

Automation of SysAdmin using Chef



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Components

Components

- **Chef-Server**
- **Chef-Client (node)**
- **Knife**
- **Cookbooks**
 - **Recipes**
 - **LWRP (Lightweight Resource Provider)**
 - **Attributes**
 - **Templates**
 - **Data Bags**

Recipes & Cookbooks?

Recipes & Cookbooks?

What are they?

Where do I get them?

How can I customize them?

Structure

What are they?

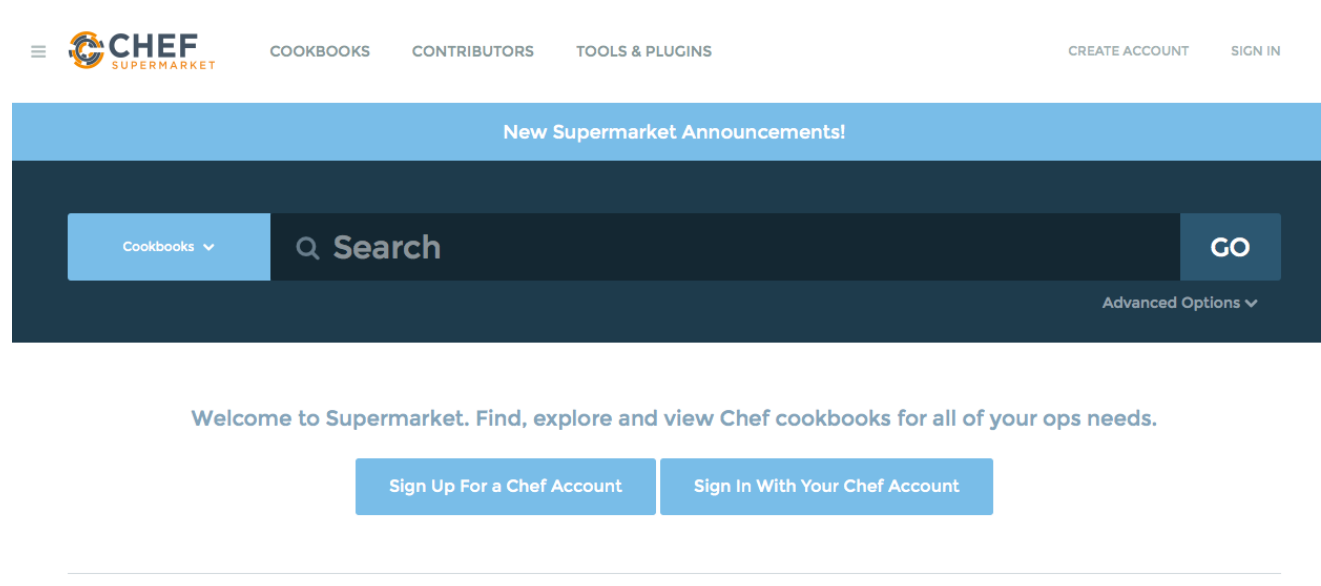
A recipe is a list of instructions on how to install and configure a specific package/system/component.

They accomplish what recipes accomplish in real life, tell us how to bake a cake.

A cookbook is a collection of recipes, so the CAKE cookbook will have a number of recipes, eg Chocolate, Orange, etc etc

Where do I get them?

Where do you usually get your ingredients from, the supermarket of course. They most commonly used cookbooks are available @ <https://supermarket.chef.io/>. These cookbooks are preconfigure and useable without any modification. These include Apache, Mysql, Tomcat, Postgres, Java, Microsoft SQL



How can I customize them?

- Fork them on Github
- Include them into you own recipe (List as dependency)

Structure

```

-rw-r--r--  1 501  20   142 Apr 22 15:01 Berksfile
-rw-----  1 501  20   311 May 21 14:23 Berksfile.lock
-rw-r--r--  1 501  20    36 Feb 13 10:13 CHANGELOG.md
-rw-r--r--  1 501  20   449 Feb 13 10:13 Gemfile
-rw-r--r--  1 501  20    72 Feb 13 10:13 LICENSE
-rw-r--r--  1 501  20  1693 Feb 13 10:13 README.md
-rw-r--r--  1 501  20   241 Feb 13 10:13 Thorfile
-rw-r--r--  1 501  20  4792 May 20 09:22 Vagrantfile
drwxr-xr-x  3 501  20   102 May 20 09:30 attributes
-rw-r--r--  1 501  20   960 Feb 13 10:13 chefignore
drwxr-xr-x  3 501  20   102 Feb 13 10:13 files
-rw-r--r--  1 501  20   319 May 18 09:15 metadata.rb
drwxr-xr-x  6 501  20   204 May 20 09:28 recipes
drwxr-xr-x  3 501  20   102 Feb 13 10:13 templates
  
```

Abstraction is Key

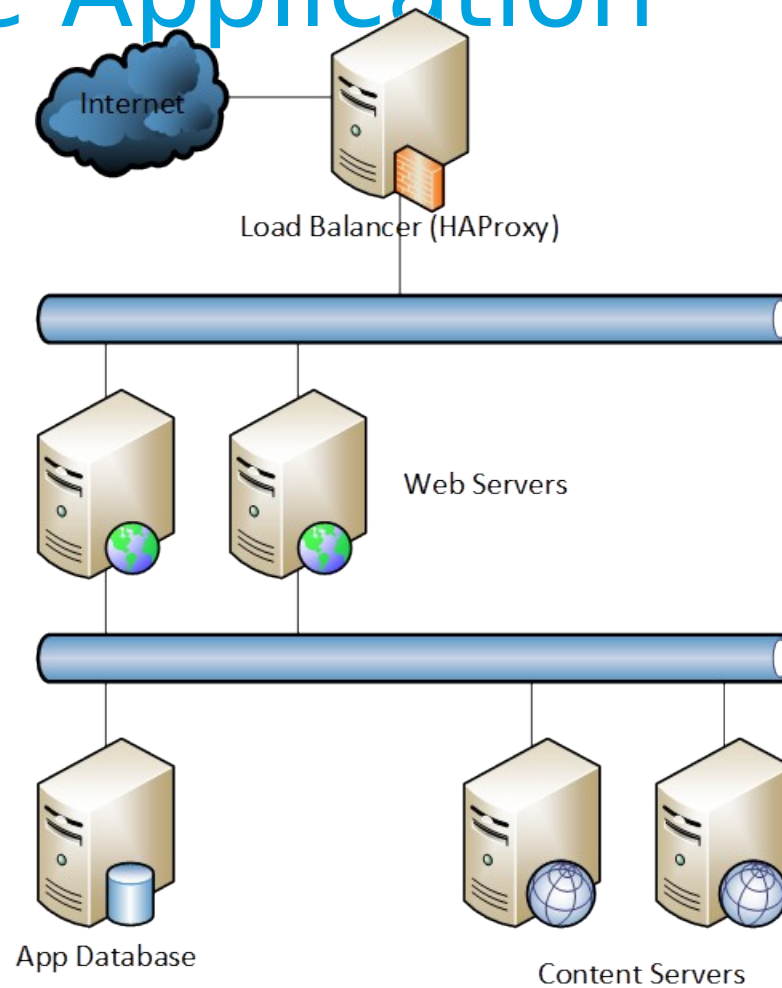
Abstraction

```
package "nginx" do
  action :install
end

service "mysql" do
  action [:enable, :start]
end
```

Example Application

Example Application



Section header

Subhead





Thank You

