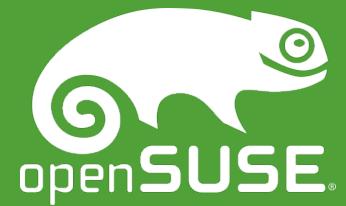


Open Build Service

實作練習

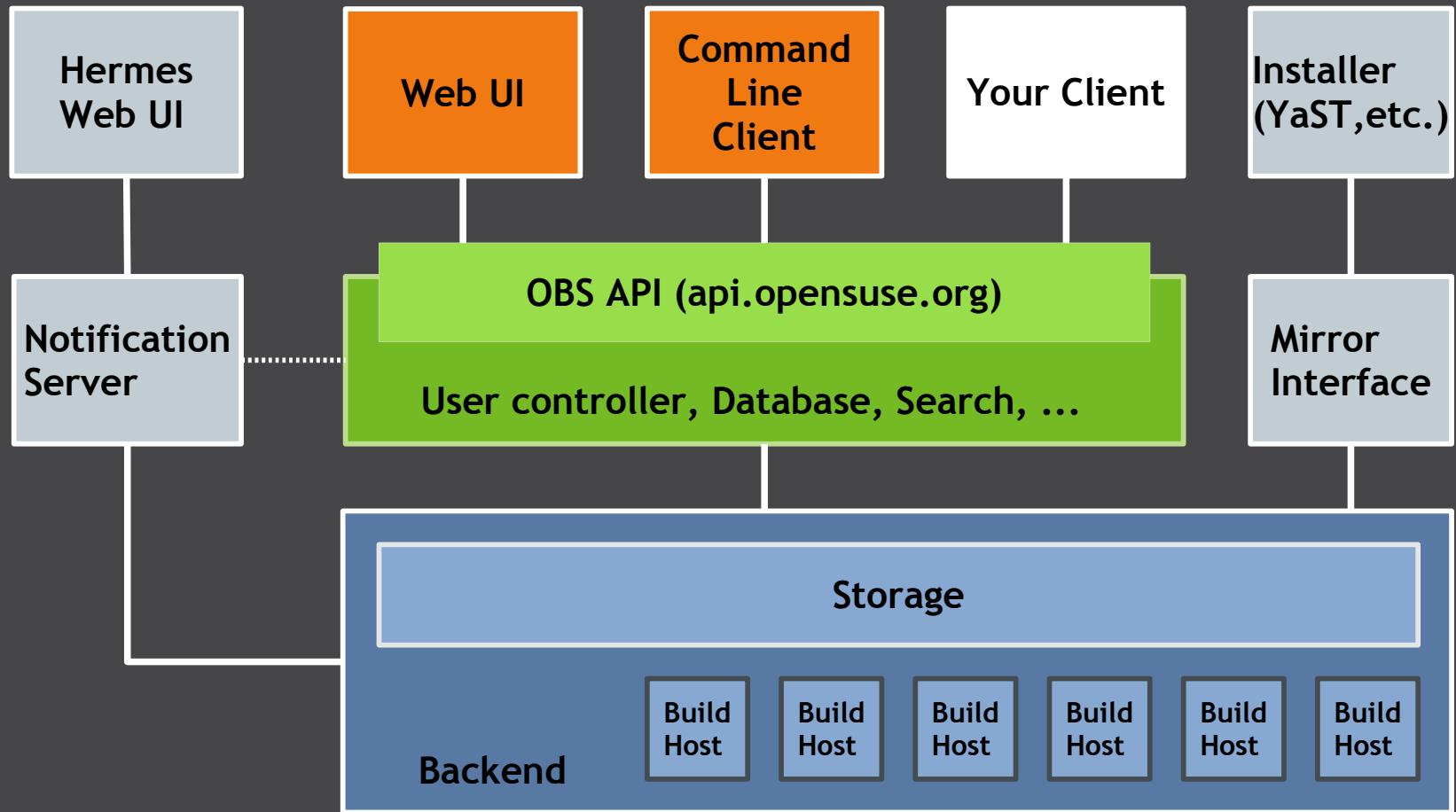
Gary Lin – Software Engineer, SUSE Labs
glin@suse.com



目標

- 打包自己的套件
- 了解 OBS 的協作功能

Open Build Service



<http://openbuildservice.org/files/workshops/OBS-Packager-Workshop.odp>

Web UI

Command Line Client

OBS API (api.opensuse.org)

User controller, Database, Search, ...

Web UI

Downloads Support Community Development Watchlist

openSUSE Build Service > Projects > games > valyriatear gary_lin | Home Project | Logout

Overview Repositories Revisions Requests Users Advanced

Valyria Tear

Valyria Tear is an attempt at creating a free (as meant in the GNU General Public License) J-RPG game.

Branch package Submit package Request role addition Request deletion

Source Files

Show 25 entries Search:

Filename	Size	Changed	Actions
update.sh	875 Bytes	8 months ago	
use-system-luabind.patch	9.65 KB	8 months ago	
ValyriaTear-1.0.0+20160126.tar.xz	97.3 MB	8 months ago	
valyriatear.changes	924 Bytes	8 months ago	
valyriatear.spec	2.82 KB	8 months ago	

Showing 1 to 5 of 5 entries Previous 1 Next

Latest Revision

Matthias Mailänder (Mailaender) accepted request 359951 7 months ago (revision 4)
Updated to fix build

Files changed Browse Source

Build Results	Rpmint Results
SLE_12_SP1	x86_64 succeeded
openSUSE_13.1	i586 succeeded
openSUSE_13.2	x86_64 succeeded
openSUSE_Leap_42.1	i586 succeeded
openSUSE_Leap_42.2	x86_64 succeeded
openSUSE_Tumbleweed	i586 failed
	x86_64 succeeded

Command Line Client

```
lcp@LCPDesk valyriatear $ osc build openSUSE_13.2 x86_64
Run source service: /usr/libexec/obs/service/format_spec_file --outdir /tmp/tmp3CxAr9
Run source service: /usr/libexec/obs/service/source_validator --outdir /tmp/tmp17jiP7
/usr/libexec/obs/service/source_validators/20-files-present-and-referenced: line 186: no match: /home/
lcp/project/build/games/valyriatear/*keyring
Building valyriatear.spec for openSUSE_13.2/x86_64
Getting buildinfo from server and store to /home/lcp/project/build/games/valyriatear/.osc/_buildinfo-o
penSUSE_13.2-x86_64.xml
Getting buildconfig from server and store to /home/lcp/project/build/games/valyriatear/.osc/_buildconf
ig-openSUSE_13.2-x86_64
Updating cache of required packages

The build root needs packages from project 'devel:languages:haskell'.
Note that malicious packages can compromise the build result or even your system.
Would you like to ...
0 - quit (default)
1 - always trust packages from 'devel:languages:haskell'
2 - trust packages just this time
? █
```

<http://openbuildservice.org/download/>



Let's Party!

註冊帳號

openSUSE Build Service

Welcome to openSUSE Build Service

The openSUSE Build Service is the public instance of the [Open Build Service \(OBS\)](#) used for development of the openSUSE distribution and to offer packages from same source for Fedora, Debian, Ubuntu, SUSE Linux Enterprise and other distributions..

Please find further details of this service on our [wiki pages](#)

This instance offers a special [package search interface](#). Users of any distribution can search their for built packages for their distribution. For developers it is an efficient place to build up groups and work together through its project model.

<https://build.opensuse.org>

System Status

Busy workers

upgraded to version 6.6

adrianSuSE wrote about 2 months ago
OBS code base got updated to current git master

adrianSuSE wrote 4 months ago
Debian 8.0 and Ubuntu 15.04 got imported

adrianSuSE wrote 4 months ago
All home projects getting rescanned atm. Changes will not trigger builds immediately atm.

Latest Updates

設定本地端帳號

- \$ osc -A <https://api.opensuse.org>

Home Project

Downloads Support Community Development Watchlist [Logout](#)

openSUSE Build Service

Welcome to openSUSE Build Service

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This instance offers a special [package search interface](#). Users of any distribution can search their for built packages for their distribution. For developers it is an efficient place to build up groups and work together through its project model.

Your Home All Projects Search New Project Status Monitor

System Status

A line chart titled "System Status" showing the number of "Busy workers" over a period from July 31 to August 6. The Y-axis represents the number of workers, ranging from 0 to 500. The X-axis shows dates from Jul 31 to Aug 6. The chart shows significant fluctuations, with peaks around 450 workers on Aug 1, 3 Aug, and 5 Aug, and troughs around 100 workers on Aug 2 and 4 Aug.

Busy workers

Jul 31 Aug 1 Aug 2 Aug 3 Aug 4 Aug 5 Aug 6

Sponsor

heinlein
We provide Knowledge and Experience

Announcements

adrianSuSE wrote about 2 months ago
OBS code base got updated to current git master

adrianSuSE wrote about 2 months ago
Fedora 22 got imported. CentOS 6 got upgraded to version 6.6

adrianSuSE wrote 3 months ago
Debian 8.0 and Ubuntu 15.04 got imported

adrianSuSE wrote 4 months ago
All home projects getting rescanned atm. Changes will not trigger builds immediately atm.

Latest Updates

glibc 1 minute ago

新增套件 (網頁)

The screenshot shows the openSUSE Build Service (OBS) web interface. At the top, there is a navigation bar with links for Downloads, Support, Community, Development, Watchlist, and a user account (gary_lin). Below the navigation bar, the URL is openSUSE Build Service > Projects > home:gary_lin > Overview. On the right side of the header, there are links for gary_lin | Home Project | Logout.

The main content area has several tabs: Overview (selected), Repositories, Monitor, Requests, Users, Subprojects, and Advanced. The Overview tab displays "gary_lin's Home Project". It shows a message: "No description set" and provides links for Report bug, Create patchinfo, Edit description, and Delete project.

In the "Packages (0)" section, it says "This project does not contain any packages" and features two buttons: "Create package" (highlighted with a red circle) and "Branch existing package".

The "Build Results" section says "This project currently has no build targets defined."

The "Comments for home:gary_lin (0)" section has a text input field for adding a new comment and a "Add comment" button.

At the bottom, there is a footer with sections for "gary_lin:", "Locations", "Help", and "Contact".

The "gary_lin:" section includes links for Your Profile, Home Project, and Logout.

The "Locations" section includes links for Projects, Search, and Status Monitor.

The "Help" section includes links for Open Build Service, OBS Manuals, openSUSEs OBS Portal, and Reporting a Bug.

The "Contact" section includes links for Mailing List, Forums, Chat (IRC), and Twitter.

At the very bottom, a note states: "Open Build Service (OBS) is an openSUSE project." The background of the page features a pattern of green and blue hexagons.

新增套件 (本地端)

- \$ osc co home:<user> # checkout project
- \$ cd home:<user>
- \$ osc mkgac ctris # 新增套件
- \$ cd ctris
- \$ vim ctris.spec # 撰寫 spec 檔

ctris.spec

```
Name: ctris
Summary: Console based Tetris clone
URL: http://www.hackl.dhs.org/ctris/
License: GPL-2.0
Group: Amusements/Games/Action/Arcade
Version: 0.42
Release: 1
Source: %{name}-%{version}.tar.bz2
BuildRoot: %{_tmppath}/%{name}-%{version}-build
BuildRequires: ncurses-devel
Requires: ncurses
```

```
%description
```

```
An ASCII version of the well known game Tetris
```

```
%prep
```

```
%setup -q
```

```
%build
```

```
make
```

```
%install
```

```
%make_install
```

```
%debug_package
```

```
%clean
```

```
rm -rf $RPM_BUILD_ROOT;
```

```
%files
```

```
%defattr (-,root,root)
```

```
%doc AUTHORS COPYING README TODO
```

```
%doc %{_mandir}/man6/ctris.6.gz
```

```
/usr/games/ctris
```

<http://paste.opensuse.org/8035d628>

新增套件內容

- \$ wget <tarball url> -O ctris-0.42.tar.bz2
下載原始碼
- \$ osc vc # 撰寫 changelog
- \$ osc addremove # 標記新增或移除的檔案
- \$ osc ci -m "Ya! I am a packager." # 上傳

<http://www.hackl.dhs.org/data/download/download.php?file=ctris-0.42.tar.bz2>
Short URL: <http://goo.gl/zWJXyd>

設定編譯目標

openSUSE Build Service > Projects > home:gary_lin > Repositories

Watchlist gary_lin | Home Project | Logout

Overview Repositories Monitor Requests Users Subprojects Advanced

Repositories of home:gary_lin

You can configure individual flags for this project here.

Add repositories

Build Flag

All

Debuginfo Flag

All

Publish Flag

All

Use for Build Flag

All

gary_lin:

- Your Profile
- Home Project
- Logout

Locations

- Projects
- Search
- Status Monitor

Help

- Open Build Service
- OBS Manuals
- openSUSE's OBS Portal
- Reporting a Bug

Contact

- Mailing List
- Forums
- Chat (IRC)
- Twitter

Open Build Service (OBS) is an openSUSE project.

編譯套件 (本地端)

- \$ osc build openSUSE_Leap_42.1 x86_64

編譯目標

CPU 架構

- \$ osc localbuildlog # 檢查 build log
- \$ osc chroot # 切換到 build root

檢查伺服器編譯進度

- \$ osc results # 編譯狀態
- \$ osc prjresults #project 狀態
- \$ osc remotebuildlog home:<user> ctris
openSUSE_Leap_42.1 x86_64 # 詳細的 build log
- \$ osc getbinaries home:<user> ctris
openSUSE_Leap_42.1 x86_64 # 下載 rpm

開放下載

The screenshot shows the openSUSE Build Service interface for the project 'home:gary_lin'. The top navigation bar includes links for Downloads, Support, Community, Development, Watchlist, and user gary_lin's profile.

The main content area displays the 'Attributes' section for the project. It features tabs for Overview, Repositories, Monitor, Requests, Users, Subprojects, Project Config, Attributes, Meta, and Status. The 'Repositories' tab is selected.

Repositories of home:gary_lin

You can configure individual flags for this project here.

openSUSE_Leap_42.1 (x86_64)
openSUSE:Leap:42.1/standard

Actions for this repository include:

- Edit repository
- Delete repository
- Go to download repository (highlighted with a red circle)

Other actions available are:

- Add repositories

Build Flag

Repository	All	x86_64
All		
openSUSE_Leap_42.1		

Debuginfo Flag

Repository	All	x86_64
All		
openSUSE_Leap_42.1		

Publish Flag

For the 'openSUSE_Leap_42.1' repository, the 'Publish Flag' status is shown as 'Enable' (highlighted with a red circle). The status is indicated by a green icon with a checkmark.

Use for Build Flag

Repository	All
All	
openSUSE_Leap_42.1	

gary_lin:

- Your Profile
- Home Project
- Logout

Locations

- Projects
- Search
- Status Monitor

Help

- Open Build Service
- OBS Manuals
- openSUSEs OBS Portal
- Reporting a Bug

Contact

- Mailing List
- Forums
- Chat (IRC)
- Twitter

使用現有的套件

- \$ osc copypac <src prj> <src pkg> <dest prj>
拷貝現有套件（不連動）
- \$ osc linkpac <src prj> <src pkg> <dest prj>
連結現有套件（連動）



共同協作

Branch 現有套件

- \$ osc branch home:gary_lin ctris
- \$ osc co \
home:<user>:branches:home:gary_lin/ctris
- \$ cd \
home:<user>:branches:home:gary_lin/ctris

改動內容

- \$ vim ctris.spec
- \$ osc vc
- \$ osc addremove
- \$ osc build openSUSE_Leap_42.1 x86_64
- \$ osc ci -m “another change”

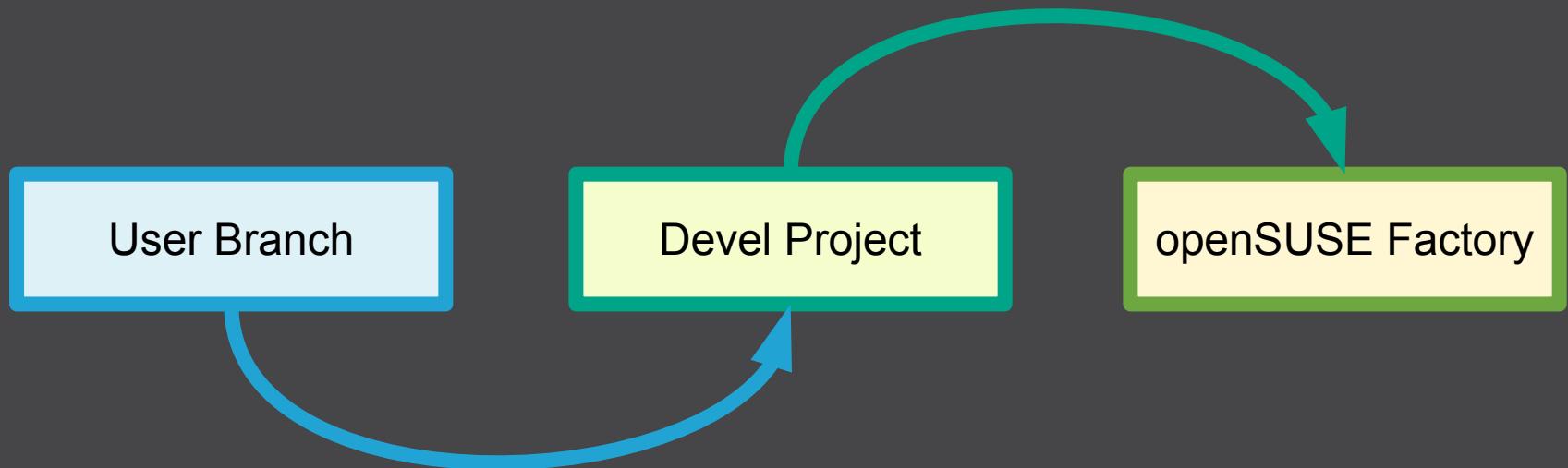
送出改動

- \$ osc submitreq # 產生改動要求
- \$ osc request -M # 列出自己的改動要求

檢查新增的改動

- \$ osc request list home:gary_lin
列出該 project 的改動要求
- \$ osc request accept <id> -m "thanks!"
接受改動

openSUSE 開發流程



Specfile Guidelines

https://en.opensuse.org/openSUSE:Specfile_guidelines

Notification



Hermes is the name of the notification service. It receives, integrates and sends notifications you want to receive, in real time.

<https://hermes.opensuse.org>

openSUSE Build Service: package building results

Build Failure Receive a notification every time a package fails to build.	<input type="checkbox"/> My Packages <i>All packages where you are listed as maintainer in the package.</i>	E-mail	No digest / immediate delivery
	<input type="checkbox"/> My Projects <i>All projects where you are listed as maintainer.</i>	E-mail	No digest / immediate delivery
Build Success Receive a notification every time a package was build successfully.	<input type="checkbox"/> My Packages <i>All packages where you are listed as maintainer either in the package or the project.</i>	E-mail	No digest / immediate delivery

openSUSE Build Service: Request Notifications

OBS Request Create Receive a notification when a request is created.	<input type="checkbox"/> My incoming Requests <i>All requests where you are listed in the target project.</i>	E-mail	No digest / immediate delivery
OBS Request Change Receive a notification when a request state is changed.	<input type="checkbox"/> My incoming Requests <i>All requests where you are listed in the target project.</i>	E-mail	No digest / immediate delivery
	<input type="checkbox"/> My created Requests <i>All requests you are the author of.</i>	E-mail	No digest / immediate delivery
OBS Review Requests Receive a notification when somebody asks you for a review of a request.	<input type="checkbox"/> My incoming Review Tasks <i>All reviews of requests where you are involved.</i>	E-mail	No digest / immediate delivery

PackMan



<http://packman.links2linux.org/>

<https://pmbs.links2linux.org/>

PackMan

twenty latest updates:

openSUSE_Leap 42.1

chromium-pepper-flash 23.0.0.162-1.1 (x86_64)	7 hours ago	View
flash-player 11.2.202.635-1.1 (x86_64)	7 hours ago	View

openSUSE Tumbleweed

chromium-pepper-flash 23.0.0.162-1.1 (x86_64)	7 hours ago	View
chromium-pepper-flash 23.0.0.162-1.1 (i586)	7 hours ago	View
flash-player 11.2.202.635-1.1 (x86_64)	7 hours ago	View
flash-player 11.2.202.635-1.1 (i586)	7 hours ago	View

openSUSE 13.2

chromium-pepper-flash 23.0.0.162-1.1 (x86_64)	8 hours ago	View
chromium-pepper-flash 23.0.0.162-1.1 (i586)	8 hours ago	View
flash-player 11.2.202.635-1.1 (x86_64)	8 hours ago	View
flash-player 11.2.202.635-1.1 (i586)	8 hours ago	View

openSUSE 13.1

vivaldi 1.4.589.11-1.2 (i586)	4 hours ago	View
opencv 3.1.0-91.17 (x86_64)	7 hours ago	View
opencv 3.1.0-91.17 (i586)	7 hours ago	View
chromium-pepper-flash 23.0.0.162-1.1 (x86_64)	8 hours ago	View
chromium-pepper-flash 23.0.0.162-1.1 (i586)	8 hours ago	View
vivaldi 1.4.589.11-1.2 (x86_64)	8 hours ago	View
flash-player 11.2.202.635-1.1 (x86_64)	8 hours ago	View
flash-player 11.2.202.635-1.1 (i586)	8 hours ago	View

SLE 12

chromium-pepper-flash 23.0.0.162-1.1 (x86_64)	7 hours ago	View
flash-player 11.2.202.635-1.1 (x86_64)	7 hours ago	View

Questions?

Docker and openSUSE workshop 101

2016/10/22(六) 14:00 ~ 17:00

摩茲工寮 / 台北市中正區八德路一段 94 號 3F

<http://opensuse-tw.kktix.cc/events/docker101-tpe>

Join the conversation,
contribute & have a lot of fun!
www.opensuse.org

Thank you.



Have a lot of fun and join us at:

www.opensuse.org

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Credits

Template

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Design & Inspiration

openSUSE Design Team

<http://opensuse.github.io/branding-guidelines/>