Managing Workstation

Complicate your setup with Chef Solo

Setup Workstation

- Install Git
- Install Hg
- Install Vim

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- Git // Hg // Vim

- Fedora 17

sudo yum install git mercurial vim-enhanced

- Ubuntu / Debian

sudo apt-get install git mercurial vim

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sudo yum install git mercurial vim-enhanced

- Ubuntu / Debian

sudo apt-get install git mercurial vim

apt-get install git hg vim

```
git clone\
    git://github.com/techtonik/workstation.git
cd workstation/chef
sudo yum install rubygems ruby-devel gcc
sudo gem install chef --no-ri --no-rdoc
sudo gem install librarian --no-ri --no-rdoc
librarian-chef install
sudo `which chef-solo` -c config-solo.rb
```
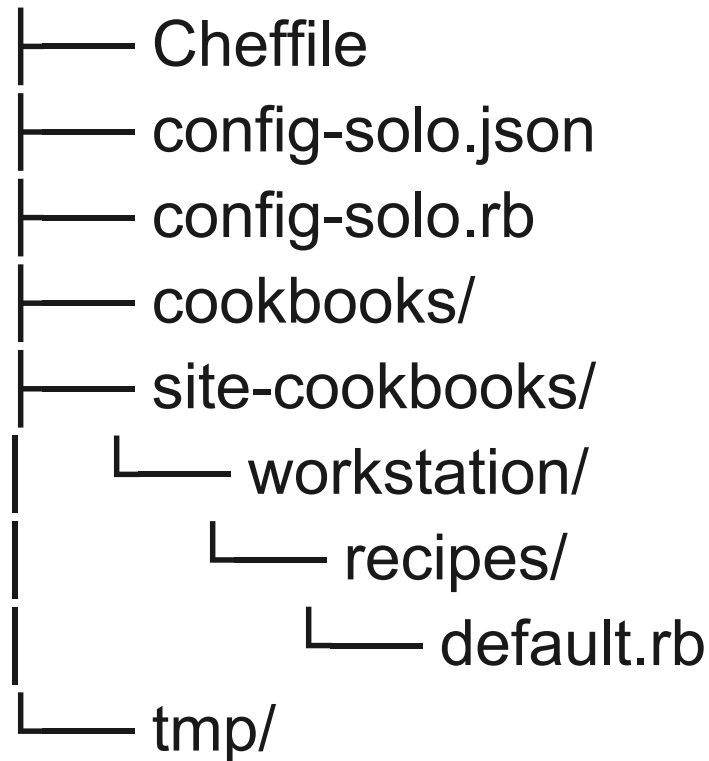
But Why?!

- No need to remember `which apt-get/yum` (obviously)
- No need to remember which package name you need for `hg` or `whatever`
- No need to remember that you actually need `hg`

What is included

- Some complexity
- Configuration repository
  (Git Repository, Chef Repository)
- Shared setup knowledge (cookbooks)
- Copy/paste setup

How it looks like

```
├──── Cheffile
├──── config-solo.json
├──── config-solo.rb
├──── cookbooks/
├──── site-cookbooks/
│     └──── workstation/
│           └──── recipes/
│                 └──── default.rb
└──── tmp/
```

How it looks like

```
├────── Cheffile
├────── config-solo.json
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│        └────── workstation
│               └────── recipes/
│                      └────── default.rb
└────── tmp/
```

`chef-solo -c config-solo.rb`

config-solo.rb

root = File.absolute_path(File.dirname(__FILE__))

json_attribs root + "/**config-solo.json**"
cookbook_path [root+"/cookbooks", root+"/site-cookbooks"]

chef-solo -c config-solo.rb

config-solo.json

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

`chef-solo -c config-solo.rb`

```
site-cookbooks/
└── workstation
    └── recipes/
        └── default.rb
```

```ruby
package 'git'
package 'mercurial'
include_recipe 'vim'

git cookroot+"/vim" do
  repository "git://github.com/opscode-cookbooks/vim.git"
  notifies :run, "script[chef restart]"
end
```

```
...
    └────── recipes/
            └────── default.rb
```

```ruby
include_recipe 'vim'

git cookroot+"/vim" do
    repository "git://github.com/opscode-cookbooks/vim.git"
    notifies :run, "script[chef restart]"
end

script "chef restart" do
    action :nothing
    interpreter "python"
    code "import sys; sys.exit('New Cookbooks downloaded. Please
restart.')"
end
```

Chef Solo

- Crippled Chef

- Works alone

- Doesn't know about external Cookbooks

- He has a friend

Librarian-Chef

- Maintains Cookbooks

```
$ librarian-chef
Tasks:
  clean      # Cleans out the cache and install paths.
  init       # Initializes the current directory.
  install    # Resolves and installs all of the dependencie...
  outdated     # Lists outdated dependencies.
  show       # Shows dependencies
  update   # Updates and installs the dependencies
```
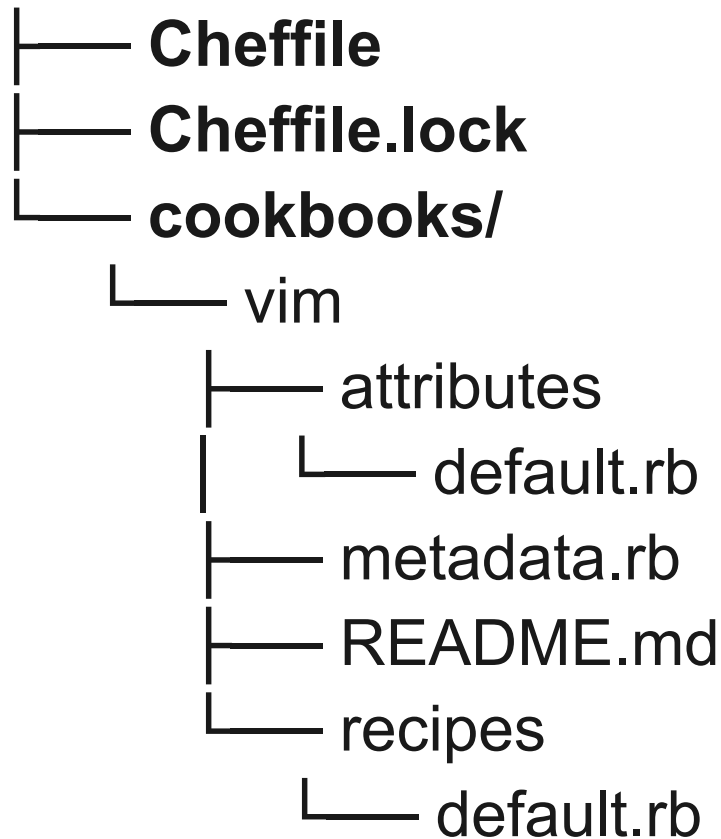
How it looks like

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├──── Cheffile
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│      └──── workstation
│            └──── recipes/
│                   └──── default.rb
└──── tmp/
```

librarian install

Librarian and Cookbooks

```
├──── Cheffile
├──── Cheffile.lock
└──── cookbooks/
      └──── vim
            ├──── attributes
            │     └──── default.rb
            ├──── metadata.rb
            ├──── README.md
            └──── recipes
                  └──── default.rb
```

librarian install

Cheffile

```ruby
#!/usr/bin/env ruby
#^syntax detection
```

```ruby
site 'http://community.opscode.com/api/v1'

# cookbook 'apache2', '>= 1.0.0'

# cookbook 'postgresql',
#   :git => 'https://github.com/findsyou/cookbooks',
#   :ref => 'postgresql-improvements'
```

Git + Mercurial + Vim

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sudo apt-get install git mercurial

Git + Mercurial + Vim

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