

chef-client

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Skill: DevOps Engineer Lead



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HOME

PROFILE

EXAM REGISTRATION

EXAM HISTORY

CERTIFICATIONS

Certification status

Agreement

BENEFITS

DIGITAL BADGES

SUPPORT AND FAQs

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AWS04440050

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Activity

Training

Plans

Challenges

Credentials

Q&A


Achievements

Collections

Transcript

4 items

Sorted by expiration date




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chef-client

```
$ sudo chef-client --local-mode RECIPE_FILE
```

How would we apply both the workstation's setup recipe and apache's server recipe?

Objectives

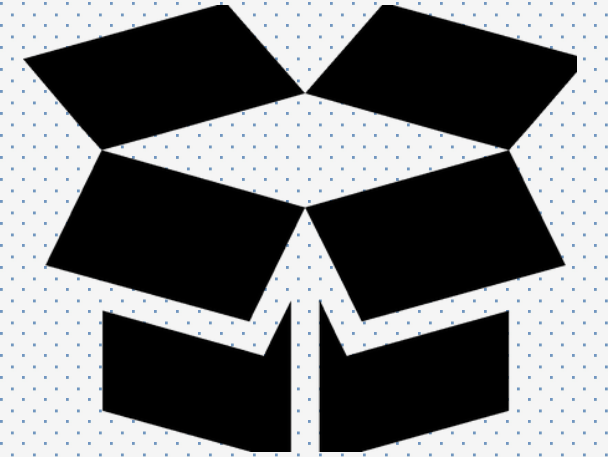
After completing this module, you should be able to use chef-client to:

- ➤ Locally apply multiple cookbooks' recipes with chef-client.
Include a recipe from within another recipe.

CONCEPTS

--local-mode

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.



COOKBOOK

```
--run-list "recipe[COOKBOOK::RECIPE]"
```



In local mode, we need to provide a list of recipes to apply to the system. This is called a **run list**. A run list is an ordered collection of recipes to execute. Each recipe in the run list must be addressed with the format `recipe[COOKBOOK::RECIPE]`.

Demo: Using 'chef-client' to Locally Apply Recipes

```
$ sudo chef-client --local-mode -r "recipe[workstation::setup]"
```

Applying the following recipes locally:

The 'setup' recipe from the 'workstation' cookbook

Demo: Using 'chef-client' to Locally Apply Recipes

```
$ sudo chef-client --local-mode -r "recipe[apache::server]"
```

Applying the following recipes locally:

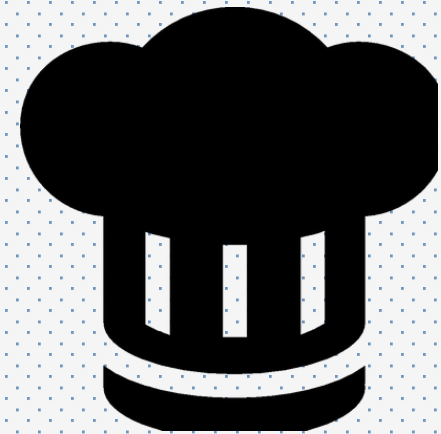
The 'server' recipe from the 'apache' cookbook

Demo: Using 'chef-client' to Locally Apply Recipes

```
$ sudo chef-client --local-mode \  
-r "recipe[workstation::setup],recipe[apache::server]"
```

Applying the following recipes locally:

- The 'setup' recipe from the 'workstation' cookbook
- The 'server' recipe from the 'apache' cookbook



Applying a Run List

Using a run list will allow us to specify things more 'logically' instead of with paths.

Objective:

- ☐ Individually apply the apache cookbook's server recipe and workstation cookbook's setup recipe
- ☐ Apply both the apache cookbook's server recipe and workstation cookbook's setup recipe

GL: Return Home First



```
$ cd ~
```

LOCAL

GL: Apply the Cookbook Recipe Locally



```
$ sudo chef-client --local-mode -r "recipe[apache::server]"
```

```
[2016-09-15T14:54:45+00:00] WARN: No config file found or specified on command line, using command line options.
```

```
Starting Chef Client, version 12.3.0
```

```
resolving cookbooks for run list: ["apache::server"]
```

```
Synchronizing Cookbooks:
```

```
- apache
```

```
Compiling Cookbooks...
```

```
Converging 4 resources
```

```
Recipe: apache::server
```

- * yum_package[httpd] action install (up to date)
- * file[/var/www/html/index.html] action create (up to date)
- * service[httpd] action enable (up to date)

LOCAL

GL: Apply the Cookbook Recipe Locally



```
$ sudo chef-client --local-mode -r "recipe[workstation::setup]"
```

```
[2016-09-15T15:15:26+00:00] WARN: No config file found or specified on command line, using command line options.
```

```
Starting Chef Client, version 12.3.0
```

```
resolving cookbooks for run list: ["workstation::setup"]
```

```
Synchronizing Cookbooks:
```

```
- workstation (0.1.0)
```

```
Compiling Cookbooks...
```

```
Converging 4 resources
```

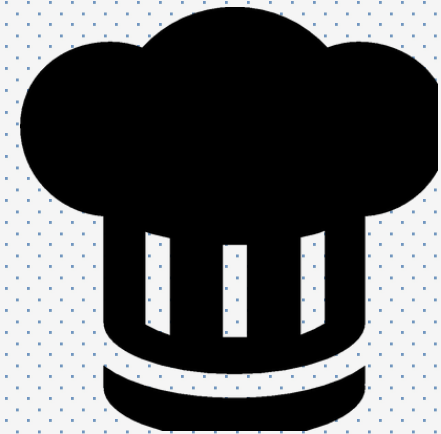
```
Recipe: workstation::setup
```

```
* yum_package[tree] action install (up to date)
```

```
* yum_package[git] action install (up to date)
```

```
* file[/etc/motd] action create (up to date)
```

LOCAL



Applying a Run List

Using a run list will allow us to specify things more 'logically' instead of with paths.

Objective:

- ✓ Individually apply the apache cookbook's server recipe and workstation cookbook's setup recipe
- ✓ Apply both the apache cookbook's server recipe and workstation cookbook's setup recipe

GL: Apply Both Recipes Locally



```
$ sudo chef-client --local-mode \  
-r "recipe[apache::server],recipe[workstation::setup]"
```

```
[2016-09-15T15:17:27+00:00] WARN: No config file found or specified on  
command line, using command line options.
```

```
Starting Chef Client, version 12.3.0
```

```
resolving cookbooks for run list: ["apache::server","workstation::setup"]
```

```
Synchronizing Cookbooks:
```

- apache
- workstation

```
Compiling Cookbooks...
```

```
Running handlers: [2016-09-15T15:17:30+00:00] ERROR: Running  
exception handlers Running handlers complete
```

LOCAL



Thank You