
layout: post

title: "[Rails☐☐☐☐☐]☐☐Chef-Solo☐☐☐☐☐"

date: 2013-06-01 03:53

comments: true

categories: chef-solo vagrant deploy

[Rails] Chef-Solo

800server5000server
cap deploy cap
deployRollbackDeploy

Chef

ChefChefChef-SoloChef-ServerChef-Solo
ServerChef-Solo
SoloChef-SoloChef-
Server

Capistrano

CapistranosshsshCapistrano
Solo`capistrano-recipes`gem

1. CapistranoChef-Solo
- 2.
3. CapistranoChef-Solo

cookbookscapistrano

Chef-Solo

VagrantVagrantVagrantvagrant up
SoloChef-SoloRubygistVMroot

```
$ vagrant up
$ vagrant ssh
$ sudo su
$ curl -L https://gist.github.com/gogojimmy/5523985/raw/b9d777bc380ee791c2f4534e9261b4b99289ed9f/
bootstrap-chef-solo.sh | sh
```

chef-solo -vchef-solo

Cookbook

CookbookNginxchef

```
mkdir -p /etc/chef/coobooks/nginx/recipes
```

```

cookbooks/{recipe}/{recipes}recipesdefault.recipe
nginx

```

```
package 'nginx'
```

```
package []Chef-Solo[]Ubuntu[]apt[]Fedora[]yum[]packa
'nginx'[]chef[]nginx[]chef[]
[]node.json[]Chef[]
```

```
{ "run_list": ["recipe[nginx]"] }
```

```
run_list[]=key[]=array[]=Chef[]=recipe[]=Nginx[]=recipe[]=
.rb[]=Chef[]=node.json[]=cookbooks[]=chef[]=
```

```
cookbook_path File.expand_path("../cookbooks", __FILE__)
json_attribs File.expand_path("../node.json", __FILE__)
```

```
$ chef-solo solo.rb
Starting Chef Client, version 11.4.0
Compiling Cookbooks...
Converging 1 resources
Recipe: nginx::default
  * package[nginx] action install
    - install version 1.1.19-1ubuntu0.2 of package nginx

Chef Client finished, 1 resources updated
root@vagrant-ubuntu-precise-64:/etc/chef# which nginx
/usr/sbin/nginx
```

```

#####nginx#####chef#####Chef#####
#####package#####package#####v
#####options#####--with-http_ssl_module#####actionaction#####install#####upgr
remove#####Opscode#####

```

☐ ☐ **Chef** ☐ ☐ ☐ ☐

[illegible]

```

package 'nginx'

service 'nginx' do
  supports [:status, :restart, :reload]

  action :start
end

```

```

package resource nginx script /etc/init.d/ script
resource nginx service Chef service name process
Chef status restart reload action start
.rb

```

```

$ chef-solo solo.rb
Starting Chef Client, version 11.4.0
Compiling Cookbooks...
Converging 2 resources
Recipe: nginx::default
  * package[nginx] action install (up to date)
  * service[nginx] action start
    - start service service[nginx]

Chef Client finished, 1 resources updated

```

```

Nginx Nginx VM Nginx

```

Chef deploy

```

Chef user resource cookbook cookbooks user cookbook
.rb user

```

```

user 'gogojimmy' do
  password "$1$0xPMgmAb$bLlr2pIPTetowdIP0uCw20"
  gid "admin"
  home "/home/gogojimmy"
  supports manage_home: true
end

```

```

user resource gogojimmy user admin group password
hash Opscode

```

```

openssl -l 'password'

```

```

recipe node.json run_list

```

```
{
  "run_list": ["recipe[nginx]", "recipe[user]"]
}
```

```

chef-solo chef user

```

```
$ chef-solo solo.rb
Starting Chef Client, version 11.4.0
Compiling Cookbooks...
Converging 3 resources
Recipe: nginx::default
  * package[nginx] action install (up to date)
  * service[nginx] action start (up to date)
Recipe: user::default
  * user[gogojimmy] action create
    - create user user[gogojimmy]
```

```

{"user":{"recipe":{"resource":{".json":{"recipe":{"Rails/i18n":{"user":{"node.json":

```

```
{
  "run_list": ["recipe[user]", "recipe[nginx]"],
  "user": {
    "name": "gogojimmy",
    "password": "$1$0xPMgmAb$bLlr2pIPTetowdIP0uCw20"
  }
}
```

□□□recipe□□□□□□□□□□

```
user node[:user][:name] do
  password node[:user][:password]
  gid "admin"
  home "/home/#{node[:user][:name]}"
  supports manage_home: true
end
```

```

❏❏❏❏chef-solo❏

```

```
$ chef-solo solo.rb
Starting Chef Client, version 11.4.0
Compiling Cookbooks...
Converging 3 resources
Recipe: nginx::default
  * package[nginx] action install (up to date)
  * service[nginx] action start (up to date)
```

```
Recipe: user::default
  * user[gogojimmy] action create (up to date)
Chef Client finished, 0 resources updated
```

ok

template

MySQL my.cnf Nginx *.conf Chef template
template Nginx nginx templates
.conf.erb

```
server {
  server_name 33.33.33.10;
  root /home/<%= node[:user][:name] %>/demo;
}
```

nginx host user demo Nginx recipe Chef template

```
template "/etc/nginx/sites-enabled/nginx.conf" do
  source 'nginx.conf.erb'
  notifies :restart, 'service[nginx]', :immediately
end
```

template resource Chef /etc/nginx/sites-available/nginx
.conf source Chef template notifies callback Chef
delayed Chef user demo 'in

```
package 'nginx'

service 'nginx' do
  supports [:status, :restart, :reload]
  action :start
end

directory "/home/#{node[:user][:name]}/demo" do
  owner node[:user][:name]
end

file "/home/#{node[:user][:name]}/demo/index.html" do
  owner node[:user][:name]
  content "<h1>Hello gogojimmy!</h1>"
end

template "/etc/nginx/sites-enabled/nginx.conf" do
```

[illegible]

Solo `host` `cookbooks` `Chef-Solo`

[illegible]

```

000knife-solo00000000knife solo init 000000000

```

6

```
$ cd knife-solo-demo
$ tree
.├──
  cookbooks├──
  data_bags├──
  nodes├──
  roles├──
  site-cookbooks├──
  solo.rb
```

```

Chef
chef

```

```
$ knife configure -r . --defaults
```

```

VM
IP
VM
Vagrant

```

```
$ knife solo bootstrap vagrant@33.33.33.10
Bootstrapping Chef...
```

% Total	% Received	% Xferd	Average Speed		Time	Time	Time	Current
			Dload	Upload	Total	Spent	Left	Speed
100	6510	100	6510	0	0	2649	0	0:00:02 0:00:02 --:--:-- 4389

```
Downloading Chef for ubuntu...
```

```
Installing Chef
```

```
Selecting previously unselected package chef.
```

```
(Reading database ... 62744 files and directories currently installed.)
```

```
Unpacking chef (from ../tmp.sCDzMEID/chef__amd64.deb) ...
```

```
Setting up chef (11.4.4-2.ubuntu.11.04) ...
```

```
Thank you for installing Chef!
```

```
Generating node config 'nodes/33.33.33.10.json'...
```

```
vagrant@33.33.33.10's password:
```

```
Starting Chef Client, version 11.4.0
```

```
Compiling Cookbooks...
```

```
Converging 0 resources
```

```
Chef Client finished, 0 resources updated
```

```
knife solo bootstrap VM Chef VM knife solo bootstrap
```

```
knife solo prepare knife solo cook Chef cook
```

```
-solo cook cook cook
```

```
Nginx knife
```

```
$ knife cookbook create nginx
```

```
** Creating cookbook nginx
```

```
** Creating README for cookbook: nginx
```

```
** Creating CHANGELOG for cookbook: nginx
```



```
** Creating metadata for cookbook: nginx
```

```

knife cookbook::nginx::cookbook::default.rb
.json
nodes
VM ip
json
run_list
cook
```

```
$ knife solo cook vagrant@33.33.33.10
Checking Chef version...
[2013-05-31T19:03:31+00:00] INFO: *** Chef 10.12.0 ***
[2013-05-31T19:03:32+00:00] INFO: Setting the run_list to ["recipe[user]", "recipe[nginx]"] from
JSON
[2013-05-31T19:03:32+00:00] INFO: Run List is [recipe[user], recipe[nginx]]
[2013-05-31T19:03:32+00:00] INFO: Run List expands to [user, nginx]
[2013-05-31T19:03:32+00:00] INFO: Starting Chef Run for vagrant-ubuntu-quantal-64
[2013-05-31T19:03:32+00:00] INFO: Running start handlers
[2013-05-31T19:03:32+00:00] INFO: Start handlers complete.
[2013-05-31T19:03:32+00:00] INFO: Processing user[gogojimmy] action create (user::default line
10)
[2013-05-31T19:03:32+00:00] INFO: Processing package[nginx] action install (nginx::default line
10)
[2013-05-31T19:03:32+00:00] INFO: Processing service[nginx] action start (nginx::default line 12)
[2013-05-31T19:03:32+00:00] INFO: service[nginx] started
[2013-05-31T19:03:32+00:00] INFO: Processing directory[/home/gogojimmy/demo] action create (nginx
::default line 17)
[2013-05-31T19:03:32+00:00] INFO: Processing file[/home/gogojimmy/demo/index.html] action create
(nginx::default line 21)
[2013-05-31T19:03:32+00:00] INFO: Processing template[/etc/nginx/sites-enabled/nginx.conf] action
create (nginx::default line 26)
[2013-05-31T19:03:32+00:00] INFO: Chef Run complete in 0.425268589 seconds
[2013-05-31T19:03:32+00:00] INFO: Running report handlers
[2013-05-31T19:03:32+00:00] INFO: Report handlers complete
```

```

knife
solo bootstrap
```

```
$ knife solo bootstrap vagrant@33.33.33.10
Bootstrapping Chef...
Enter the password for vagrant@33.33.33.10:
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload  Total  Spent    Left  Speed
100 6510  100 6510    0     0  6755      0 --:--:-- --:--:-- --:--:-- 10742
Downloading Chef for ubuntu...
Installing Chef
(Reading database ... 63748 files and directories currently installed.)
Preparing to replace chef 10.12.0-2 (using .../tmp.EMBKgQMR/chef__amd64.deb) ...
```

```

* Stopping chef-client chef-client [ OK ]
Unpacking replacement chef ...
dpkg: warning: unable to delete old directory '/var/log/chef': Directory not empty
dpkg: warning: unable to delete old directory '/etc/chef': Directory not empty
Setting up chef (11.4.4-2.ubuntu.11.04) ...
Thank you for installing Chef!
Processing triggers for man-db ...
Processing triggers for ureadahead ...
Starting Chef Client, version 11.4.4
Compiling Cookbooks...
Converging 6 resources
Recipe: user::default
  * user[gogojimmy] action create
    - create user user[gogojimmy]

Recipe: nginx::default
  * package[nginx] action install
    - install version 1.2.1-2.2ubuntu0.1 of package nginx

  * service[nginx] action start
    - start service service[nginx]

  * directory[/home/gogojimmy/demo] action create
    - create new directory /home/gogojimmy/demo
    - change owner from '' to 'gogojimmy'

  * file[/home/gogojimmy/demo/index.html] action create
    - create new file /home/gogojimmy/demo/index.html with content checksum 60ce4d
      --- /tmp/chef-tempfile20130531-3432-c8tneh      2013-05-31 19:14:01.334694350 +0000
      +++ /tmp/chef-diff20130531-3432-1q1fx4z      2013-05-31 19:14:01.334694350 +0000
      @@ -0,0 +1 @@
      +<h1>Hello gogojimmy!</h1>

  * template[/etc/nginx/sites-enabled/nginx.conf] action create
    - create template[/etc/nginx/sites-enabled/nginx.conf]
      --- /tmp/chef-tempfile20130531-3432-18v20jr      2013-05-31 19:14:01.418694347 +0000
      +++ /tmp/chef-rendered-template20130531-3432-w0bdgr      2013-05-31 19:14:01.414694348
      +0000
      @@ -0,0 +1,4 @@
      +server {
      +  server_name 33.33.33.10;
      +  root /home/gogojimmy/demo;
      +}

```

```
* service[nginx] action restart
  - restart service service[nginx]
```

Chef Client finished, 7 resources updated

```
* service[nginx] action restart
  - restart service service[nginx]
```

Chef Client finished, 7 resources updated

[illegible]

[Opscode](#)
[cookbook](#)
[toolbox](#)
[Chef](#)
[Capistrano](#)

Q&A

Q□Chef□□□Cookbooks□..Recipe□...□□□□□□□□□□□□□□□□

[illegible]

- node
- workstation PTT Facebook
- kitchen chef solo.rb
- recipe Ruby DSL node
- cookbook recipe template attributes resource
- resource " " " " "
- data bag node JSON

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A Chef

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- knife-solo
- chef-solo-basic