

# Community Cookbooks

Find, Explore and View Chef Cookbooks

# Objectives

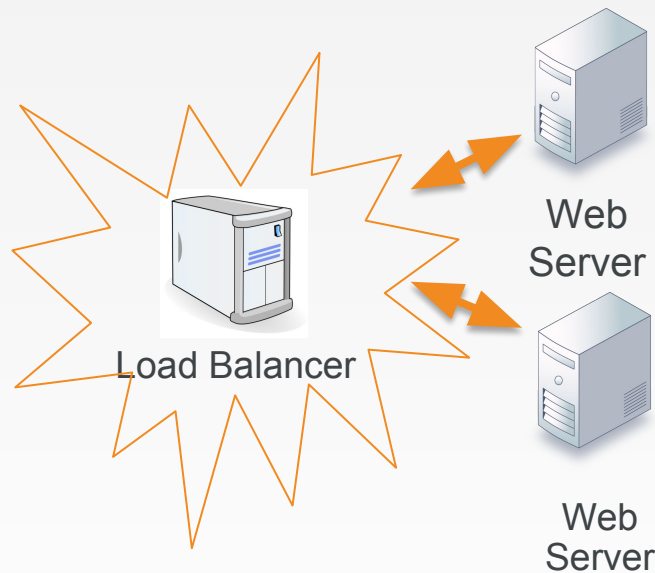
After completing this module, you should be able to

- Find cookbooks on the Chef Super Market
- Create a wrapper cookbook
- Replace the existing default values
- Upload a cookbook to Chef Server
- Bootstrap a new node that runs the cookbook

# Load Balancer

Adding a load balancer will allow us to better grow our infrastructure.

Receives requests and relays them to other systems.

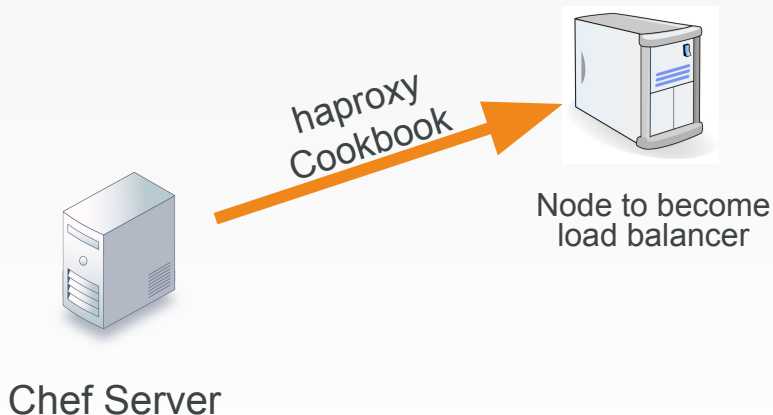


# Load Balancer

Work that needs to be accomplished to setup a load balancer within our infrastructure:

Write a haproxy (load balancer) cookbook.

We will need to establish a new node within our organization to which we apply that cookbook.



# Community Cookbooks

Someone already wrote that cookbook?

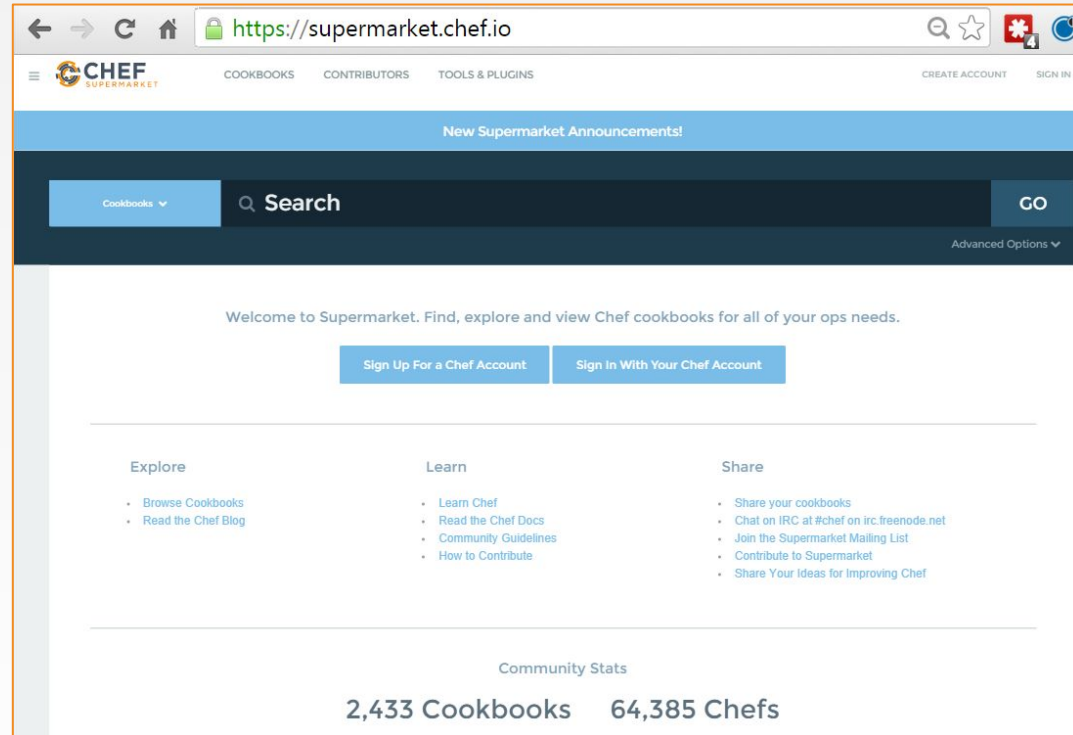
Available through the community site called  
Supermarket/

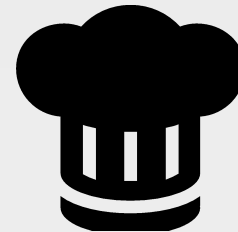
<https://supermarket.chef.io>



# Community Cookbooks

- Community cookbooks are managed by individuals.
- Chef does not verify or approve cookbooks in the Supermarket.
- Cookbooks may not work for various reasons.
- Still, there are real benefits to community cookbooks.





# Load Balancer

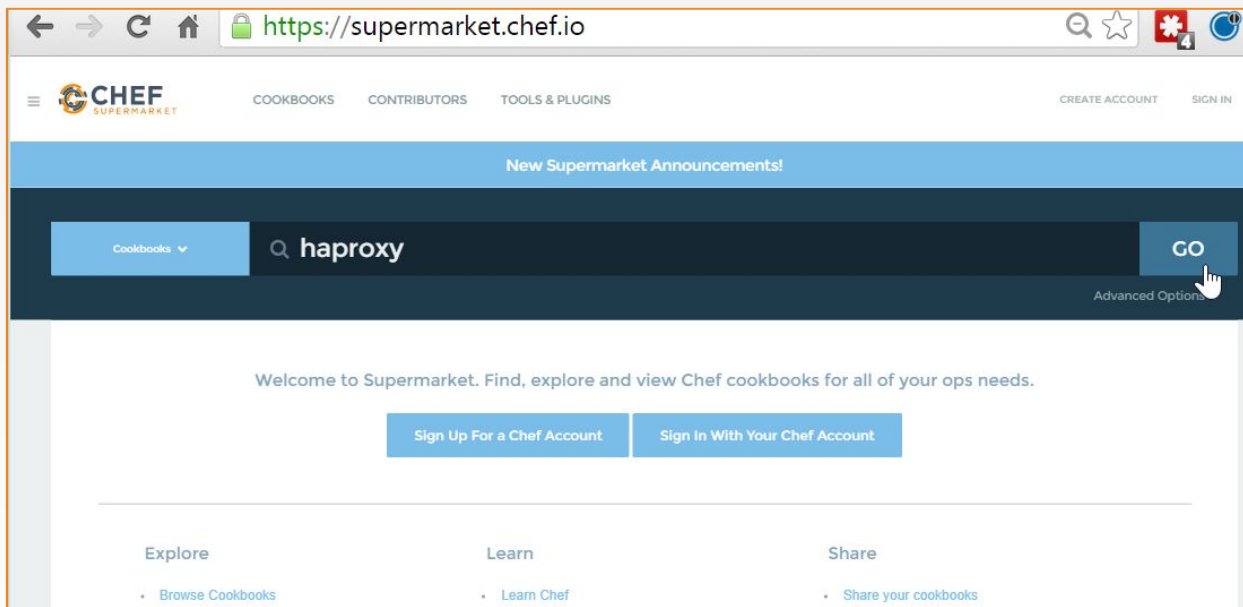
*Adding a load balancer will allow us to better grow our infrastructure.*

## Objective:

- ☐ Find or Create a Cookbook to Manage a load balancer
- ☐ Configure the load balancer to send traffic to the new node
- ☐ Upload cookbook to Chef Server
- ☐ Bootstrap a new node that runs the haproxy (load balancer) cookbook

# Searching in the Supermarket

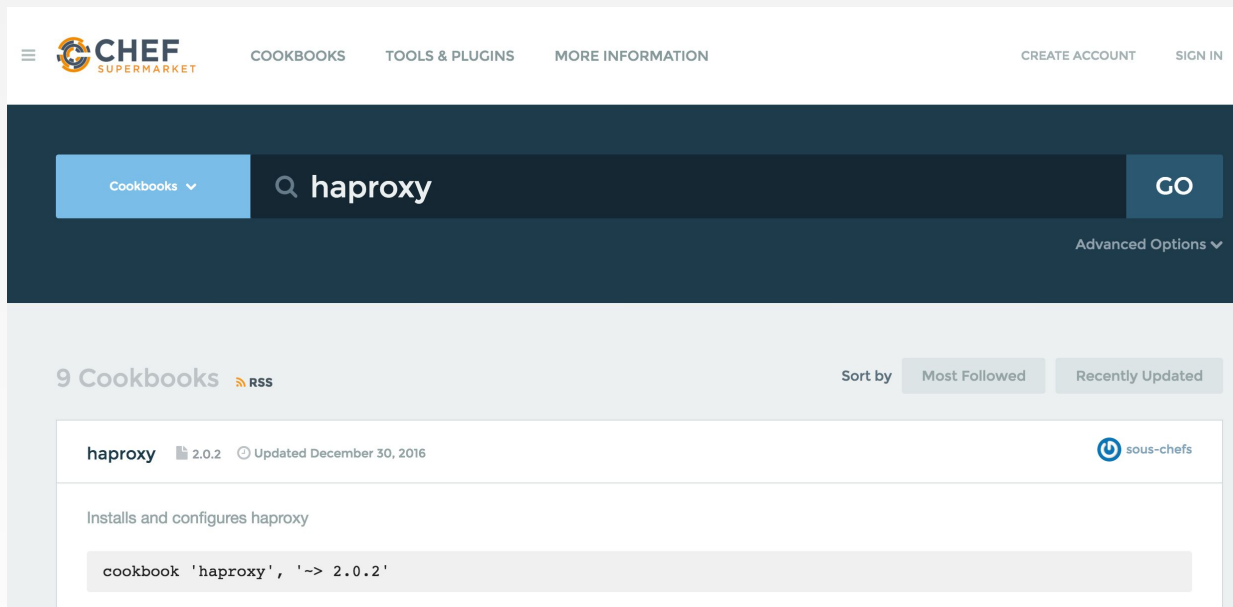
1. From the <https://supermarket.chef.io> page, type **haproxy** in the search field and then click the **GO** button.





# Searching in the Supermarket

2. Click the resulting **haproxy** link.



The screenshot shows the Chef Supermarket website interface. At the top, there is a navigation bar with the Chef Supermarket logo, links for COOKBOOKS, TOOLS & PLUGINS, and MORE INFORMATION, and buttons for CREATE ACCOUNT and SIGN IN. Below the navigation bar is a search bar with a dropdown menu set to 'Cookbooks'. The search term 'haproxy' is entered, and a 'GO' button is visible. To the right of the search bar is a link for 'Advanced Options'. Below the search bar, the results section shows '9 Cookbooks' with an RSS feed icon. There are two buttons for sorting: 'Most Followed' and 'Recently Updated'. The first result is for 'haproxy', version 2.0.2, updated on December 30, 2016, by 'sous-chefs'. The description of the cookbook is 'Installs and configures haproxy'. A code snippet is shown: `cookbook 'haproxy', '~> 2.0.2'`.

# Supermarket Cookbooks

On the right-hand side we can see the individuals that maintain the cookbook...

On the left, we are presented with the various ways we can install the cookbook...

The screenshot displays the 'haproxy' cookbook page on the Chef Supermarket. The page is divided into two main sections: a left sidebar for installation and a right sidebar for maintainers and details.

**Left Sidebar:**

- RSS** icon and **haproxy** title.
- (24) Versions** and **2.0.0** dropdown menu.
- Follow** button and **104** followers count.
- Installs and configures haproxy** description.
- Berkshelf/Librarian**, **Policyfile**, and **Knife** tabs.
- cookbook 'haproxy', '= 2.0.0'** code snippet.
- README**, **Dependencies**, **Changelog**, and **Quality** tabs.
- haproxy Cookbook** title.
- build** (unknown) and **cookbook** (v2.0.2) status bars.

**Right Sidebar:**

- sous-chefs** Sous Chefs header with a logo.
- A row of six circular profile pictures of the maintainers.
- DETAILS** section with **View Source** and **View Issues** buttons.
- UPDATED NOVEMBER 10, 2016** and **Created on October 25, 2009** dates.
- PLATFORMS** section with icons for various operating systems.

# Supermarket Cookbooks

The area to focus most of your attention from the beginning is the README.

Reading and understanding the README at a glance is difficult. It is a skill that comes with time.

[README](#) [Dependencies](#) [Changelog](#) [Foodcritic](#) ✖

## haproxy Cookbook

Installs haproxy and prepares the configuration location.

### Requirements

#### Platforms

- Ubuntu (10.04+ due to config option change)
- Redhat (6.0+)
- Debian (6.0+)

### Attributes

- `node['haproxy']['incoming_address']` - sets the address to bind the haproxy process on, 0.0.0.0 (all addresses) by default
- `node['haproxy']['incoming_port']` - sets the port on which haproxy listens
- `node['haproxy']['members']` - used by the default recipe to specify the member systems to add. Default

```
[{  
  "hostname" => "localhost",
```

# Supermarket Cookbooks

These node attributes are different than the automatic ones defined by Ohai.

Attributes defined in a cookbook are not considered automatic.

## Attributes

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```
[{
  "hostname" => "localhost",
  "ipaddress" => "127.0.0.1",
  "port" => 4000,
  "ssl_port" => 4000
}, {
  "hostname" => "localhost",
  "ipaddress" => "127.0.0.1",
  "port" => 4001,
  "ssl_port" => 4001
}]
```

- `node['haproxy']['member_port']` - the port that member systems will be listening on if not otherwise

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

# Supermarket Cookbooks

A wrapper cookbook is a new cookbook that encapsulates the functionality of the original cookbook.

It defines new default values for the recipes.



<https://docs.chef.io/supermarket.html#wrapper-cookbooks>

<https://www.chef.io/blog/2013/12/03/doing-wrapper-cookbooks-right/>