

---

# **ChefTutorial Documentation**

***Release 1.0***

**Toru Uetani**

January 04, 2017



<b>1</b>		<b>3</b>
1.1	.....	3
1.2	Chef-solo .....	9
1.3	Github for Windows .....	17
1.4	Chef-solo .....	22
<b>2</b>		<b>31</b>



Chef-solo Windows

**Warning:** Chef Twitter (id:toruuetani)

Sphinx Mercurial / TortoiseHg BitBucket

- <https://bitbucket.org/toruuetani/chef-solo-tutorial>

Read the Docs

- <https://readthedocs.org/projects/chefsoloonwindowstutorial/>
- <https://chefsoloonwindowstutorial.readthedocs.org/en/latest/>

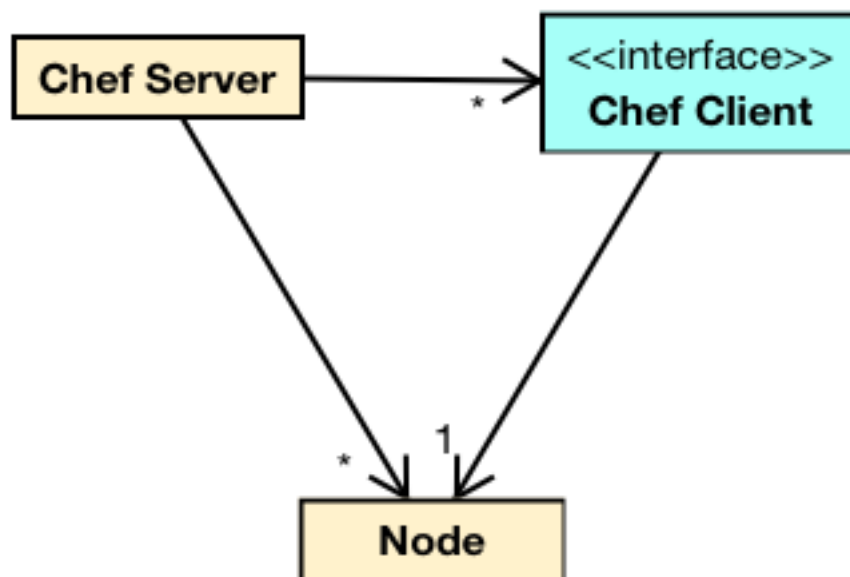


## 1.1

Chef / Chef

### 1.1.1 Server, Client, Node

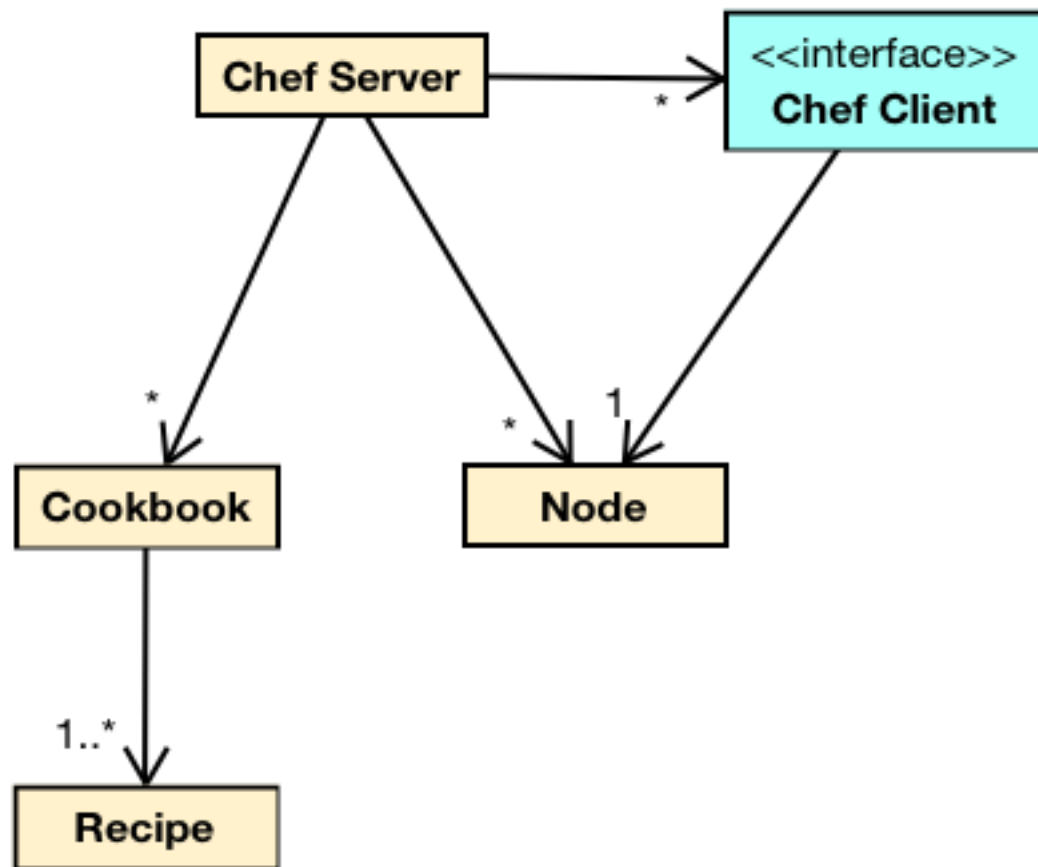
Chef Server Chef Client Node



**Hint:** Node Node Client

### 1.1.2 Cookbook, Recipe

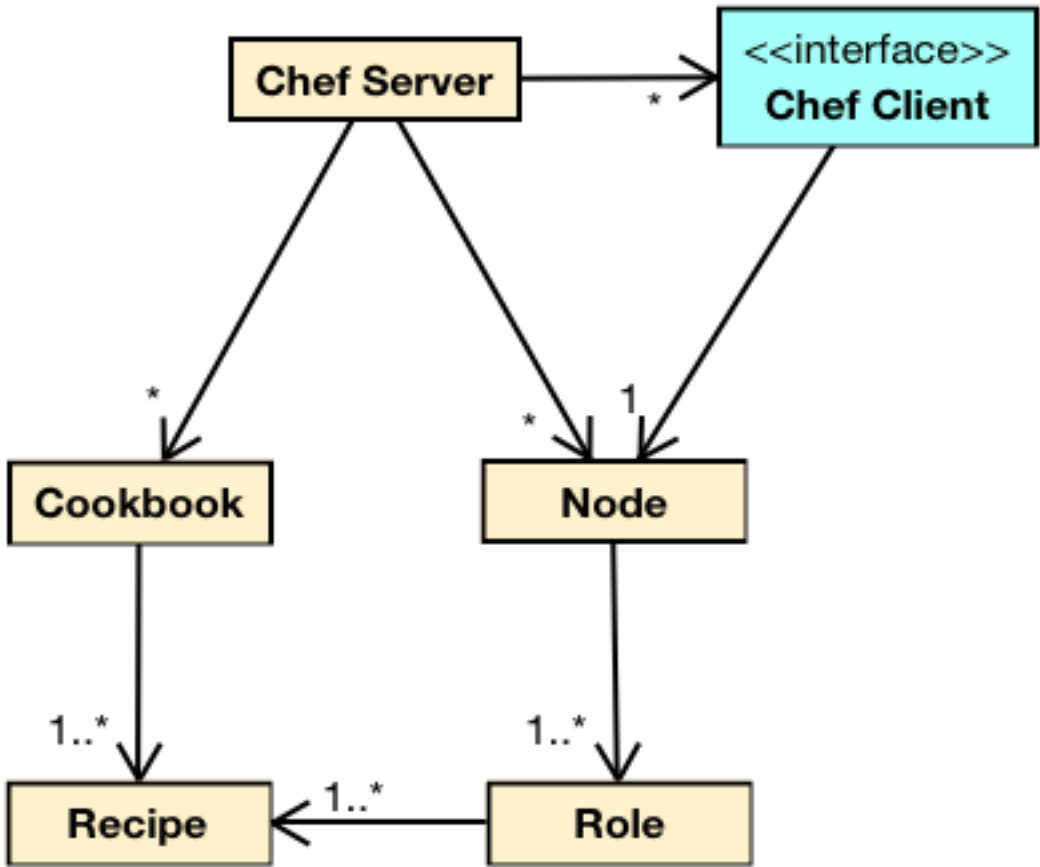
Recipe Node Ruby Recipe Cookbook



### 1.1.3 Role

Node [Role](#) Node Role Role Recipe Role Recipe



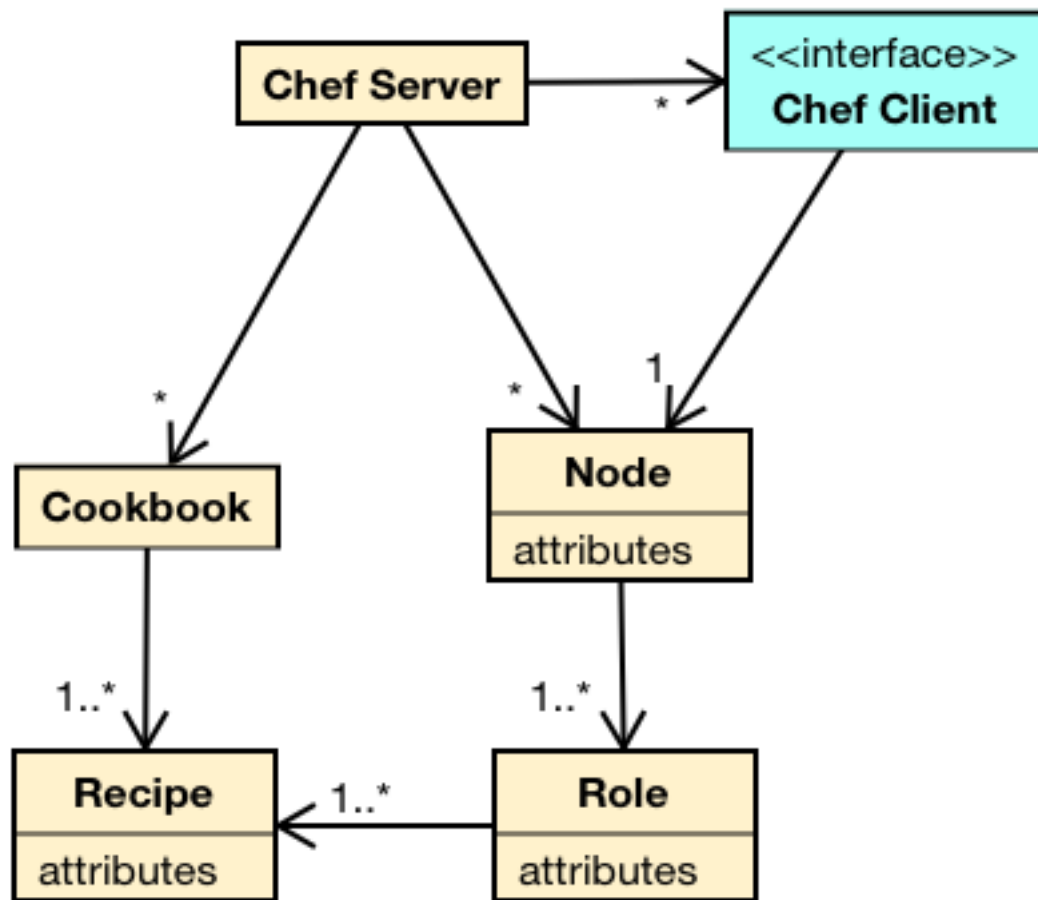


Role Ruby JSON Ruby ([Role Data Formats — Chef Docs](#))

```
1 name "webserver"
2 description "The base role for systems that serve HTTP traffic"
3 run_list "recipe[apache2]", "recipe[apache2::mod_ssl]", "role[monitor]"
4 env_run_lists "prod" => ["recipe[apache2]"], "staging" => ["recipe[apache2::staging]"], "_default" =>
5 default_attributes "apache2" => { "listen_ports" => [ "80", "443" ] }
6 override_attributes "apache2" => { "max_children" => "50" }
```

1.1.4 Attribute

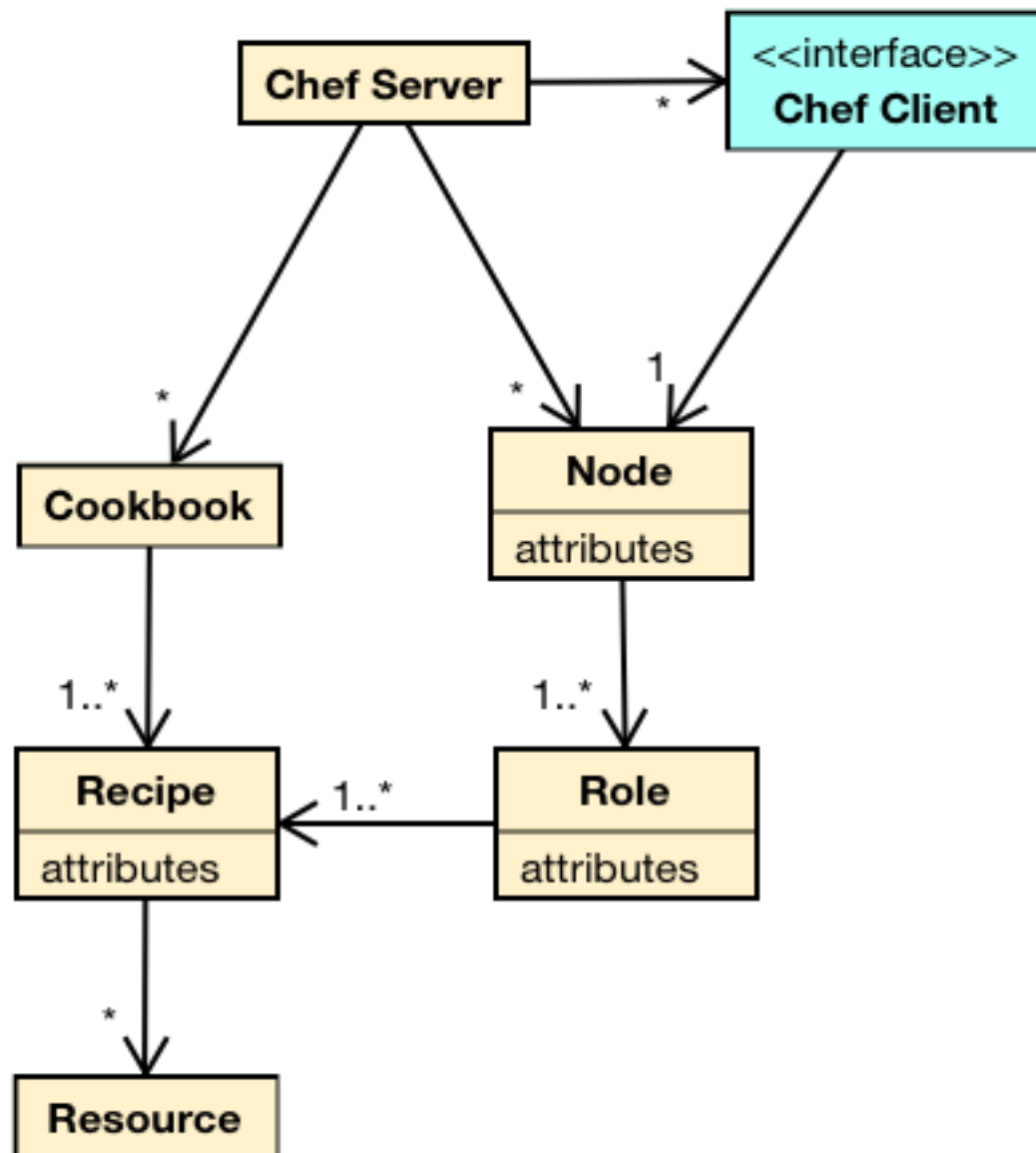
Attribute Cookbook / Recipe Node Attribute Recipe Attribute Recipe Role Node Attribute



### 1.1.5 Resource

Resource Recipe Resource directory

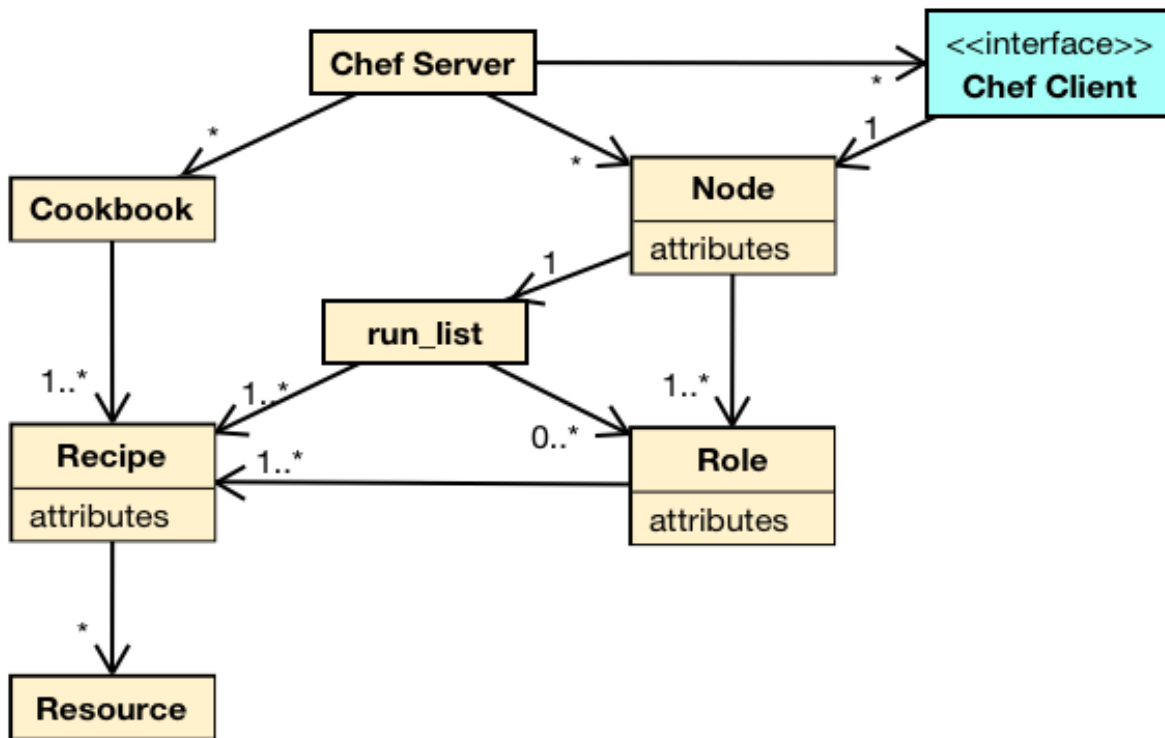
```
1 node['apache']['dir'] = '/etc/apache2'
2
3 directory node['apache']['dir'] do
4   owner 'apache'
5   group 'apache'
6   action :create
7 end
```



**Hint:** Recipe Resource

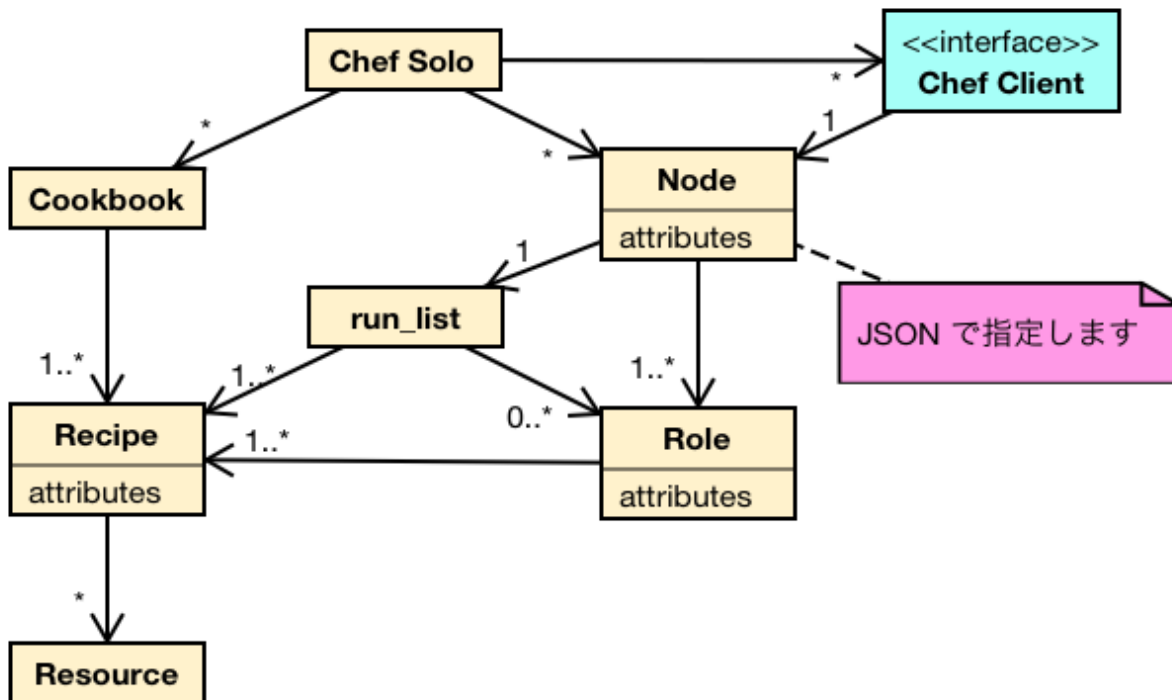
### 1.1.6 run\_list

`run_list` Node Role Recipe



### 1.1.7 Chef Solo

[Chef Solo](#) [Chef Server](#) [Chef](#)



Cookbook Node Cookbook Node JSON

```

1 {
2   "resolver": {
3     "nameservers": [ "10.0.0.1" ],
4     "search": "int.example.com"
5   },
6   "run_list": [ "recipe[resolver]" ]
7 }

```

Chef Solo

## 1.2 Chef-solo

**Hint:** 2013/03/06 Ver.11.4.0

Step2

Dashboard
>
Chef
>
...
>
Fast Start Guide for Windows

Browse
Log In
Sign Up
Search this space

OPSCODE

- About Opscode Chef
- Chef Basics
- Architecture
- Chef Essentials
- Installation
  - Fast Start Guide
    - Setup Opscode User and Organization
    - Client Bootstrap Fast Start Guide
    - Fast Start Guide for Windows**
    - Fast Start Guide for CentOS
    - EC2 Bootstrap Fast Start Guide
    - OpenStack Bootstrap Fast Start Guide
    - Cookbook Fast Start Guide
  - Getting Started with Chef
  - Workstation Setup
  - Installing Chef Server
  - Installing Chef Client and Chef Solo
  - Upgrade Instructions
  - Vagrant
  - Installing Chef from HEAD
  - Configure Management Workstation As A Chef-Client
  - Quick Start

## Fast Start Guide for Windows

8 Added by [Jessica Bourne](#), last edited by [Jeff Blaine](#) on Sep 18, 2012 ([view change](#)) [show comment](#)

**This page is an install guide that describes how to get up and running with Hosted Chef as quickly as possible and ends with a fast demonstration on how to work with cookbooks.**

**This Installation Guide uses the new Windows Full Installer.**

Hosted and Private Chef customers should contact [support@opscode.com](mailto:support@opscode.com) with any issues. Open Source users may interact in [open source support channels](#), open a [Bug Report](#) with project "CHEF", component "Packages", label "omnibus", if necessary.

If you want to install Chef manually instead, see the [installation](#) page.

### Assumptions

In order to make this as quick as possible, we make a few assumptions. If your system does not meet these assumptions, you will need to use the [installation](#) instructions that apply for the "flavor" of Chef you are installing.

### Hosted Chef

- Assumptions**
  - [Hosted Chef](#)
  - [Operating System](#)
  - [Management Workstation as a Client](#)
- Steps**
  - [Step 1: Create a Hosted Chef account](#)
  - [Step 2: Install Chef and Dependencies](#)**
  - [Step 3: Configure Chef and create the needed directories](#)
  - [Step 4: Connect to Hosted Chef](#)
  - [Step 5: Configure the workstation as a client](#)
  - [Step 6: Download a Cookbook from the Community Site](#)
  - [Step 7: Upload a Cookbook to Hosted Chef](#)
  - [Step 8: Add a Cookbook to the run list](#)
  - [Step 9: Run chef-client](#)
- If something goes wrong**
  - [Some Resources/Providers Are Known To Not Work](#)
  - [What should I look at next?](#)

Powered by a free [Atlassian Confluence Open Source Project License](#) granted to Chef and Ohai. Evaluate Confluence today.

Powered by Atlassian Confluence 4.3.1, the Enterprise Wiki - [Report a bug](#) - [Atlassian News](#)

Portions Copyright © 2009-2012 Opscode, Inc. All Rights Reserved. Other content licensed under a [Creative Commons Attribution-ShareAlike 3.0 Unported License](#).

## Step 2

### Step 2: Install Chef and Dependencies

This Installation Guide uses the new Windows Full Installer.

It has been tested, but as it is newly released, Hosted and Private Chef customers should contact [support@opscode.com](mailto:support@opscode.com) with any issues. Open Source users may interact in [open source support channels](#), opening a [Bug Report](#) with project "CHEF", component "Packages", label "omnibus", if necessary.

#### Install Chef

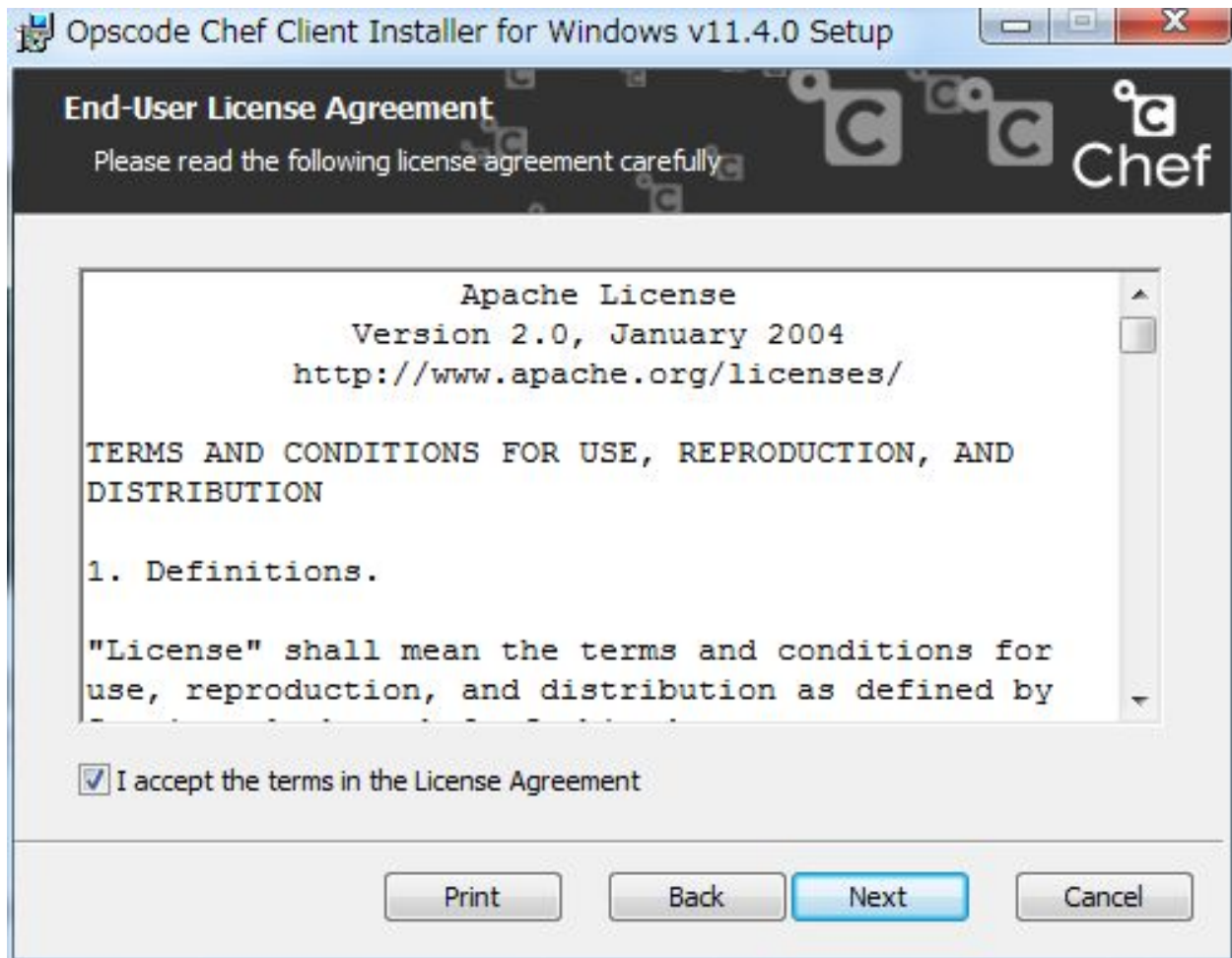
[Download the Chef Full Installer](#) for Windows and open it. Choose defaults for any options.

Once it is installed there will be no icon for it. If needed, you can confirm it was installed correctly with this command in a new command prompt window:

```
C:\> C:\opscode\chef\bin\chef-client --version
```

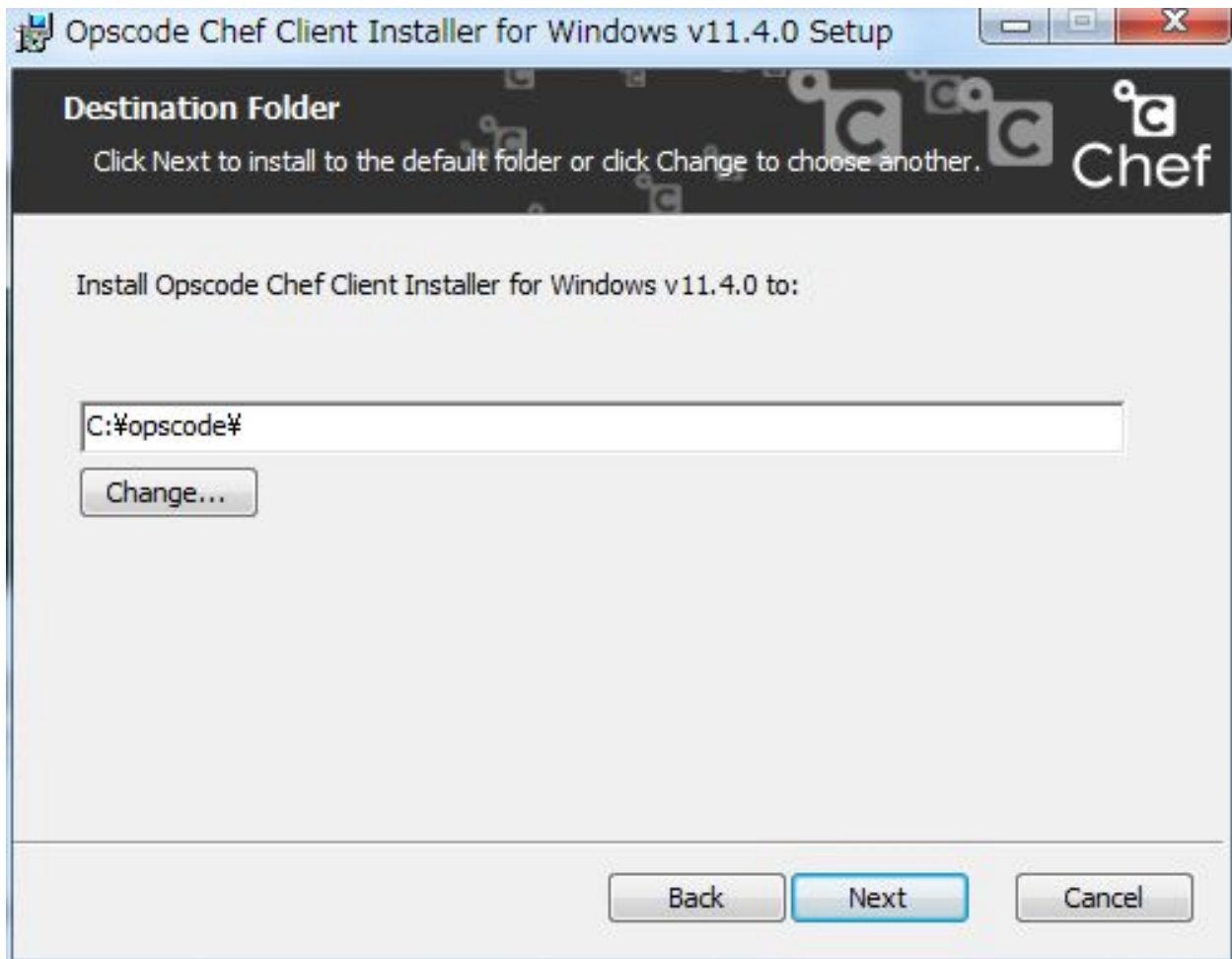
You should see "Chef: 10.18.0" returned as the version number.

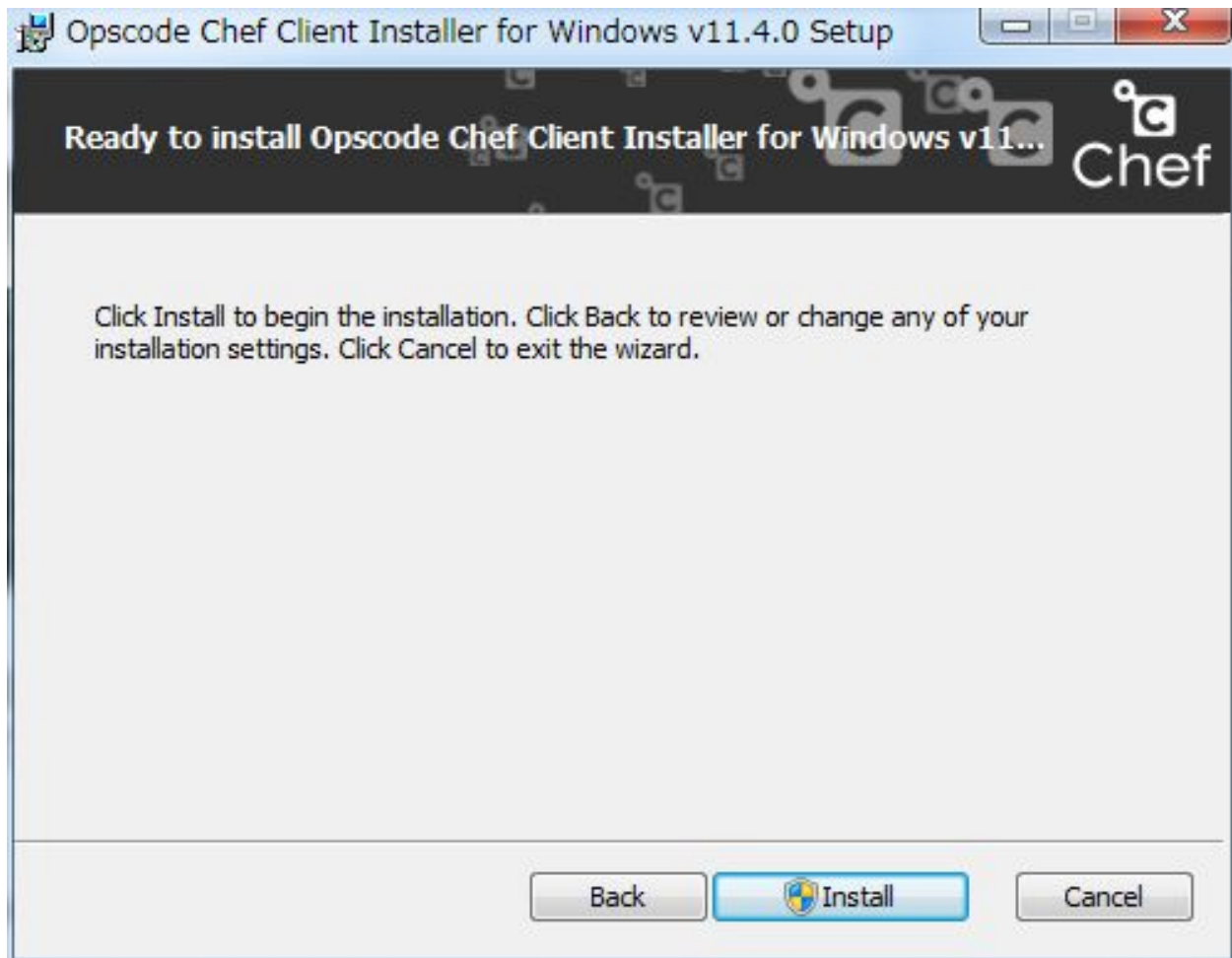
chef-client-11.4.0-1.windows.msi

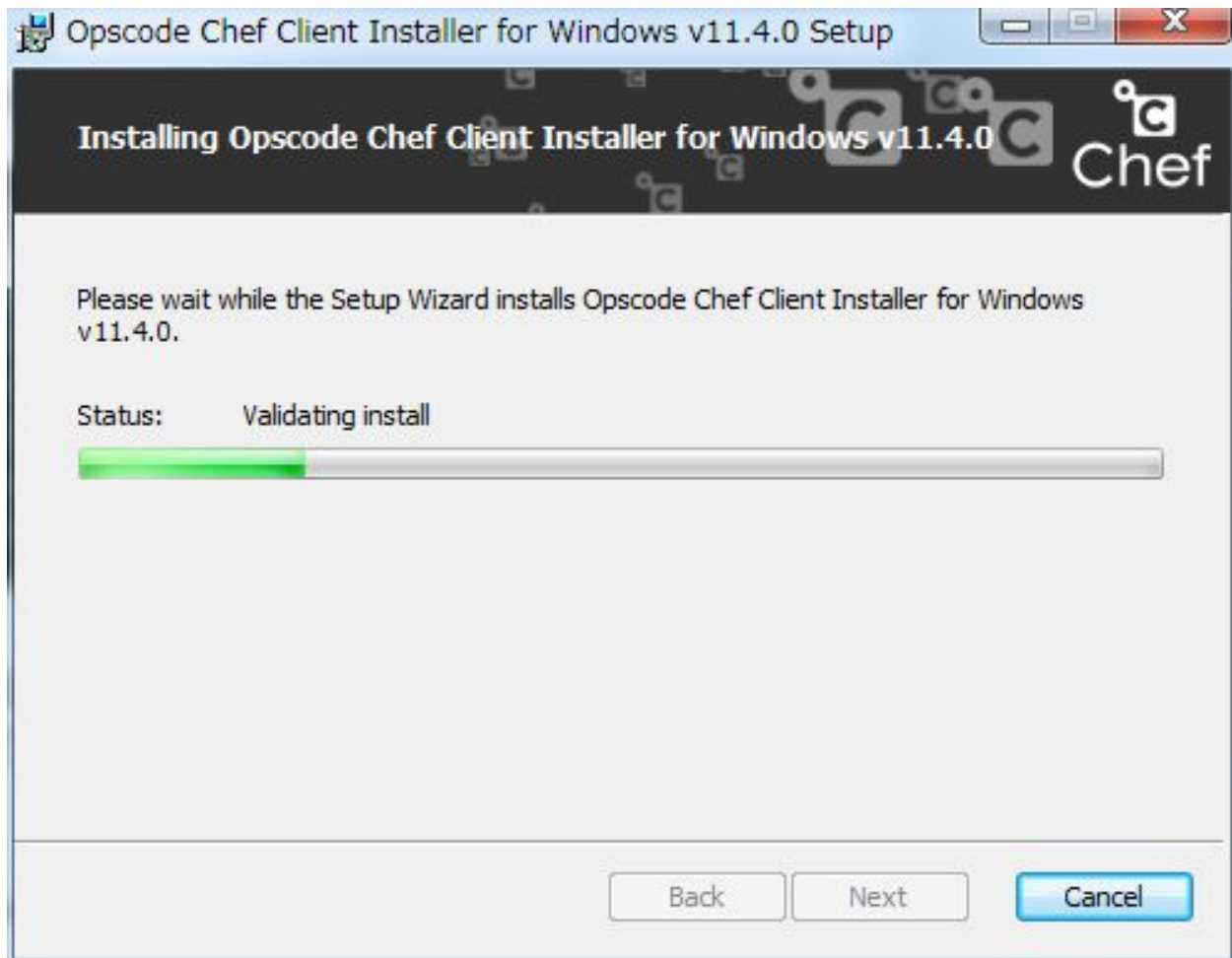


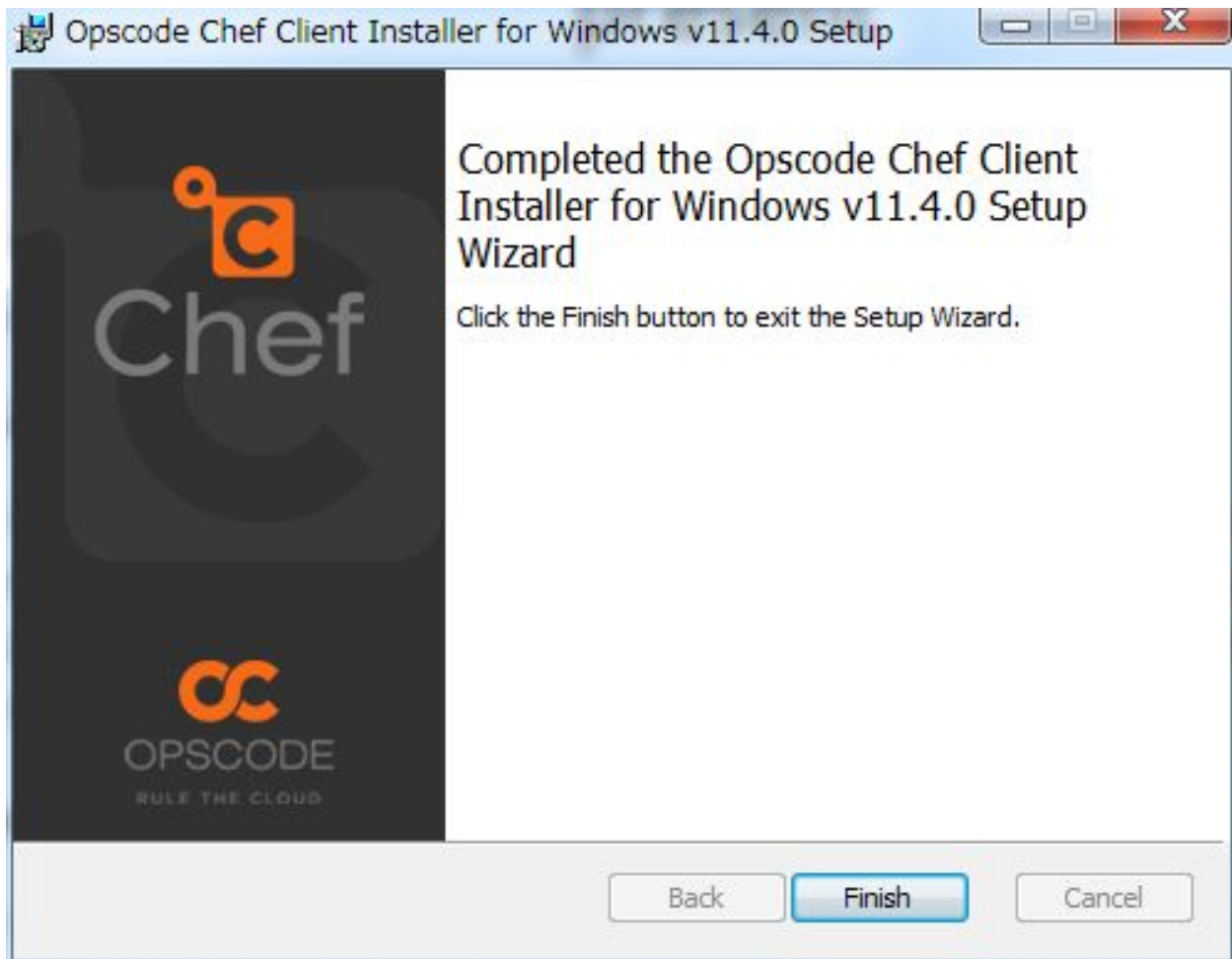












```
chef-solo --version
```

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

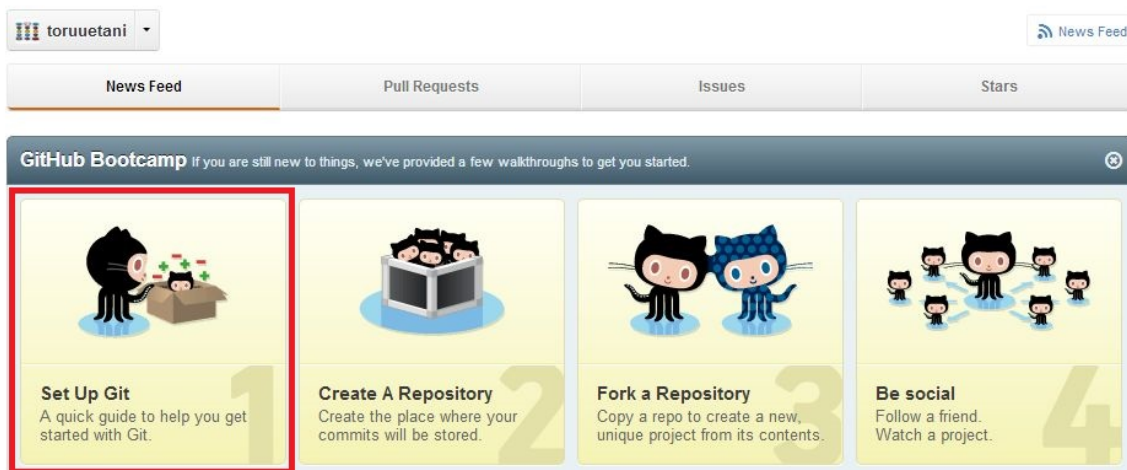
C:\Users\toru>chef-client --version
Chef: 11.4.0

C:\Users\toru>
```

## 1.3 Github for Windows

**Hint:** 2013/03/06 Ver.1.0.38.1

1.



## 2. Set Up Git



[Contact Support](#) [Back to GitHub](#)

[Bootcamp](#) / [Set Up Git](#)

How can we help?



# Set Up Git

[MAC](#) | [WINDOWS](#) | [LINUX](#) | [ALL](#)



Skip the guide. Download our native app instead.

Download GitHub for Windows

If you've found yourself on this page, we're assuming you're brand new to Git and GitHub. This guide will walk you through the basics and explain a little bit about how everything works along the way.

## Download and Install Git

At the heart of GitHub is an open source version control system (VCS) called Git\*. Created by the same team that created Linux, Git is responsible for everything GitHub related that happens locally on your computer.

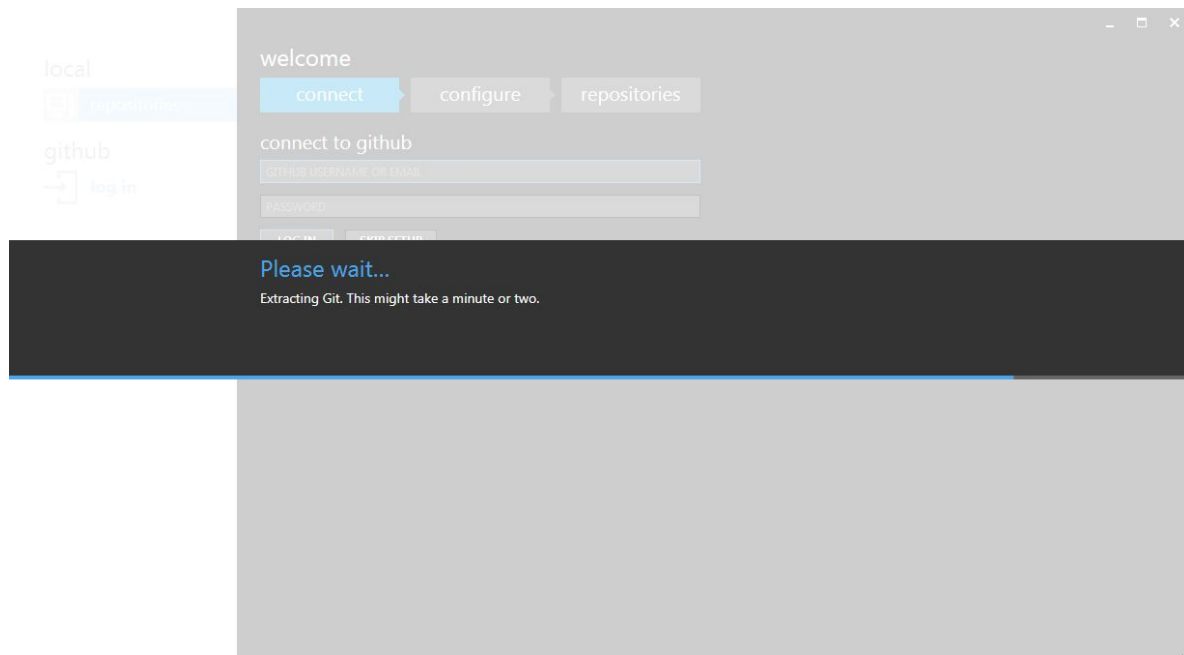
*\*If you don't already know what Git is, [take a crash course](#).*

**Download and install [the latest version of Git](#).**

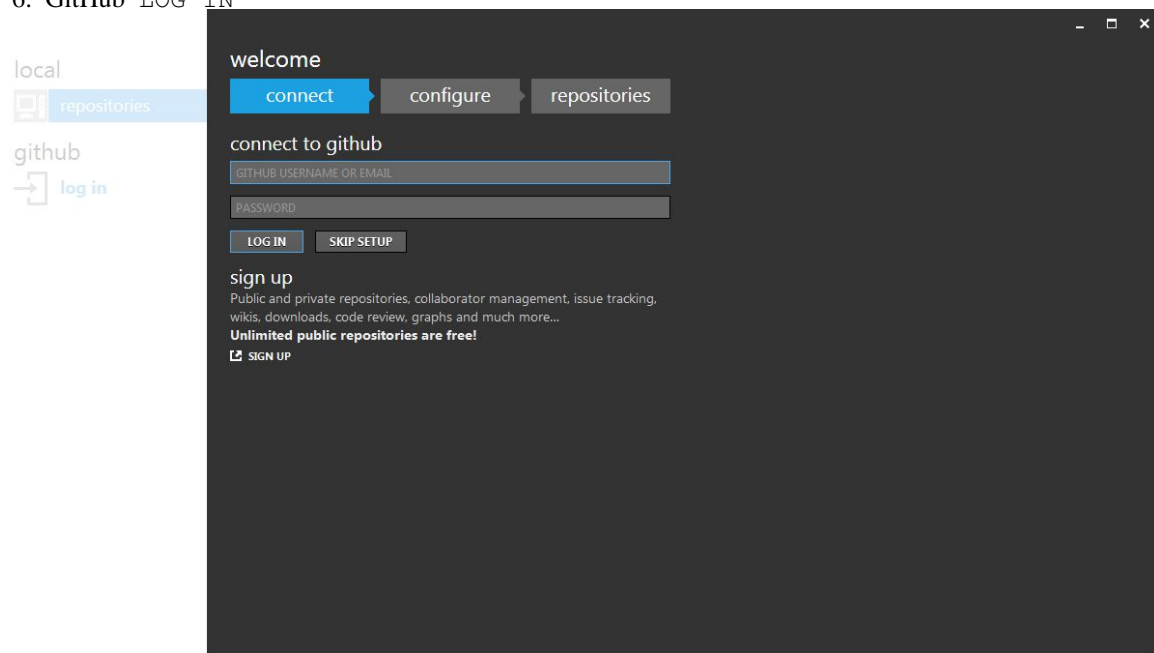
### 3. Download `GitHubSetup.exe`



- 4.
5. Github

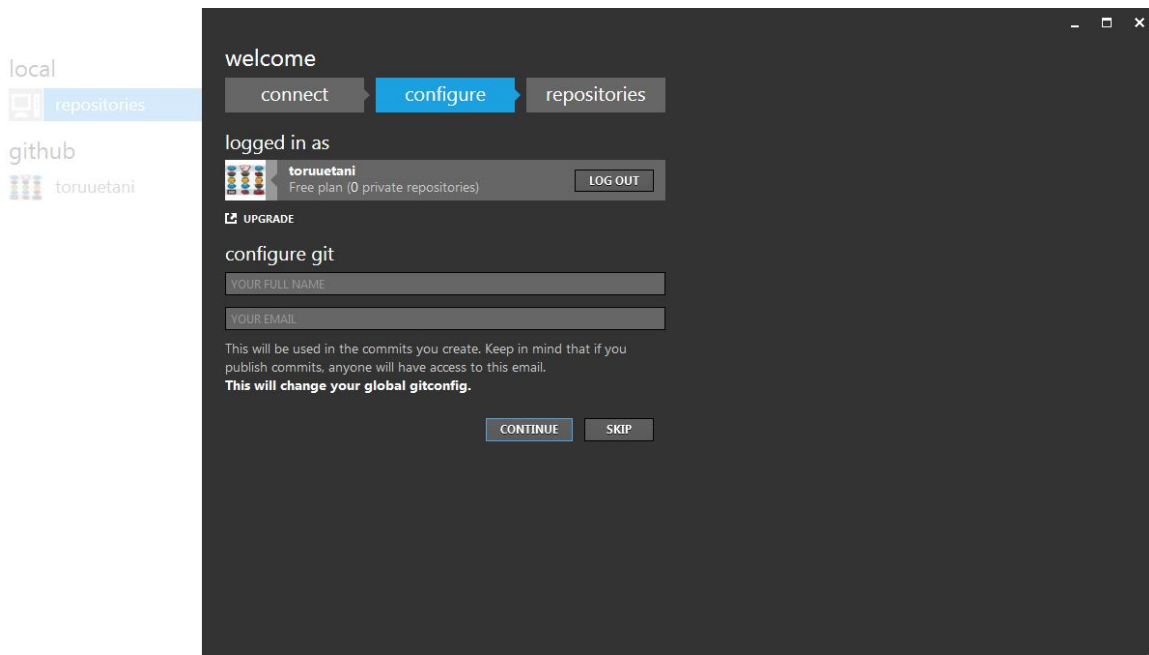


## 6. GitHub LOG IN

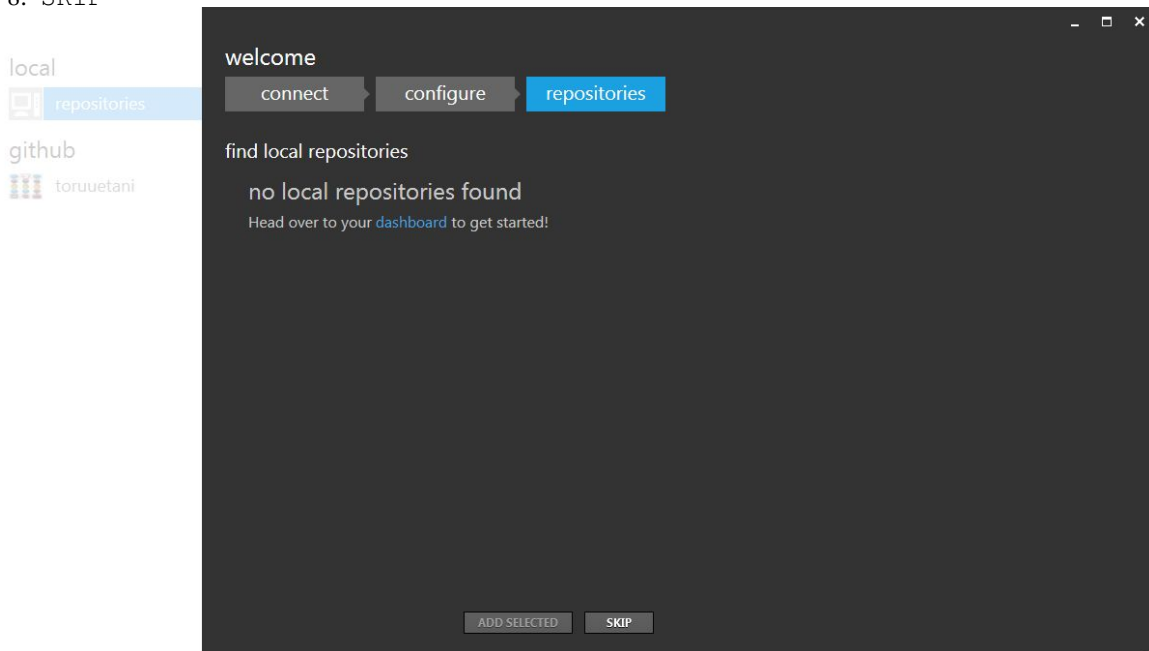


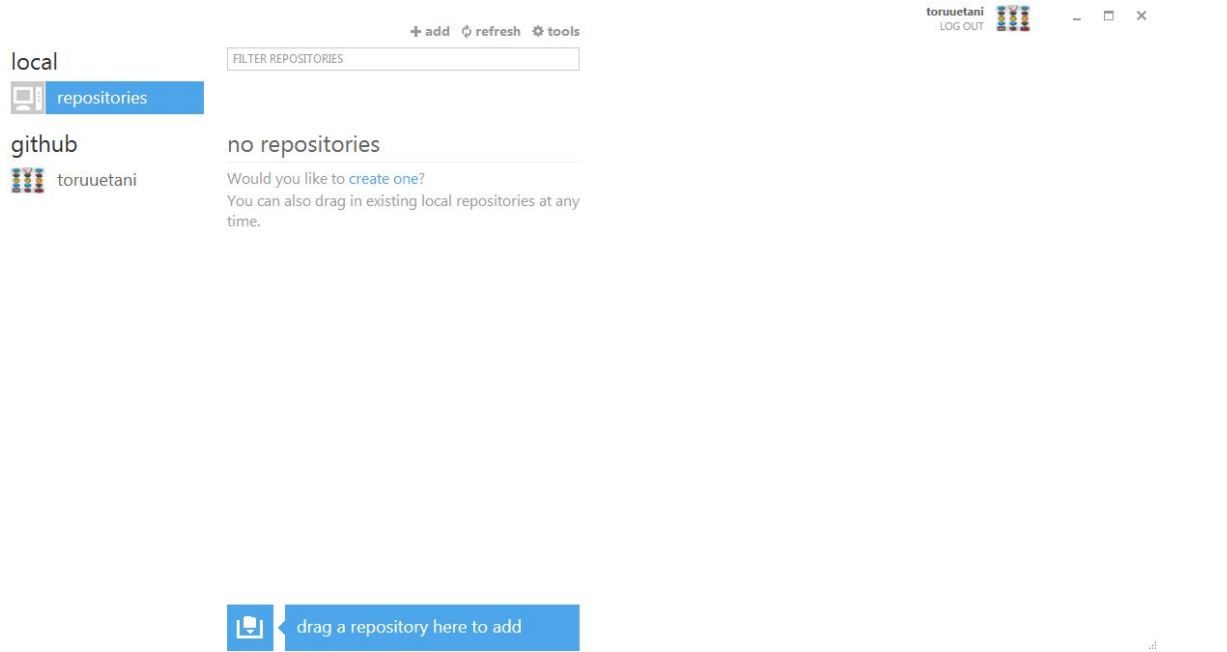
## 7. Git CONTINUE





## 8. SKIP

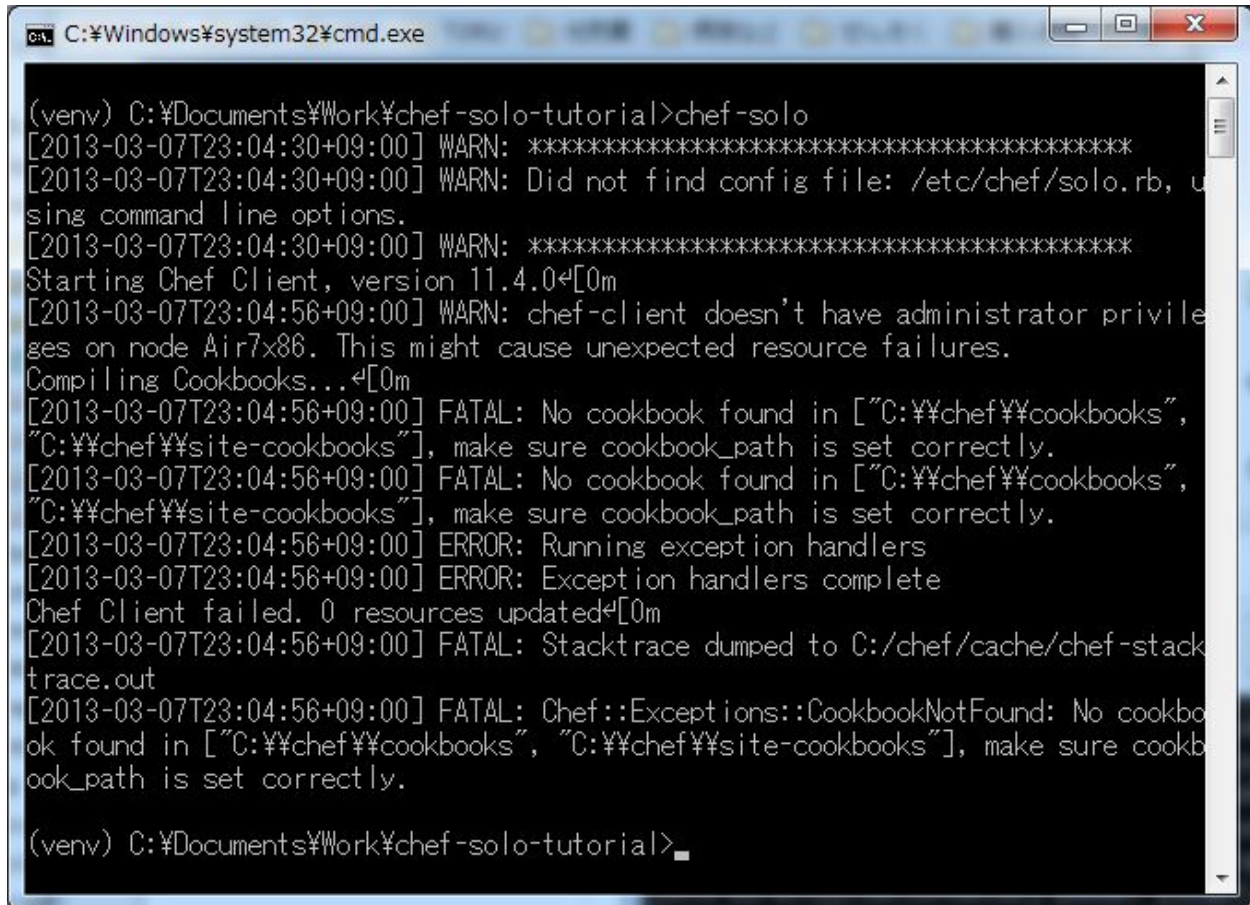




9.

## 1.4 Chef-solo

Chef-solo `chef-solo`



```

C:\Windows\system32\cmd.exe

(venv) C:\Documents\Work\chef-solo-tutorial>chef-solo
[2013-03-07T23:04:30+09:00] WARN: *****
[2013-03-07T23:04:30+09:00] WARN: Did not find config file: /etc/chef/solo.rb, u
sing command line options.
[2013-03-07T23:04:30+09:00] WARN: *****
Starting Chef Client, version 11.4.0
[2013-03-07T23:04:56+09:00] WARN: chef-client doesn't have administrator privile
ges on node Air7x86. This might cause unexpected resource failures.
Compiling Cookbooks...
[2013-03-07T23:04:56+09:00] FATAL: No cookbook found in ["C:\chef\cookbooks",
"C:\chef\site-cookbooks"], make sure cookbook_path is set correctly.
[2013-03-07T23:04:56+09:00] FATAL: No cookbook found in ["C:\chef\cookbooks",
"C:\chef\site-cookbooks"], make sure cookbook_path is set correctly.
[2013-03-07T23:04:56+09:00] ERROR: Running exception handlers
[2013-03-07T23:04:56+09:00] ERROR: Exception handlers complete
Chef Client failed. 0 resources updated
[2013-03-07T23:04:56+09:00] FATAL: Stacktrace dumped to C:/chef/cache/chef-stack
trace.out
[2013-03-07T23:04:56+09:00] FATAL: Chef::Exceptions::CookbookNotFound: No cookbo
ok found in ["C:\chef\cookbooks", "C:\chef\site-cookbooks"], make sure cookb
ook_path is set correctly.

(venv) C:\Documents\Work\chef-solo-tutorial>_

```

Chef-solo

### 1.4.1 Chef

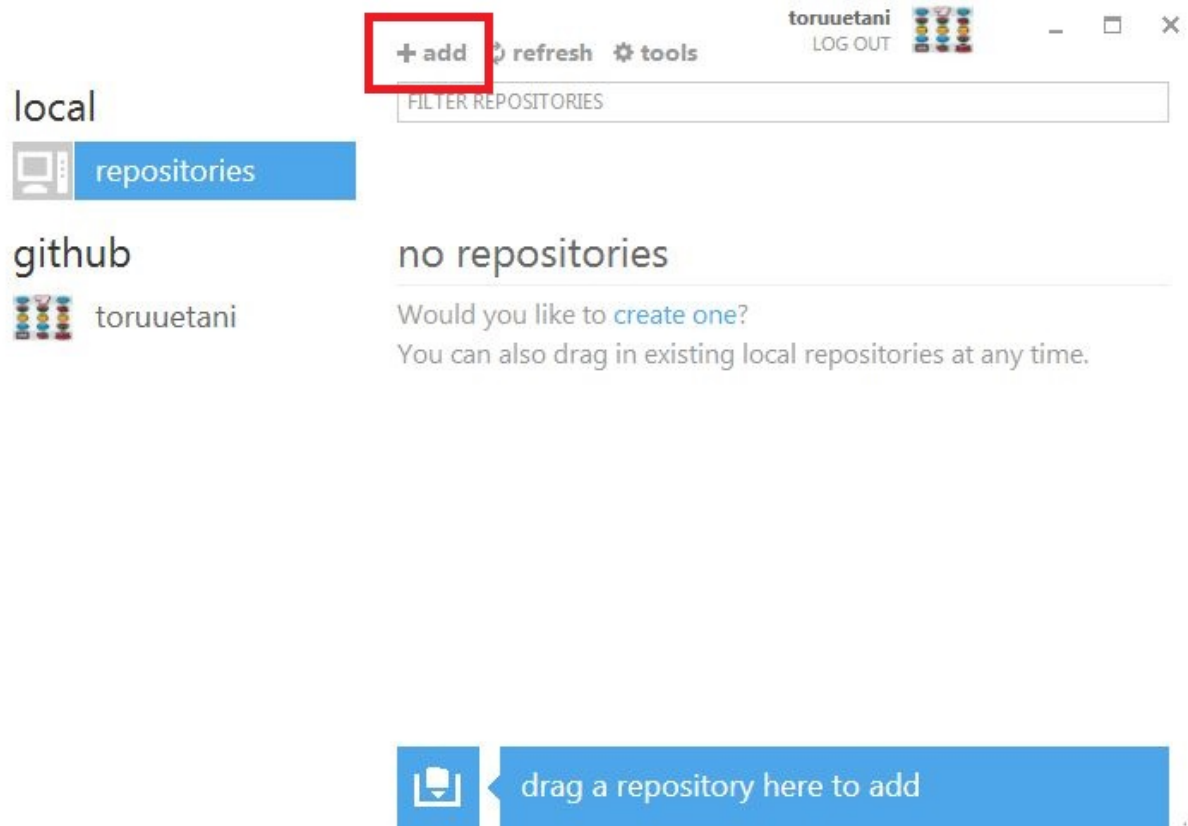
Chef Git

---

**Hint:** C:\chef-repo

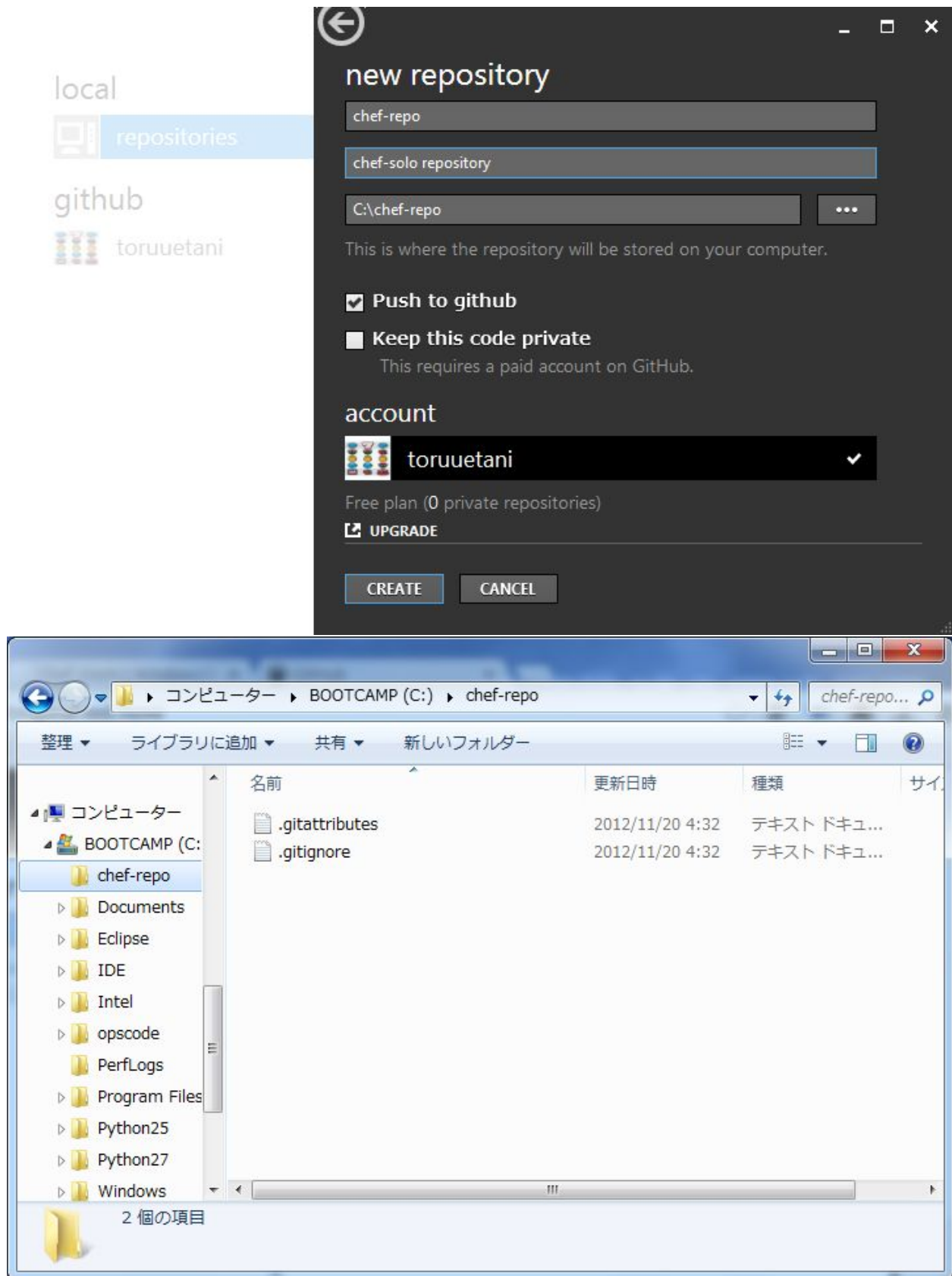
---

GitHub for Windows add



create

- chef-repo
- chef-solo repository
- C:\chef-repo(... C:\)



GitHub for Windows

local

repositories

github

toruuetani

toruuetani

LOG OUT

+ add

refresh

tools

FILTER REPOSITORIES

toruuetani/chef-repo

Init

toruuetani/chef-repo

publish

master

tools

select all

2 files to be committed

.gitattributes

new

.gitignore

new

uncommitted changes

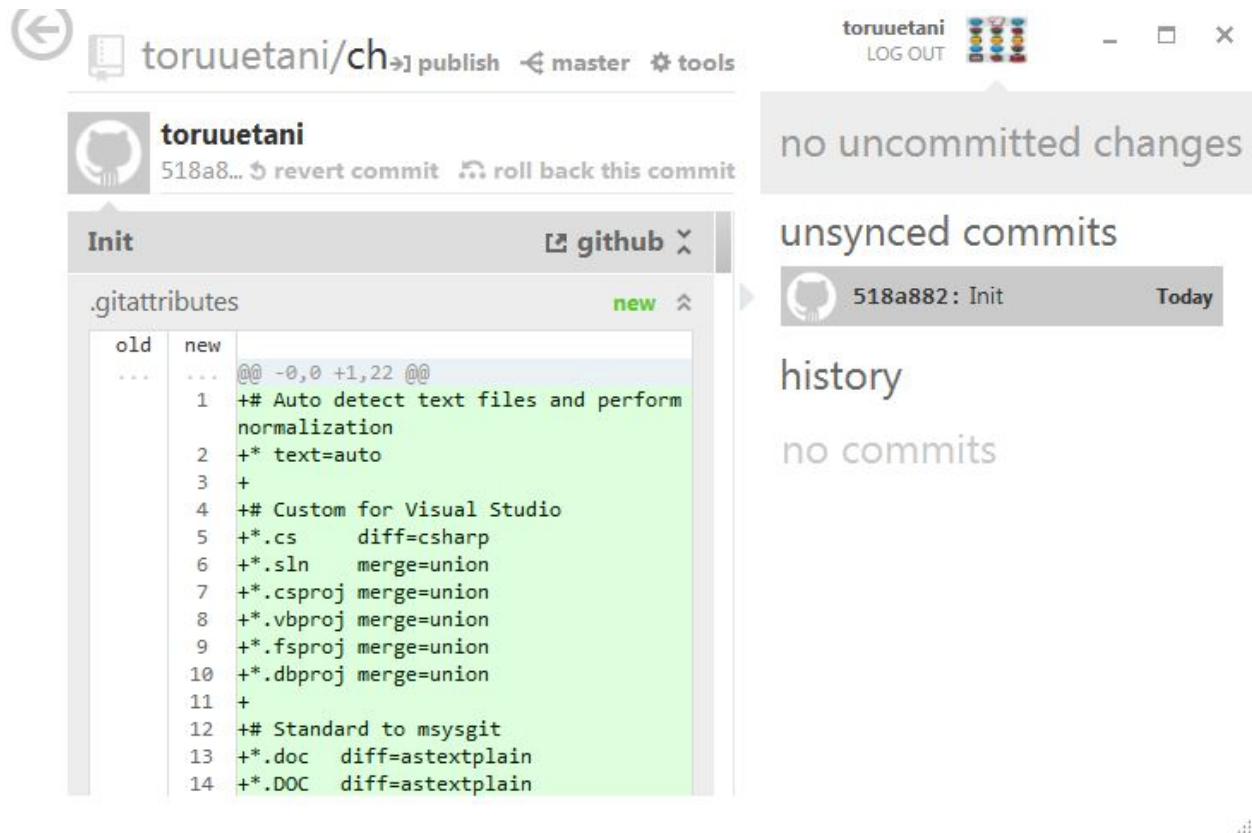
Init

EXTENDED DESCRIPTION (OPTIONAL)

COMMIT

history

no commits



## 1.4.2 solo.rb

Chef-solo C:\chef-repo\solo.rb file\_cache\_path cookbook\_path

```

1 file_cache_path File.join(Dir.pwd, 'cache')
2 cookbook_path  File.join(Dir.pwd, 'cookbooks')

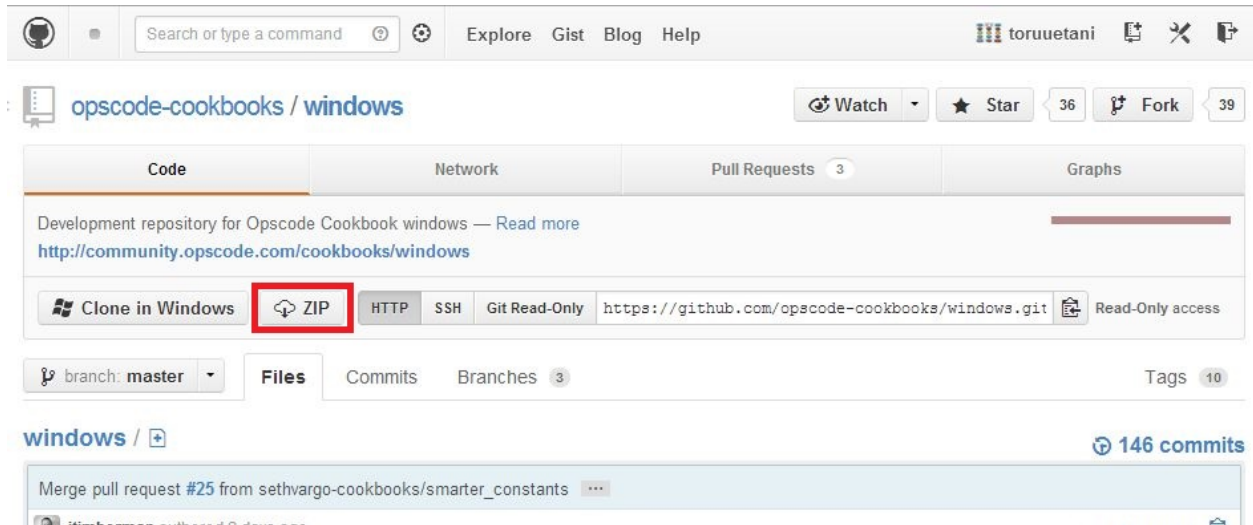
```

Chef-solo Windows

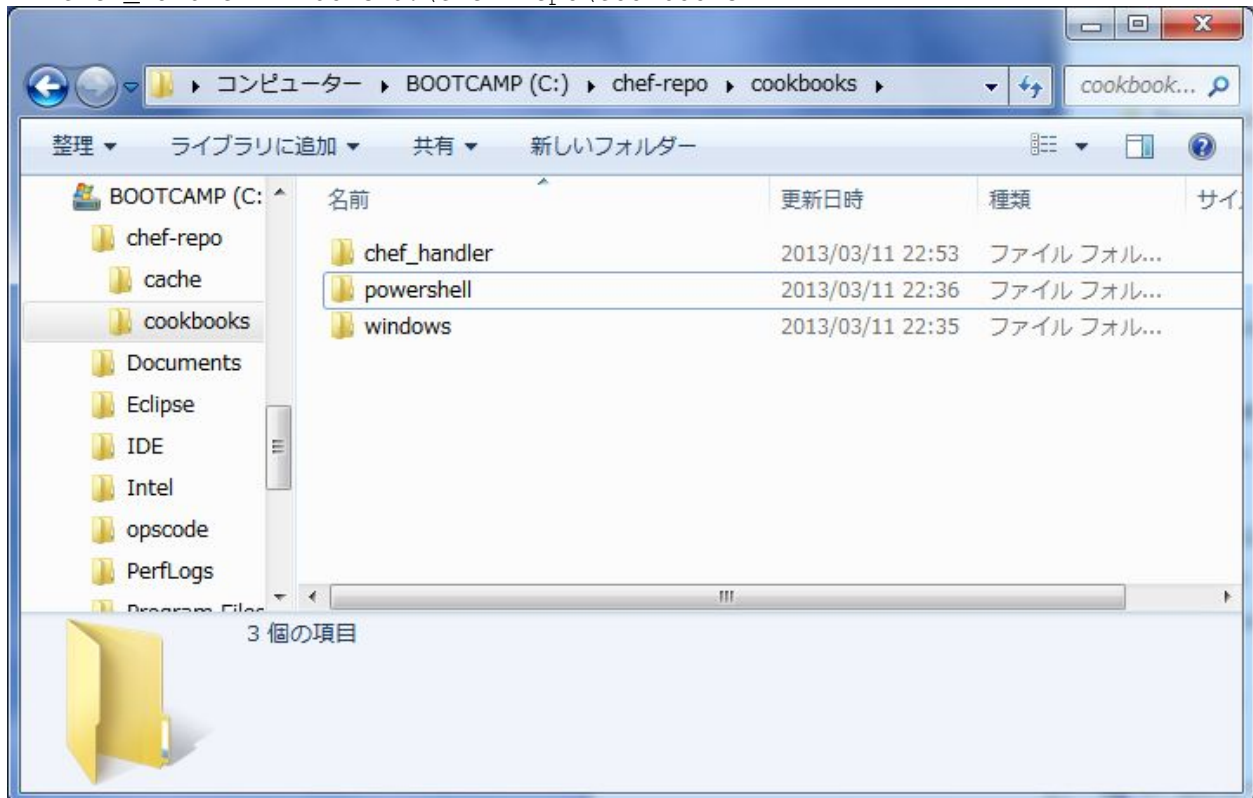
## 1.4.3 Windows Resource

Windows Resource opscore recipe Cookbook

- opscore-cookbooks/chef\_handler · GitHub
- opscore-cookbooks/windows · GitHub
- opscore-cookbooks/powershell · GitHub



ZIP chef\_handler windows C:\chef-repo\cookbooks



Cookbook / Recipe win\_default.json

```
1 cd C:\chef-repo
2 echo >> win_default.json
3 notepad.exe win_default.json
```

win\_default.json

```
1 {
2   "run_list" : [
3     "recipe[windows]"
```



```
4     ]
5 }
```

Chef-solo Chef-solo

```
1 cd C:\chef-repo
2 chef-solo -c solo.rb -j win_default.json
```

Chef

Recipe



### Chef

- [Chef clientWindows](#) -
- [chef-soloWindows](#) -
- [PuppetChef](#) - Masatomo Nakano Blog
- [Chef](#) - Masatomo Nakano Blog
- [Rubyist Magazine - Chef \( 1 \)](#)
- [Rubyist Magazine - Chef \( 2 \)](#)
- [chef-solo knife-solo](#) -

### Read the Docs

- [ReadTheDocsSphinx](#) - YAMAGUCHI::weblog
- [Read The Docs \(Sphinx\)](#) - secretbases.log