Template Files

Author: Nho Luong
Skill: DevOps Engineer Lead



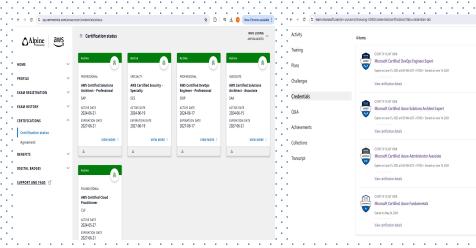


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Sorted by expiration date

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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
- in resource to the template resource Update the
- cookbook's version number Apply the updated
- ☐ recipe and verify the results

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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 recipe attributes file Generate a file template Generate a attribute cookbook file Generate lightweight a template file resource/provider Generate Chef policy lwrp repo repository

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

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GL: What Can chef generate template





\$ chef generate template --help

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

-C, --copyright COPYRIGHT Name of the copyright holder -

defaults to 'The Authors'

-m, --email EMAIL **Email address of the author - defaults**

to ...

-a, --generator-arg KEY=VALUE Use to set arbitrary attribute KEY to

VALUE in the

-I, --license LICENSE all rights, apache2, mit, gplv2, gplv3

- defaults to

-s, --source SOURCE FILE

GENERATOR COOKBOOK PATH, code generator

--generator-cookbook

Copy content from SOURCE FILE

Use GENERATOR COOKBOOK PATH for the



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/

---- motd.erb

1 directory, 1 file

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Cleaner Recipes

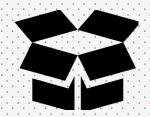
Adding the node attributes to the default page did make it harder to read the recipe.

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

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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

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<% 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.



<% 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.





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



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

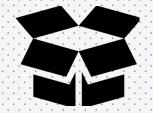
Executes the ruby code within the brackets and do not display the result.



<% 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.





The An ir Squid

7-13

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Copying the Existing Content into the Template

~/cookbooks/workstation/templates/motd.erb

```
Property of ...
```

IPADDRESS: #{node['ipaddress']}

HOSTNAME: #{node['hostname']}

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

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





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'] %>







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
- v contents of the ERB template Change the file
- Viresource to the template resource Update the
- ∨ cookbook's version number Apply the updated
- verify the results

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