

DevOps for Web Developers

Mitesh Soni

Video 4.5

Installing Software Packages using Cookbooks



In this Video, we are going to take a look at...

- Setting up the runtime environment
- Installing Java and Tomcat to run a Java EE application



Nodes

Reports

Policy

Administration

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0 0

■ success ■ failure ■ aborted

Dashboard

Run History

No Data Available.

Run Durations

■ success ■ failure ■ aborted



No Data Available.

Chef Manage

Chef Community Coo...

GitHub, Inc. (US) | https://github.com/chef-cookbooks

Search



This organization

Search

Pull requests

Issues

Gist

+

+



Chef Community Cookbooks

This repository is for public community cookbooks that are shared on the supermarket site.

Seattle, WA

https://supermarket.chef.io

cookbooks@chef.io

Repositories

People 6

Pinned repositories

docker

Chef Cookbook for Docker

Ruby ★ 659 🍴 393

mysql

Development repository for Chef Software mysql cookbook

Ruby ★ 284 🍴 681

tomcat

Development repository for tomcat Chef cookbook

Ruby ★ 85 🍴 303

chef_nginx

Chef Software support NGINX cookbook

Ruby ★ 28 🍴 18

community_cookbook_documentation

Persistent documentation for all Chef owned community cookbooks

★ 7 🍴 6

cookbook-quality-metrics

Measurements of quality for cookbooks in the Chef Supermarket

Ruby ★ 5 🍴 9

Search repositories...

Type: All

Language: All

bluepill

Development repository for bluepill Chef Cookbook

Top languages

Ruby HTML Shell C

Applications ▾Places ▾Firefox Web Browser ▾

Mon 13:40

openssl Cookbook - Chef Supermarket - Mozilla Firefox

Chef Manage ×Chef Community Coo... ×tomcat Cookbook - C... ×openssl Cookbook - ... ×

https://supermarket.chef.io/cookbooks/openssl

Search

Advanced Options ▾

RSS

openssl

(18) Versions6.0.0 ▾

Follow128

Provides a library with a method for generating secure random passwords.

Berkshelf/LibrarianPolicyfileKnife


cookbook 'openssl', '~> 6.0.0'

README




Dependencies

Changelog

Quality

chef

Chef Software



DETAILS

View Source

View Issues

UPDATED SEPTEMBER 8, 2016

Created on February 26, 2010

PLATFORMS

LICENSE


Source Code

OpenSSL Cookbookhttps://supermarket.chef.io/cookbooks/openssl

[root@localhost:/home/user/Desktop...]

openssl Cookbook - Chef Superm...

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 COOKBOOKS TOOLS & PLUGINS MORE INFORMATION CREATE ACCOUNT SIGN IN

Cookbooks ▾ Search GO

Advanced Options ▾

RSS


java (67) Versions 1.42.0 ▾

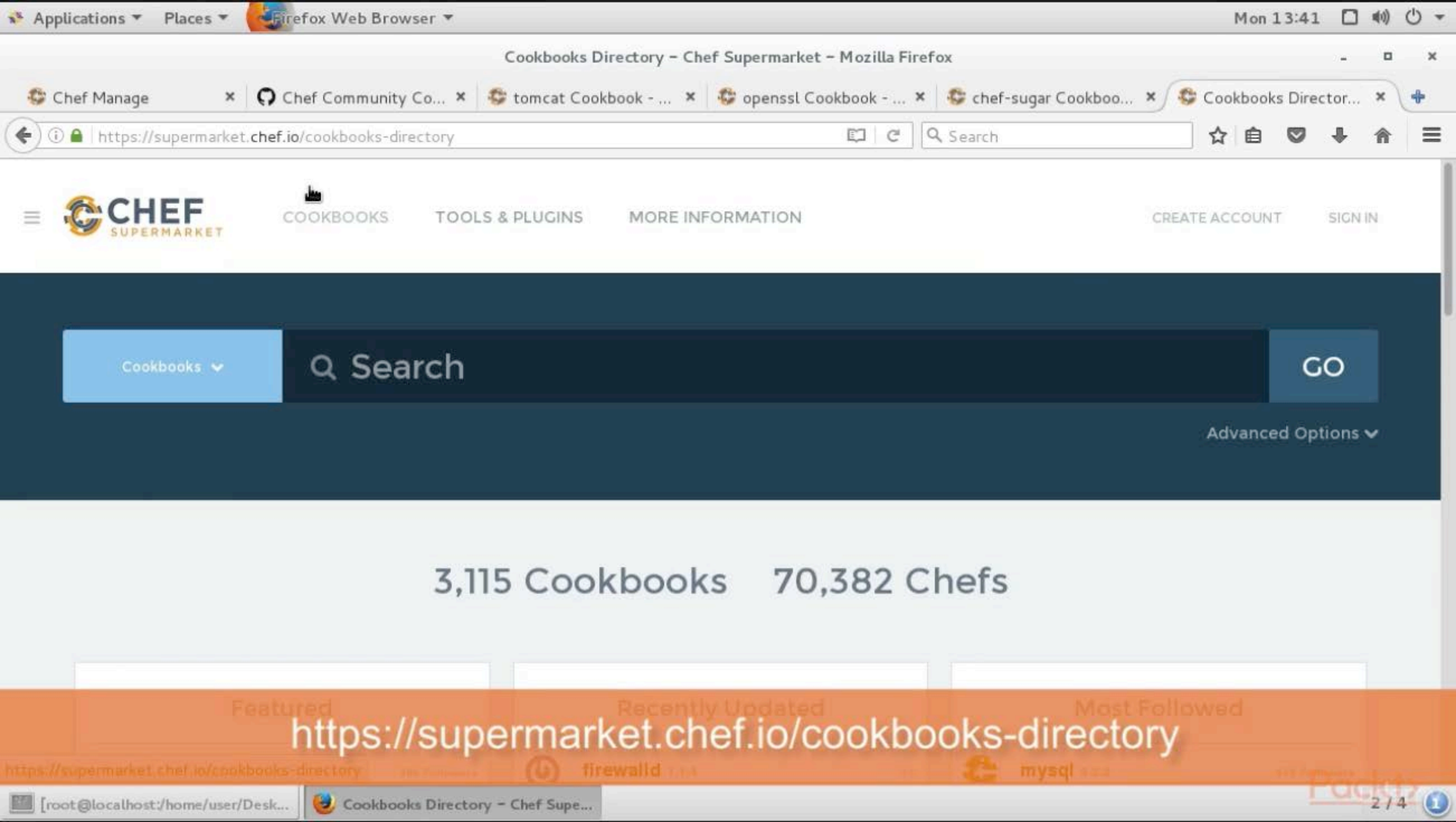
Follow 410

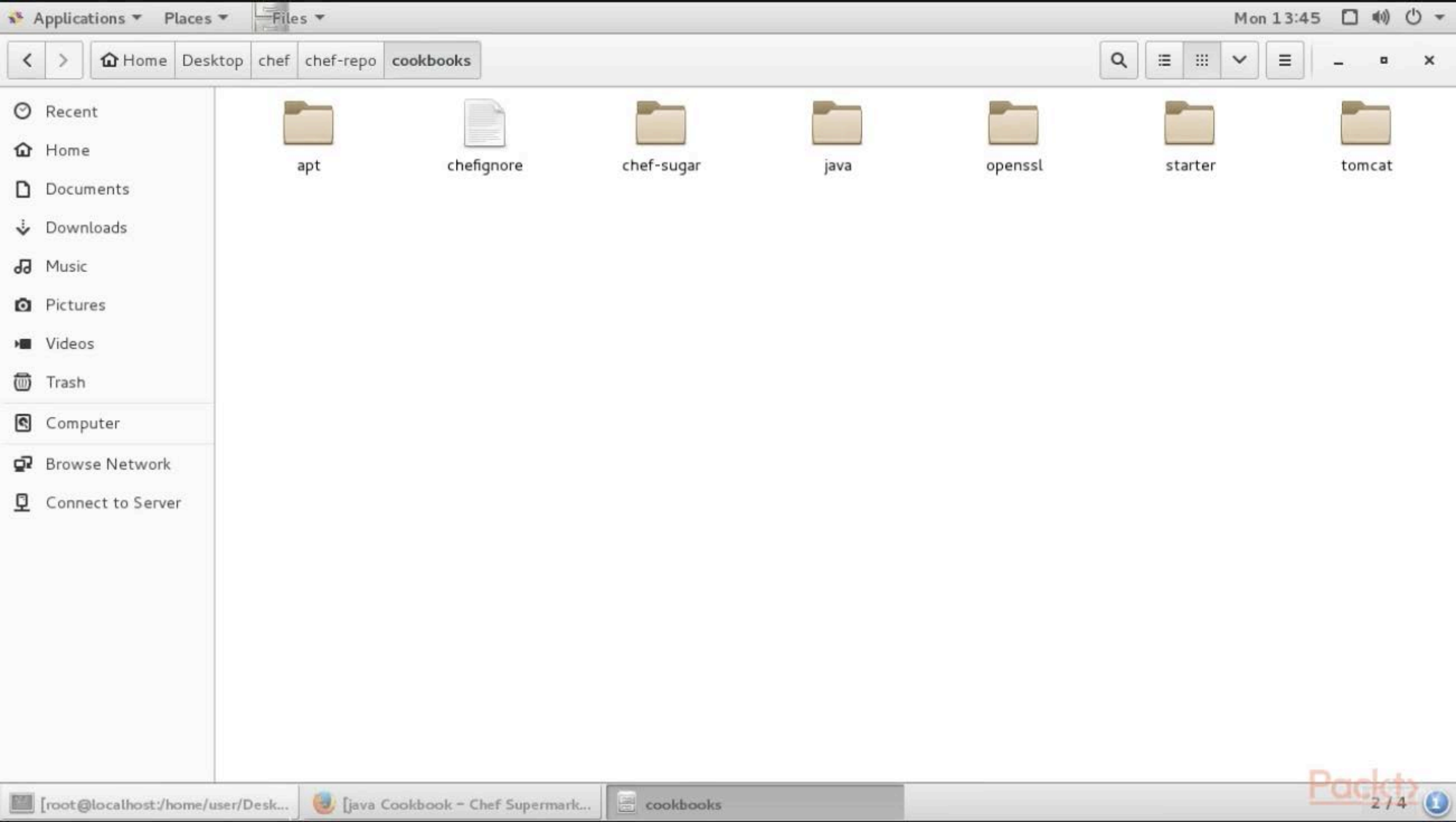
Installs Java runtime.

Berkshelf/Librarian Policyfile Knife

agileorbit agileorbit







root@localhost:/home/user/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```
[root@localhost ~]# knife bootstrap 192.168.122.1 -x root -P pass123 -N tomcatserver
```

```
WARNING: No knife configuration file found
```

```
WARN: Failed to read the private key /etc/chef/client.pem: #<Errno::ENOENT: No such file or directory @ rb_sysopen - /etc/chef/client.pem>
```

```
ERROR: Your private key could not be loaded from /etc/chef/client.pem
```

```
Check your configuration file and ensure that your private key is readable
```

```
[root@localhost ~]# cd '/home/user/Desktop/chef/chef-repo'
```

```
[root@localhost chef-repo]# knife bootstrap 192.168.122.1 -x root -P pass123 -N tomcatserver
```

```
Creating new client for tomcatserver
```

```
Creating new node for tomcatserver
```

```
Connecting to 192.168.122.1
```

```
192.168.122.1 -----> Existing Chef installation detected
```

```
192.168.122.1 Starting the first Chef Client run...
```

```
192.168.122.1 Starting Chef Client, version 12.16.42
```

```
192.168.122.1 resolving cookbooks for run list: []
```

```
192.168.122.1 Synchronizing Cookbooks:
```

```
192.168.122.1 Installing Cookbook Gems:
```

```
192.168.122.1 Compiling Cookbooks...
```

```
192.168.122.1 [2016-12-05T13:30:14+05:30] WARN: Node tomcatserver has an empty run list.
```

```
192.168.122.1 Converging 0 resources
```

```
192.168.122.1
```

```
192.168.122.1 Running handlers:
```

```
192.168.122.1 Running handlers complete
```

```
192.168.122.1 Chef Client finished, 0/0 resources updated in 35 seconds
```

```
[root@localhost chef-repo]#
```

I

root@localhost:/home/user/Desktop/chef/chef-repo/cookbooks

File Edit View Search Terminal Help

```
[root@localhost cookbooks]# ls
apt  chefire  chef-sugar  java  openssl  starter  tomcat
[root@localhost cookbooks]# cd
```

root@localhost:/home/user/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```
[root@localhost cookbooks]# ls
apt  cheignore  chef-sugar  java  openssl  starter  tomcat
[root@localhost cookbooks]# cd ..
[root@localhost chef-repo]# knife cookbook upload apt
Uploading apt [5.0.0]
ERROR: Cookbook apt depends on cookbooks which are not currently
ERROR: being uploaded and cannot be found on the server.
ERROR: The missing cookbook(s) are: 'compat_resource' version '>= 12.14.7'
[root@localhost chef-repo]#
```

I

➤ Cookbooks

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Showing All Cookbooks

Cookbook	Current Version
apt	5.0.0
compat_resource	12.16.2

Details Content Permissions

License

Apache 2.0

Versions

5.0.0

README

apt Cookbook

[\[\[Build Status\]\]\[travis\]](#) [\[\[Cookbook Version\]\]cookbook](#)

This cookbook includes recipes to execute apt-get update to ensure the local APT package cache is up to date. There are recipes for managing the apt-cacher-ng caching proxy and proxy clients. It also includes a custom resource for managing APT repositories in /etc/apt/sources.list.d as well as an



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Showing All Cookbooks

Cookbook

Current Version

apt

5.0.0

compat_resource

12.16.2

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Apache 2.0

Versions

5.0.0

README

apt Cookbook

[\[\[Build Status\]\]\[travis\]](#) [\[\[Cookbook Version\]\]cookbook](#)

This cookbook includes recipes to execute apt-get update to ensure the local APT package cache is up to date. There are recipes for managing the apt-cacher-ng caching proxy and proxy clients. It also includes a custom resource for managing APT repositories in /etc/apt/sources.list.d as well as an custom resource for pinning packages via /etc/apt/preferences.d.

root@localhost:/home/user/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```
[root@localhost chef-repo]# knife cookbook upload apt
Uploading apt [5.0.0]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload chef-sugar
Uploading chef-sugar [3.4.0]
```

root@localhost:/home/user/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```
ERROR: being uploaded and cannot be found on the server.
ERROR: The missing cookbook(s) are: 'build-essential' version '>= 2.1.2'
[root@localhost chef-repo]# knife cookbook upload ohai
Uploading ohai [4.2.3]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload windows
Uploading windows [2.1.1]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload build-essential
Uploading build-essential [7.0.2]
ERROR: Cookbook build-essential depends on cookbooks which are not currently
ERROR: being uploaded and cannot be found on the server.
ERROR: The missing cookbook(s) are: 'seven_zip' version '>= 0.0.0', 'mingw' version '>= 1.1'
[root@localhost chef-repo]# knife cookbook upload seven_zip
Uploading seven_zip [2.0.2]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload mingw
Uploading mingw [1.2.4]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload build-essential
Uploading build-essential [7.0.2]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload homebrew
Uploading homebrew [2.1.2]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload java
Uploading java [1.42.0]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload openssl
```


root@localhost:/home/user/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```
Uploading ohai [4.2.3]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload windows
Uploading windows [2.1.1]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload build-essential
Uploading build-essential [7.0.2]
ERROR: Cookbook build-essential depends on cookbooks which are not currently
ERROR: being uploaded and cannot be found on the server.
ERROR: The missing cookbook(s) are: 'seven_zip' version '>= 0.0.0', 'mingw' version '>= 1.1'
[root@localhost chef-repo]# knife cookbook upload seven_zip
Uploading seven_zip [2.0.2]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload mingw
Uploading mingw [1.2.4]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload build-essential
Uploading build-essential [7.0.2]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload homebrew
Uploading homebrew [2.1.2]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload java
Uploading java [1.42.0]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload openssl
Uploading openssl [6.0.0]
Uploaded 1 cookbook.
[root@localhost chef-repo]# knife cookbook upload tomcat
```


➤ Cookbooks

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Showing All Cookbooks

Cookbook	Current Version
apt	5.0.0
compat_resource	12.16.2

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Showing All Cookbooks

Cookbook	Current Version
apt	5.0.0
compat_resource	12.16.2

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Showing All Cookbooks

Cookbook	Current Version
apt	5.0.0
build-essential	7.0.2
chef-sugar	3.4.0
compat_resource	12.16.2
homebrew	2.1.2

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Creating a Role