

Getting Started on Packaging Apps with *Open Build Service*

Learn How To Build Package

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/



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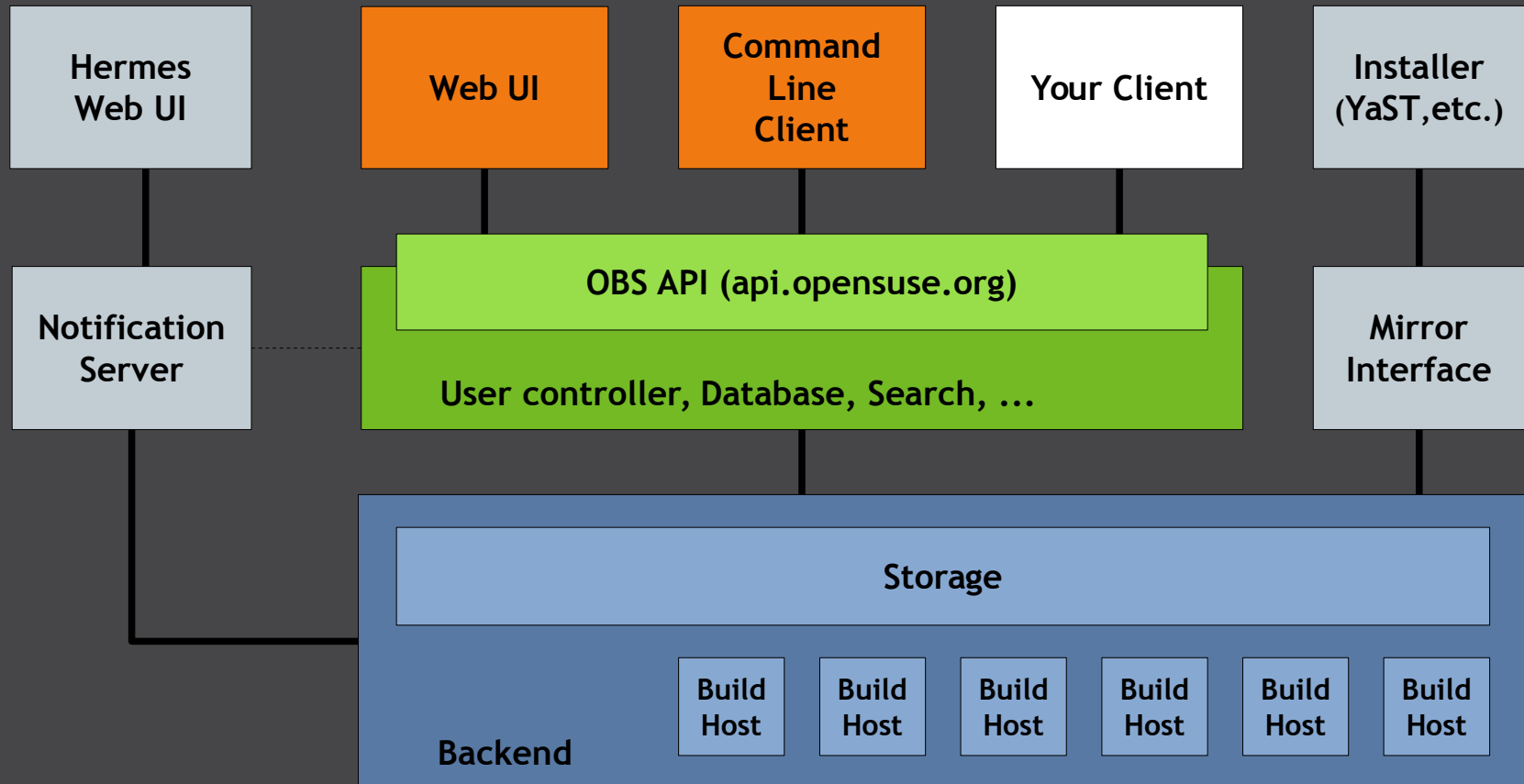
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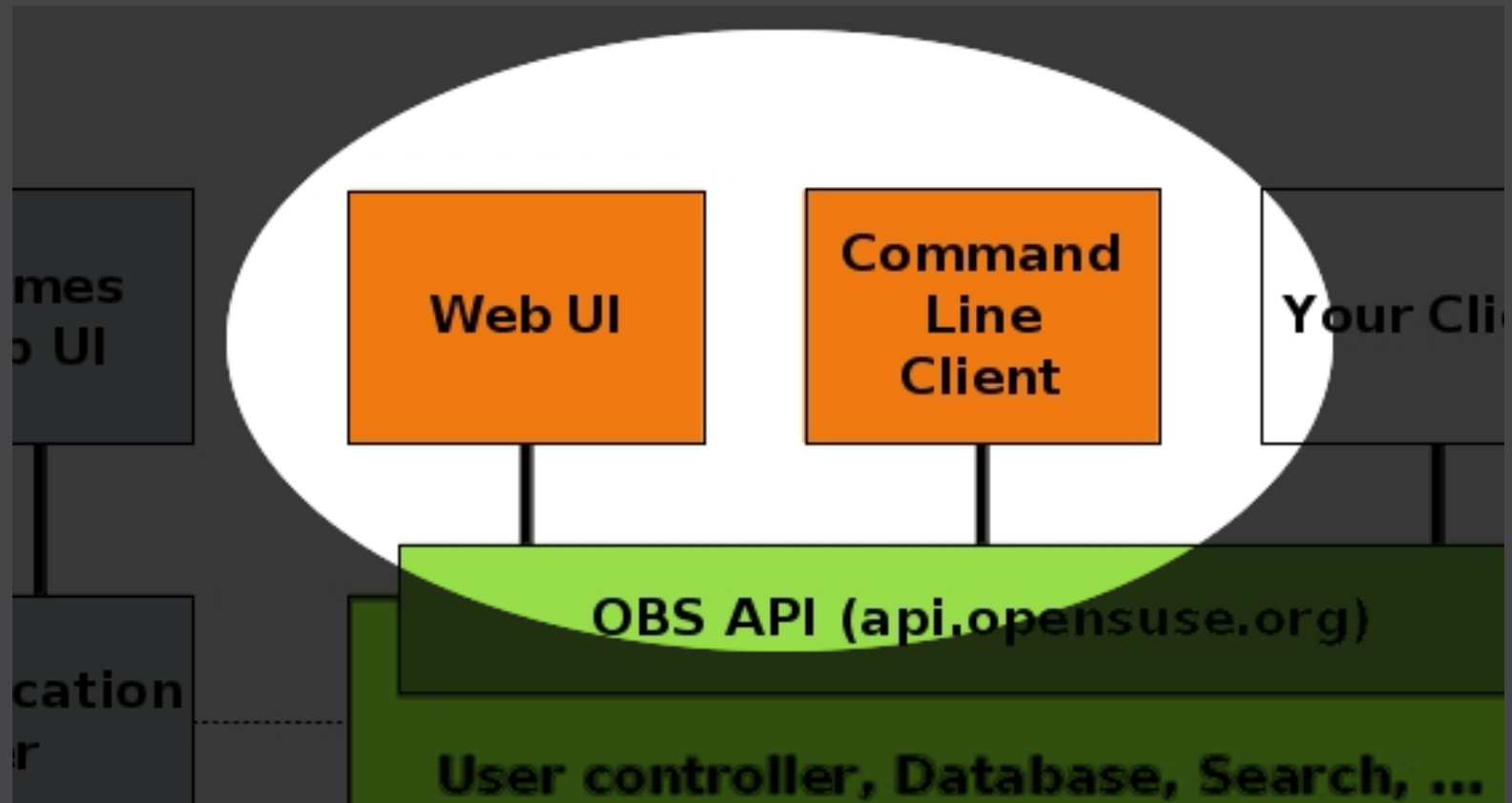
openSUSE Build Service



Components Overview



Packagers OBS Tools



Packagers OBS Tools

Reference Server



build.opensuse.org

Packagers OBS Tools *Web Client*

Show home:andisugandi – openSUSE Build Service
https://build.opensuse.org/project/show/home:andisugandi

Downloads Support Community Development

openSUSE Build Service > Projects > home:andisugandi > Overview Sign Up | Log In

Overview Repositories Monitor Requests Users Subprojects Advanced

andisugandi's Home Project 5 build errors

My testing packages, mostly web based applications.
 Report bug Request role addition Request deletion

Packages (8)

Search:

drupal6

hotot-qt-nokde

ignsdk

newscoop

perl-Module-Bundled-Files

perl-Text-CSV-Encoded

python3-pygame

screenFetch

Showing 1 to 8 of 8 entries

Build Results

CentOS_7	x86_64	succeeded: 2 failed: 1 unresolvable: 2 broken: 1 disabled: 2
Fedora_20	i586	succeeded: 2 failed: 2 unresolvable: 1 broken: 1 disabled: 2
	x86_64	succeeded: 2 failed: 2 unresolvable: 1 broken: 1

Packagers OBS Tools

osc

```
Julia CreativeLabs: OBS
julia ketikode OBS $ osc

Your user account / password are not configured yet.
You will be asked for them below, and they will be stored in
/home/julia/.osrc for future use.

Creating osc configuration file /home/julia/.osrc ...
Username: andisugandi
Password:
done
Usage: osc [GLOBALOPTS] SUBCOMMAND [OPTS] [ARGS...]
or: osc help SUBCOMMAND

openSUSE build service command-line tool.
Type 'osc help <subcommand>' for help on a specific subcommand.

commands:
  add                Mark files to be added upon the next commit
  addchannels        Add channels to project.
  addremove (ar)     Adds new files, removes disappeared files
  aggregatepac       "Aggregate" a package to another package
  api                Issue an arbitrary request to the API
```

Creating Packages

The background features a geometric pattern of large hexagonal shapes. A large teal hexagon occupies the upper left portion. To its right and below are green hexagons. At the bottom left, a blue hexagon is partially visible. These shapes are separated by a network of dark grey lines that form a honeycomb-like structure.

Creating Packages

1

- ✓ Create a package
- ✓ in your own home project
- ✓ on the reference server

Creating openSUSE Account



Installing osc

```
$ sudo zypper ar -r http://r.opensu.se/devel  
  ↳ :tools:scm/openSUSE_Leap_42.1/r  
  
$ sudo zypper in osc
```

Log in to OBS via osc

```
$ osc co home:<username>  
$ cd home:<username>
```

*Example:

home:andisugandi

Making Package Project

```
$ osc mkpac screenFetch  
$ cd screenFetch
```

*Package example of this workshop is: **screenFetch**

Providing Package's Source Code

```
$ wget https://codeload.github.com/KittyKatt/  
  ➔ screenFetch/tar.gz/v3.7.0
```


Editing .spec File

```
$ vim screenFetch.spec
```

*Example:

https://build.opensuse.org/package/view_file/home:yaumulmajid/screenFetch/screenFetch.spec

Marking Files to be Committed

```
$ osc addremove
```

Building Packages

The background of the slide is composed of large, interlocking hexagonal shapes. A large teal hexagon occupies the upper left portion. To its right is a green hexagon. Below the teal one is a blue hexagon. These shapes are separated by a network of dark grey lines that form a honeycomb-like pattern across the entire slide.

Building Packages

2

- ✓ Build a package
- ✓ locally on your laptop
- ✓ and on the reference server

Creating (distribution) build target(s)

```
$ osc meta prj -e home:<username>
```

Creating (distribution) build target(s)

```
<project name="home:<username>">
  <title/>
  <description/>
  <person userid="<username>" role="maintainer"/>

  <repository name="openSUSE_42.1">
    <path project="openSUSE:Leap:42.1" repository="standard"/>
    <arch>i586</arch>
    <arch>x86_64</arch>
  </repository>
</project>
```

Setting Up Local Build Environment ... [1]

```
$ sudo mount openSUSE-Leap-42.1-DVD-x86_64.iso  
  ➔ /run/media/summit2016/openSUSE-Leap-42.1-DVD  
  ➔ -x86_64026 -o loop
```

Setting Up Local Build Environment ... [2]

```
$ sudo mkdir -p /var/tmp/osbuild-  
  ➔ packagecache/openSUSE\:Leap\:42.1/standard
```


Setting Up Local Build Environment ... [3]

```
$ sudo cp -r /run/media/summit2016/openSUSE-Leap  
  ➔ -42.1-DVD-x86_64026/suse/* /var/tmp/osbuild  
  ➔ -packagecache/openSUSE\:Leap\:42.1/standard
```

Setting Up Local Build Environment ... [4]

```
$ sudo find /var/tmp/osbuild-packagecache  
  ➔ /openSUSE\:Leap\:42.1/standard -type d -exec  
  ➔ chmod 755 {} \;
```

Setting Up Local Build Environment ... [5]

```
$ sudo find /var/tmp/osbuild-packagecache  
  ➔ /openSUSE\:Leap\:42.1/standard -type f -exec  
  ➔ chmod 644 {} \;
```

Building (screenFetch) Package Locally

```
$ sudo osc build openSUSE_42.1 x86_64  
  ↪ screenFetch.spec
```

*Example build log (*built successfully*):

<http://paste.opensuse.org/view/simple/4027883>

The Resulting Package (Locally)

```
/var/tmp/build-root/openSUSE_42.1-x86_64/home/abuild/
```

```
➔ rpmbuild/SRPMS/screenFetch-3.7.0-0.src.rpm
```

```
/var/tmp/build-root/openSUSE_42.1-x86_64/home/abuild/
```

```
➔ rpmbuild/RPMS/noarch/screenFetch-3.7.0-0.noarch.rpm
```

*See corresponding log for details

Building Package on OBS Server

```
$ osc commit
```

*Fill in the data required (example, via: VIM text editor), Pres [i] to start writing.

Example Commit Message

```
Thu Oct 6 12:44:44 UTC 2016 - andisugandi@opensuse.org  
- First check in of the screenFetch 3.7.0 package
```

*To stop writing and quit VIM: Press [Esc], then: [:] [w] [q] [Enter]

The Resulting Package on OBS Server

Show home:yaumulmajid / screenFetch – openSUSE Build Service
https://build.opensuse.org/package/show/home:yaumulmajid/screenFetch

Downloads Support Community Development

openSUSE Build Service > Projects > home:yaumulmajid > screenFetch [Sign Up](#) | [Log In](#)

Overview Repositories Revisions Requests Users Advanced

screenFetch

No description set

[Download package](#)

Source Files

Show entries Search:

Filename	Size	Changed	Actions
screenFetch-3.7.0.tar.gz	58.8 KB	6 minutes ago	
screenFetch.spec	2.02 KB	6 minutes ago	

Showing 1 to 2 of 2 entries Previous Next

Latest Revision

Yaumul Majid (yaumulmajid) committed 6 minutes ago (revision 1)
Thu Oct 6 12:44:44 UTC 2016 - yaumulmajid@gmail.com
- First checkin of the screenFetch 3.7.0 package
[Browse Source](#)

Build Results

openSUSE_42.1

i586	succeeded
x86_64	succeeded

Install package home:yaumulmajid / screenFetch

Select Your Operating System



Install using One Click Install (hide)

openSUSE 42.1

Add repository and install manually (hide)

For **openSUSE 42.1** run the following as **root**:

```
zypper addrepo http://download.opensuse.org/repositories/home:yaumulmajid/openSUSE_42.1/home:yaumulmajid.repo  
zypper refresh  
zypper install screenFetch
```

Grab binary packages directly (hide)

- Packages for **openSUSE 42.1**:
- [screenFetch-3.7.0-1.1.noarch.rpm](#)
 - [screenFetch-3.7.0-1.1.src.rpm](#)

Collaborating on Packages

The background features a geometric pattern of large hexagonal shapes. A large teal hexagon is on the left, containing the title. To its right is a green hexagon, and below it is a blue hexagon. These are separated by dark grey lines that form a network of paths, resembling a stylized molecular structure or a network diagram.

Collaborating on Packages

3

- ✓ Branch a package
- ✓ Submit a merge request
- ✓ Review a merge request



Questions?

References

OBS-Packager-Workshop.odp

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

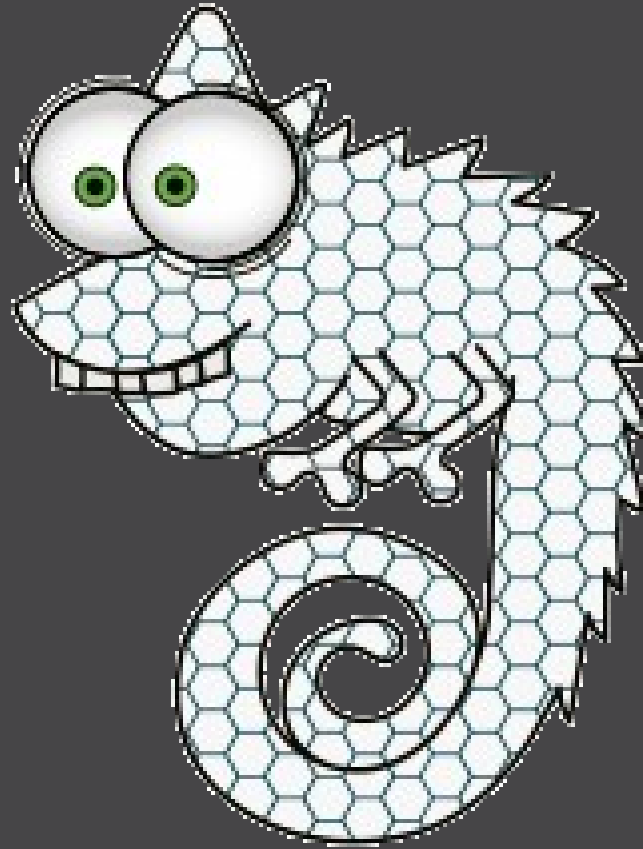
Open Build Service Materials

<http://openbuildservice.org/help/materials>

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*](http://www.opensuse.org)

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Credits

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