

### Lab: Bootstrap a Load Balancer

- Bootstrap a new node
- Update the run list of the new node to include the wrapper proxy server cookbook
- □ SSH to that system and run chef-client
- □ Verify that traffic to the load balancer is relayed to the web server.



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### Lab: Bootstrap a New Node



\$ knife bootstrap FQDN -x USER -P PWD --sudo -N NAME --bootstrap-version=12

```
Creating new client for node2
Creating new node for node2
Connecting to ec2-54-210-192-12.compute-1.amazonaws.com
ec2-54-210-192-12.compute-1.amazonaws.com Starting first Chef Client run...
ec2-54-210-192-12.compute-1.amazonaws.com Starting Chef Client, version
12.3.0
ec2-54-210-192-12.compute-1.amazonaws.com resolving cookbooks for run list:
ec2-54-210-192-12.compute-1.amazonaws.com Synchronizing Cookbooks:
ec2-54-210-192-12.compute-1.amazonaws.com Compiling Cookbooks...
ec2-54-210-192-12.compute-1.amazonaws.com [2016-09-16T17:13:10+00:00] WARN:
Node node2 has an empty run list.
ec2-54-210-192-12 compute-1 amazonaws com Converging 0 resources
```



# Verify the port and identity file



\$ vagrant ssh-config load-balancer

HostName 127.0.0.1
User vagrant
Port 2202
UserKnownHostsFile /dev/null
StrictHostKeyChecking no
PasswordAuthentication no
IdentityFile /Users/USER/chef-repo/.vagrant/machines/load-balancer/virtualbox/private\_key
IdentitiesOnly yes
LogLevel FATAL



### **Bootstrap Your Node**



\$ knife bootstrap localhost -p LB\_PORT -x vagrant --sudo -i PATH\_TO\_KEY -N
load-balancer -r "recipe[myhaproxy]" --bootstrap-version=12

```
Creating new client for load-balancer
Creating new node for load-balancer
Connecting to localhost
localhost ----> Installing Chef Omnibus (-v 12)
localhost downloading https://omnitruck-direct.chef.io/chef/install.sh
           to file /tmp/install.sh.12058/install.sh
localhost
localhost trying wget...
localhost el 7 x86 64
localhost Getting information for chef stable 12 for el...
localhost downloading https://omnitruck-
direct.chef.io/stable/chef/metadata?v=12&p=e1&pv=7&m=x86 64
localhost
           to file /tmp/install.sh.12063/metadata.txt
localhost trying wget...
```



# Run 'knife node list' Again



\$ knife node list

web1 load-balancer



### **View More Information About Your Node**



#### \$ knife node show load-balancer

Node Name: load-balancer Environment: default FODN: load-balancer IP: 10.0.2.16 Run List: recipe[myhaproxy] Roles: Recipes: myhaproxy, myhaproxy::default, haproxy::manual, haproxy::install package Platform: centos 7.2.1511 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 ~]$
```



### **Verify the Load Balancer**



[vagrant@load-balancer ~]\$ curl localhost



### Return to your Workstation

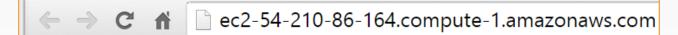


[vagrant@load-balancer ~]\$ exit

logout
Connection to 127.0.0.1 closed.



### **Verify the Load Balancer**



### Hello, world!

ipaddress: 172.31.0.127

hostname: ip-172-31-0-127

