

Lab: Define a Load Balancer Role

- Create a role named 'load-balancer' that has the run list 'recipe[myhaproxy]'
- □ Upload the role with 'knife role from file'
- Set the load-balancer node's run list to be "role[load-balancer]"
- □ Converge your load balancer node



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Lab: Create the load-balaner.rb File

~/chef-repo/roles/load-balancer.rb

```
name 'load-balancer'
description 'Load Balancer Role'
run_list 'recipe[myhaproxy]'
```



Lab: Upload the web.rb File



\$ knife role from file roles/load-balancer.rb

```
Updated Role load-balancer!
```



Lab: Verify the Role on the Chef Server



\$ knife role list

```
load-balancer
web
```



Lab: Verify Specific Information About the Role



\$ knife role show load-balancer

```
chef type:
                   role
default attributes:
description:
             Load Balancer Role
env run lists:
json class:
                   Chef::Role
                   load-balancer
name:
override attributes:
run list:
           recipe[myhaproxy]
```



Lab: Set node1's Run List



\$ knife node run_list set load-balancer "role[load-balancer]"

```
load-balancer:
   run_list: role[load-balancer]
```



Verify the Run List



\$ knife node show load-balancer

Node Name: load-balancer

Environment: default

FQDN: load-balancer

IP: 10.0.2.15

Run List: role[load balancer]

Roles:

Recipes: myhaproxy, myhaproxy::default, haproxy::default, haproxy::install_package

Platform: centos 7.2

Tags:



Login to Load Balancer



\$ vagrant ssh load-balancer

```
Last login: Sat Dec 31 02:59:27 2016 from 10.0.2.2
[vagrant@load-balancer ~]$
```



Converge the Load Balancer



[vagrant@load-balancer ~]\$ sudo chef-client

```
Starting Chef Client, version 12.17.44

resolving cookbooks for run list: ["myhaproxy"]

Synchronizing Cookbooks:

- myhaproxy (0.1.0)

- haproxy (2.0.0)

- build-essential (7.0.3)

- seven_zip (2.0.2)

- windows (2.1.1)

- ohai (4.2.3)
```



Return to your Workstation



[vagrant@load-balancer ~]\$ exit

logout Connection to 127.0.0.1 closed.



Verify the Run List



\$ knife node show load-balancer

Node Name: load-balancer

Environment: default

FQDN: load-balancer

IP: 10.0.2.15

Run List: role[load-balancer]

Roles: load-balancer

Recipes: myhaproxy, myhaproxy::default, haproxy::default, haproxy::install_package

Platform: centos 7.2

Tags:





Roles for Everyone

We will give our nodes a role to better describe them and so we can configure them in a similar manner.

Objective:

- ✓ Give our load balancer node a "load_balancer" Role
- ✓ Give our web nodes a "web" Role



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DISCUSSION



Discussion

What are the benefits of using roles? What are the drawbacks?

Roles can contain roles. How many of these nested roles would make sense?



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