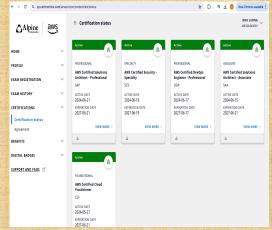
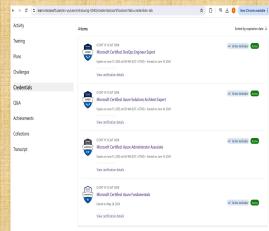
Template Files

Author: Nho Luong
Skill: DevOps Engineer Lead









EXERCISE Let's Add a Template!



Adding all the information into the recipe did make it hard to read.

Objective:

- Create a template with chef generate Define the
- contents of the ERB template Change the file
- resource to the template resource Update the
- cookbook's version number Apply the updated
- recipe and verify the results

Author: Nho Luong



GL: What Can chef generate Do?



\$ chef generate --help

UsaGL: chef generate GENERATOR [options]

Available generators:

Generate an application repo Generate a single app cookbook cookbook Generate a new recipe Generate an attributes file Generate a file template Generate a recipe attribute cookbook file Generate a lightweight template file resource/provider Generate Chef policy repository lwrp repo

policyfile Generate a Policyfile for use with the install/push commands (experimental)

Author: Nho Luong



GL: What Can chef generate template

Do?



\$ chef generate template --help

UsaGL: chef generate template [path/to/cookbook] NAME [options]

-C, --copyright COPYRIGHT

defaults to 'The Authors'

-m, --email EMAIL

to ...

-a, --generator-arg KEY=VALUE

VALUE in the

-I, --license LICENSE

- defaults to

-s, --source SOURCE FILE

GENERATOR_COOKBOOK_PATH, code_generator

--generator-cookbook

Name of the copyright holder -

Email address of the author - defaults

Use to set arbitrary attribute KEY to

all_rights, apache2, mit, gplv2, gplv3

Copy content from SOURCE_FILE

Use GENERATOR_COOKBOOK_PATH for the

LOCAL



Generating a motd Template



> chef generate template cookbooks/workstation motd

Recipe: code_generator::template
* directory[cookbooks/workstation/templates/default] action
create

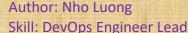
 create new directory cookbooks/workstation/templates/default

* template[cookbooks/workstation/templates/motd.erb] action create

- create new file cookbooks/workstation/templates/motd.erb
- update content in file

cookbooks/workstation/templates/motd.erb from none to e3b0c4

(diff output suppressed by config)





Examining the templates Directory



> tree cookbooks/workstation/templates

cookbooks/workstation/templates/ —— default

--- motd.erb

1 directory, 1 file

Author: Nho Luong Skill: DevOps Engineer Lead





Cleaner Recipes

Adding the node attributes to the default page did make it harder to read the recipe.

Objective:

- ✓ Create a template with chef generate Define the contents of the ERB
- √ template Change the file resource to the template resource in the 'apache'
- ∨ cookbook

Author: Nho Luong



CORICEPII ERB



An Embedded Ruby (ERB) template allows Ruby code to be embedded inside a text file within specially formatted tags. Ruby code can be embedded using expressions and statements.

https://docs.chef.io/templates.html#variables

Author: Nho Luong



<% if (50 + 50) == 100 %> 50 + 50 = <%= 50 + 50 %> <% else %> At some point all of MATH I learned in school changed. <% end %>

Each ERB tag has a beginning tag and a matched ending tag.

Author: Nho Luong



<% if (50 + 50) == 100 %> 50 + 50 = <%= 50 + 50 %> <% else %> At some point all of MATH I learned in school changed. <% end %>

Each ERB tag has a beginning tag and a matched ending tag.

Author: Nho Luong



<% if (50 + 50) == 100 %> 50 + 50 = <%= 50 + 50 %> <% else %> At
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Author: Nho Luong



<% if (50 + 50) == 100 %> 50 + 50 = <%= 50 + 50 %> <% else %> At some point all of MATH I learned in school changed. <% end %>

Executes the ruby code within the brackets and do not display the result.

Author: Nho Luong



<% if (50 + 50) == 100 %> 50 + 50 = <%= 50 + 50 %> <% else %> At some point all of MATH I learned in school changed. <% end %>

Executes the ruby code within the brackets and display the results.

Author: Nho Luong



ONCEPT The Angry Squid



<0/0=

7-13

Author: Nho Luong



Copying the Existing Content into the Template

~/cookbooks/workstation/templates/motd.erb

Property of ...

IPADDRESS: #{node['ipaddress']}

HOSTNAME: #{node['hostname']}

MEMORY : #{node['memory']['total']}

CPU : #{node['cpu']['0']['mhz']}

Author: Nho Luong



Changing String Interpolation to ERB Tags

~/cookbooks/workstation/templates/motd.erb

```
Property of ...
```

IPADDRESS: <%= node['ipaddress'] %>

HOSTNAME: <%= node['hostname'] %>

MEMORY : <%= node['memory']['total'] %>

CPU : <%= node['cpu']['0']['mhz'] %>

Author: Nho Luong



EXERCISE Cleaner Recipes



The template is created and defined. It now needs to be used within the recipe.

Objective:

- ✓ Create a template with chef generate Define the
- ✓ contents of the ERB template Change the file
- √ resource to the template resource Update the
- √ cookbook's version number Apply the updated
- ✓ recipe and verify the results

Author: Nho Luong





Author: Nho Luong