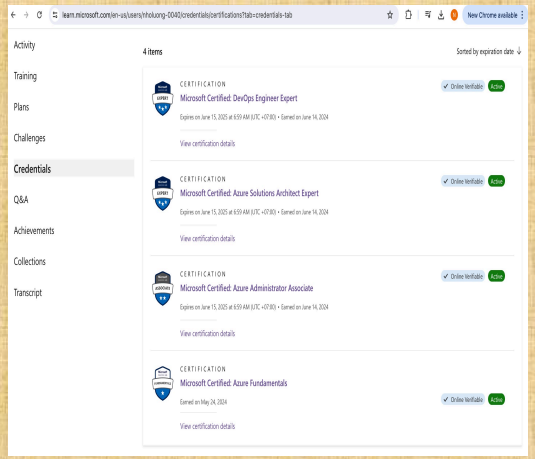

CONCEPT

chef-client

chef-client is an agent that runs locally on every node that is under management by Chef. When a chef-client is run, it will perform all of the steps that are required to bring the node into the expected state.

https://docs.chef.io/chef_client.html

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CHEF

CONCEPT

--local-mode (or -z)

chef-client's default mode attempts to contact a Chef Server and ask it for the recipes to run for the given node. We are overriding that behavior to have it work in a local mode.

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CHEF

GL: Apply the Setup Recipe

```
$ sudo chef-client –-local-mode hello.rb
```

```
Starting Chef Client, version 12.5.1 resolving cookbooks for run list: [] Synchronizing Cookbooks:
Compiling Cookbooks... [2016-02-19T13:08:13+00:00] WARN: Node ip-172-31-12-176.ec2.internal
has an empty run list. Converging 1 resources Recipe: @recipe_files::/home/chef/moo.rb  *
yum_package[nano] action install

    - install version 3.03-8.e16 of package cowsay
Running handlers: Running handlers complete Chef Client
finished, 1/1 resources updated in 38 seconds
```

LOCAL

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CHEF

Discussion

What would happen if the 'hello.txt' file contents were modified?

Test and Repair

What would happen if the file permissions (mode), owner, or group changed? Have we defined a policy for these properties?

CONCEPT

Test and Repair

chef-client takes action only when it needs to. Think of it as test and repair. Chef looks at the current state of each resource and takes action only when that resource is out of policy.

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CHEF

Lab: The file Resource

- Read https://docs.chef.io/resources.html
- Discover the file resource's:
  - default action.
  - default values for mode, owner, and group.
- Update file policy in "hello.rb" to:

  The file named 'hello.txt' should be created with the content 'Hello, world!', mode '0644', owner is 'root', and group is 'root'.

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CHEF

Lab: The Updated file Resource

```
~/hello.rb file 'hello.txt' do
  content 'Hello, world!'
  mode '0644'
  owner 'root'
  group 'root'
  action :create
end
```

The default mode is set by the POSIX Access Control Lists.

The default owner is the current user (could change).

The default group is the POSIX group (if available).

The default action is to create (not necessary to define it).

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Lab: The file Resource

- ✓ Read https://docs.chef.io/resources.html
- ✓ Discover the file resource's:
  - default action.
  - default values for mode, owner, and group.
- ✓ Update file policy in "hello.rb" to:

```
file 'hello.txt' do
  content 'Hello, world!'
end
```

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Thank You

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