

# DOCS

## Resources



A resource is a statement of configuration policy.

It describes the desired state of an element of your infrastructure and the steps needed to bring that item to the desired state.

<https://docs.chef.io/resources.html>

# Example: Package

```
package 'httpd' do  
  action :install  
end
```

The package named 'httpd' is installed.

[https://docs.chef.io/resource\\_package.html](https://docs.chef.io/resource_package.html)

# Example: Service

```
service 'ntp' do
  action [ :enable, :start ]
end
```

The service named 'ntp' is enabled (start on reboot) and started.

[https://docs.chef.io/resource\\_service.html](https://docs.chef.io/resource_service.html)

# Example: File

```
file '/etc/motd' do  
  content 'This computer is the property ...'  
end
```

The file name '/etc/motd' is created with content 'This computer is the property ...'

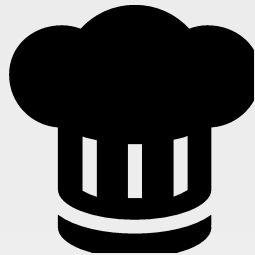
[https://docs.chef.io/resource\\_file.html](https://docs.chef.io/resource_file.html)

# Example: File

```
file '/etc/php.ini.default' do  
  action :delete  
end
```

The file name '/etc/php.ini.default' is deleted.

[https://docs.chef.io/resource\\_file.html](https://docs.chef.io/resource_file.html)



# GL: Hello, World?

*I heard Chef is written in Ruby. If that's the case its required that we write a quick "Hello, world!" application.*

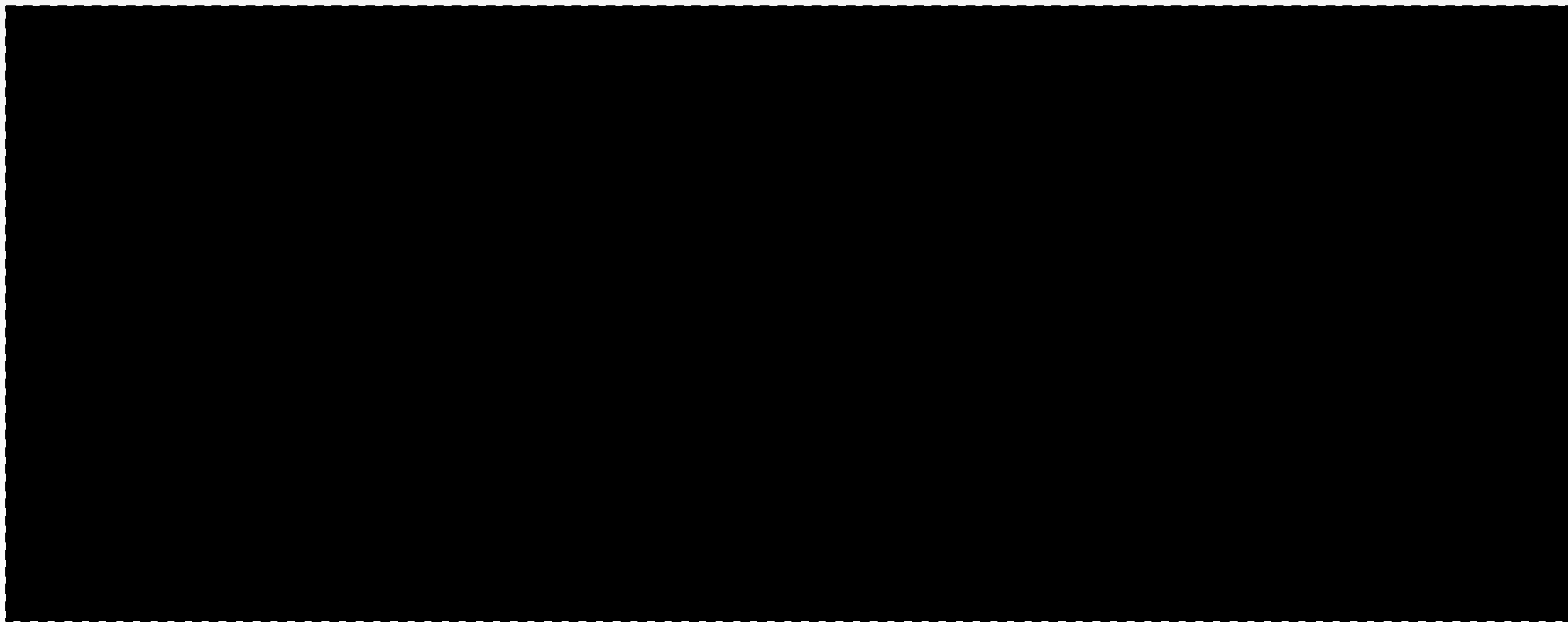
## Objective:

- ☐ Create a recipe that writes out a file with the contents "Hello, world!"
- ☐ Apply that recipe to the workstation
- ☐ Verify the contents of the file

# GL: Create and Open a Recipe File



```
$ nano hello.rb
```



# GL: Create a Recipe File Named hello.rb

```
~/hello.rb
```

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

The file named '/hello.txt' is created with the content 'Hello, world!'

<https://docs.chef.io/resources.html>



# GL: Apply the Recipe File



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

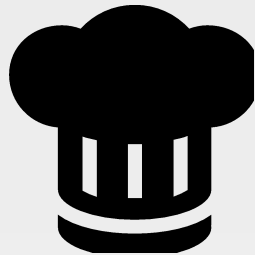
```
Starting Chef Client, version 12.5.1
resolving cookbooks for run list: []
Synchronizing Cookbooks:
Compiling Cookbooks...
[2016-02-19T13:08:13+00:00] WARN: Node ip-172-31-12-176.ec2.internal has an empty run list.
Converging 1 resources
Recipe: @recipe_files::/home/chef/hello.rb
  * file[hello.txt] action create
    - create new file hello.txt
    - update content in file hello.txt from non to 315f5b
  +++ ./hello.txt20160224-8559-19kqial
    2016-02-24 16:51:04.400844959 +0000
  @@ -1 +1,2 @@
  +Hello, world!
```

# GL: What Does hello.txt Say?



```
$ cat /hello.txt
```

```
Hello, world!
```



# GL: Hello, World?

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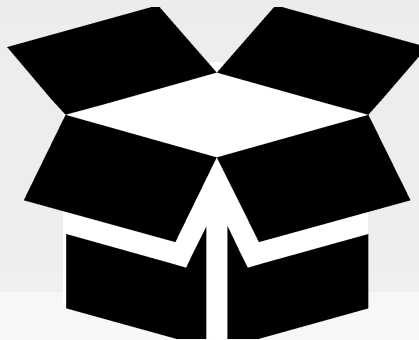
## Objective:

- ✓ Create a recipe that writes out a file with the contents "Hello, world!"
- ✓ Apply that recipe to the workstation
- ✓ Verify the contents of the file

# CONCEPT

## Resource Definition

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



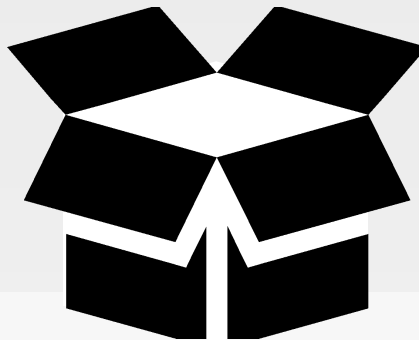
The **TYPE** named **NAME** should be **ACTION'd** with **PROPERTIES**

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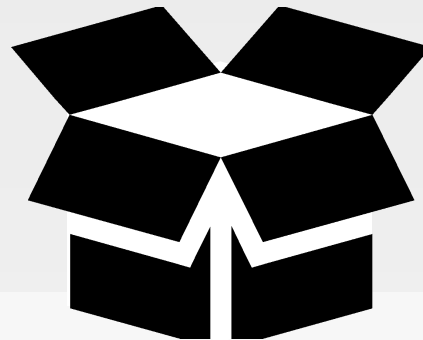
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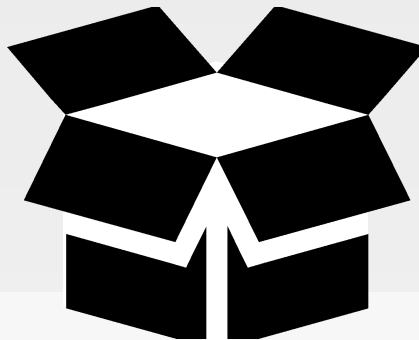
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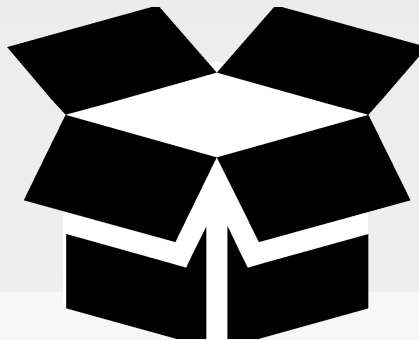
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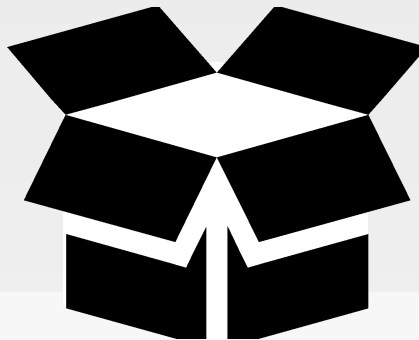
# CONCEPT

## Resource Definition

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

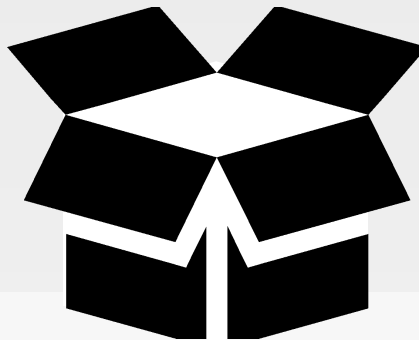
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The **TYPE** named **NAME** should be **ACTION'd** with  
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# CONCEPT

## Resource Definition



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

If no **ACTION** is listed, the default action is applied.

<https://docs.chef.io/resource.html#resources-syntax>