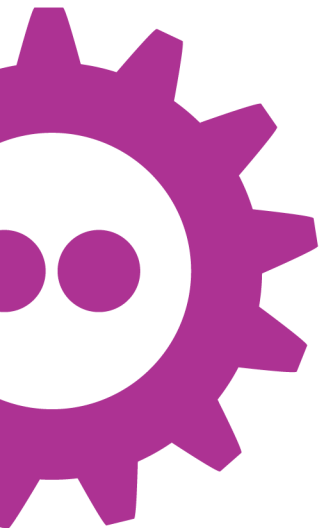




COLLABORA



Open Build Service in Debian

It is impressive how much time
and resources a team can save



李健秋 Andrew Lee

alee@collabora.com

3/Feb/2018

FOSDEM¹⁸



COLLABORA

Andrew Lee 李健秋

Years of experience on RPM packaging.

Debian Developer since 2009.

More than 5 years of experience work in
Build & Infrastructure team in Collabora.

alee@collabora.com





Agenda

- Overview
- Benefits of using OBS
- OBS features and workflow
- The OBS Architecture
- How to setup OBS
- Tips for optimization



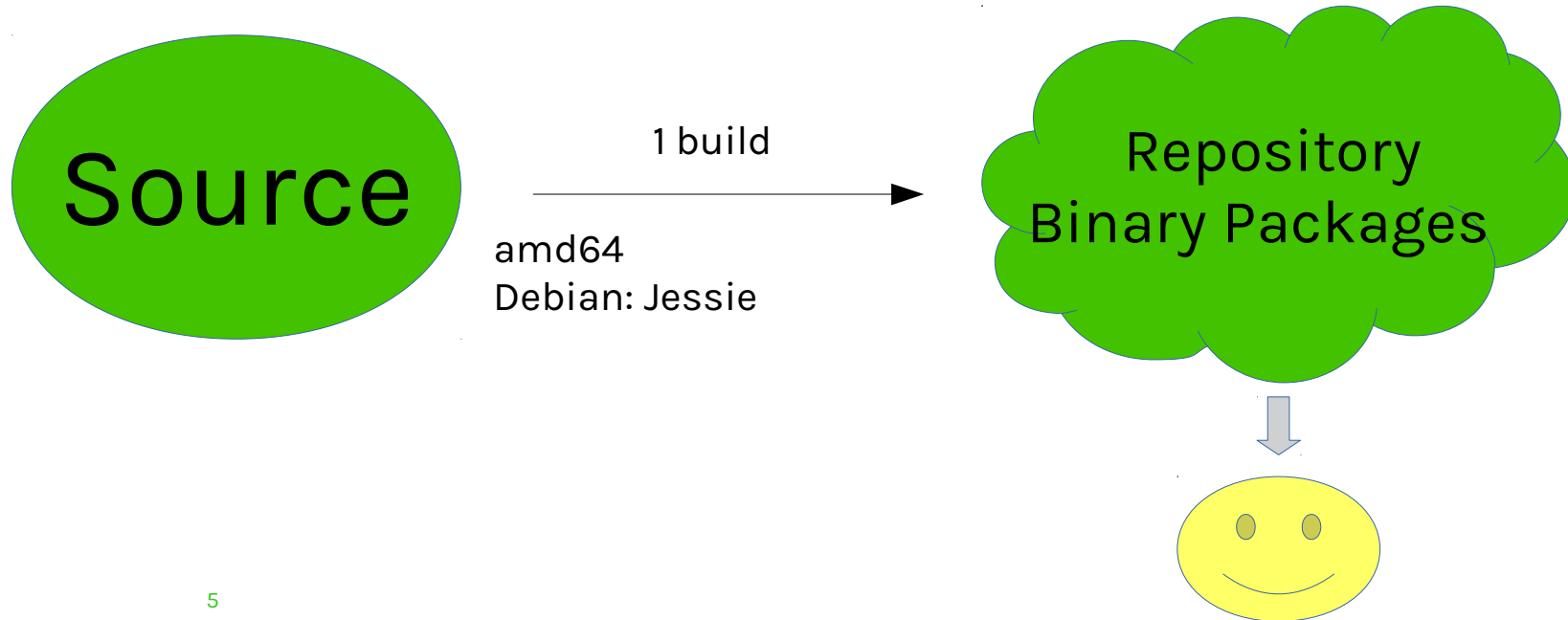
Agenda

- **Overview**
- Benefits of using OBS
- OBS features and workflow
- The OBS Architecture
- How to setup OBS
- Tips for optimization



Overview

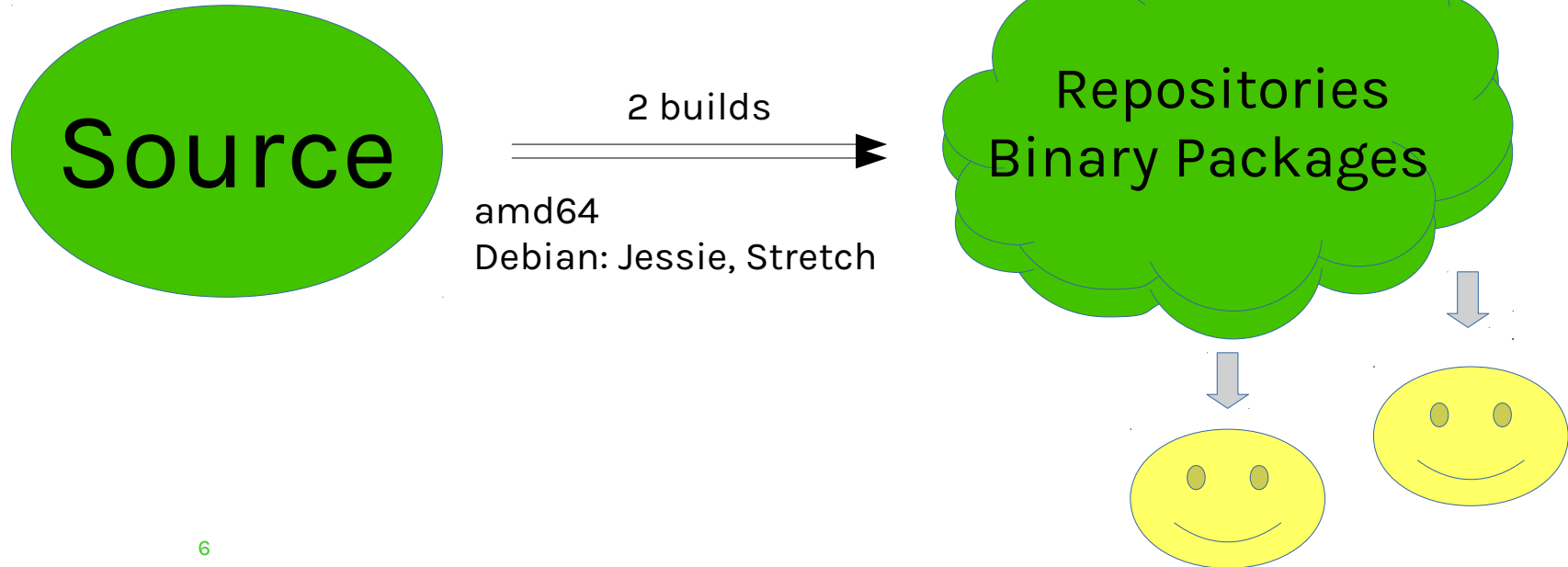
- Classic Packaging





Overview

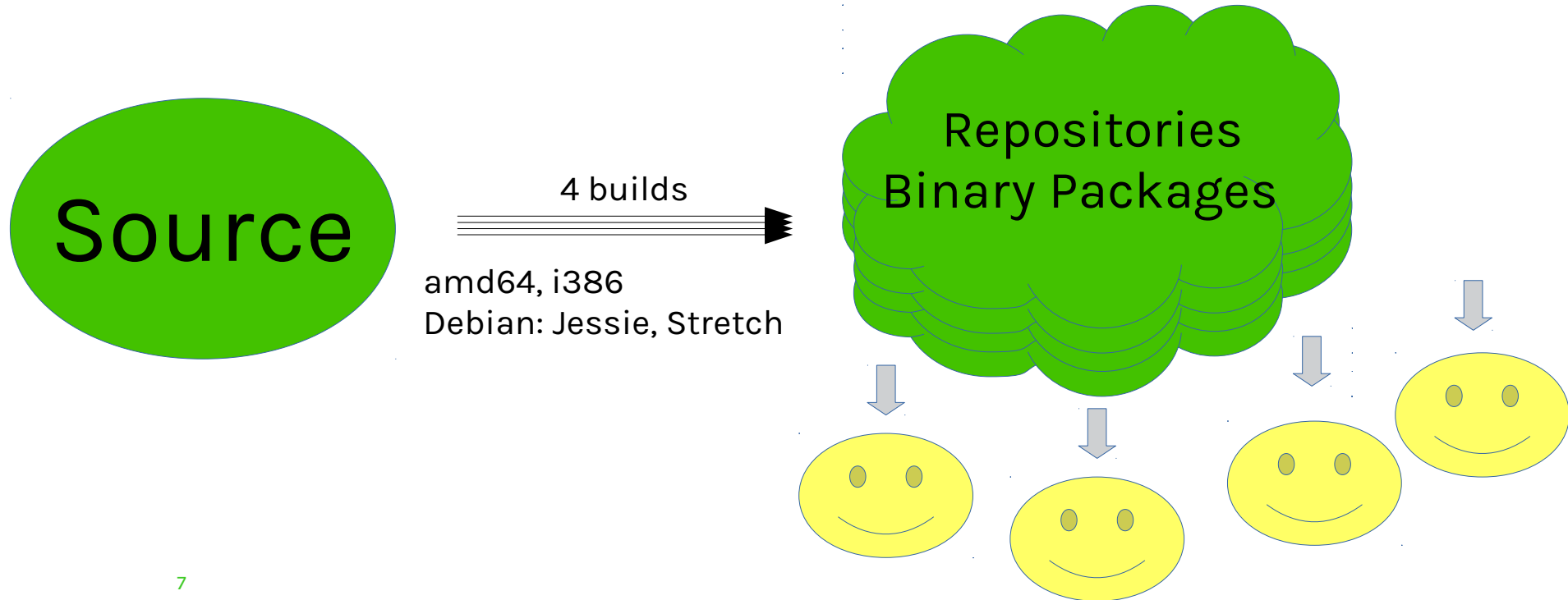
- Classic Packaging





Overview

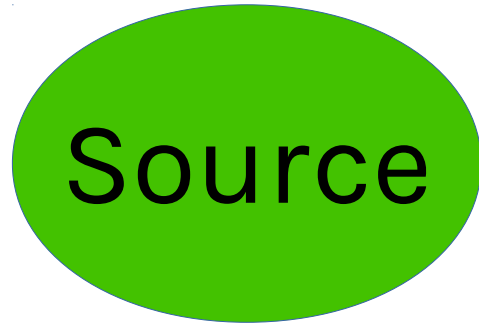
- Classic Packaging





Overview

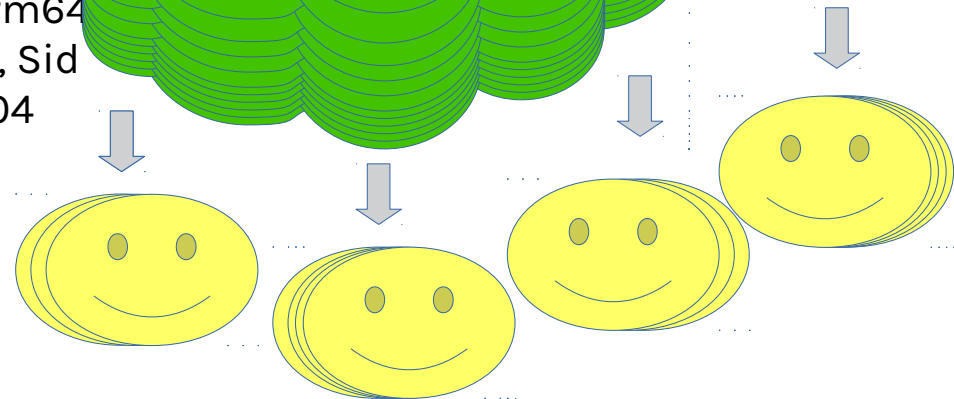
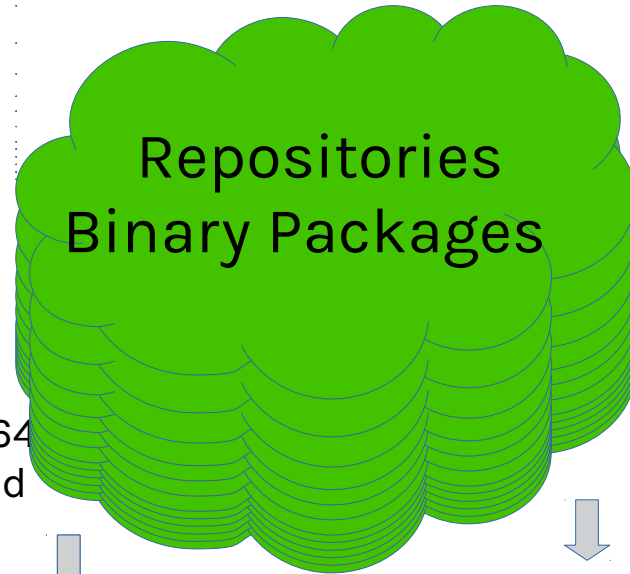
- Classic Packaging



MESS!

How many builds?

Amd64, i386, armhf, arm64
Debian: Jessie, Stretch, Sid
Ubuntu: 16.04, 16.10, 17.04





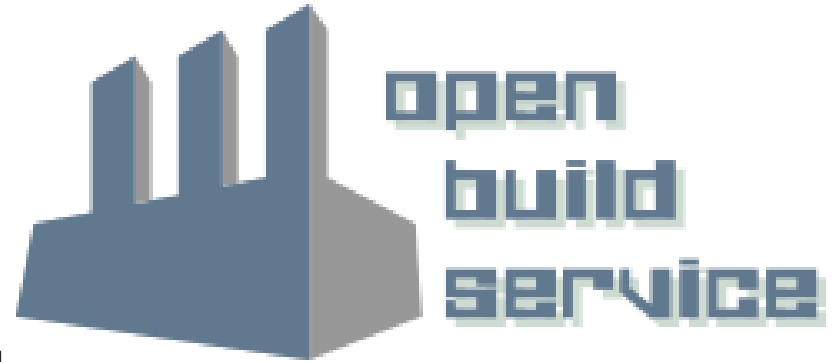
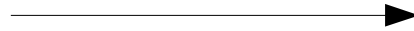
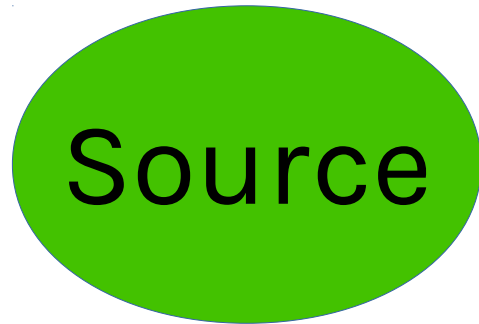
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Let's fix the
mess!

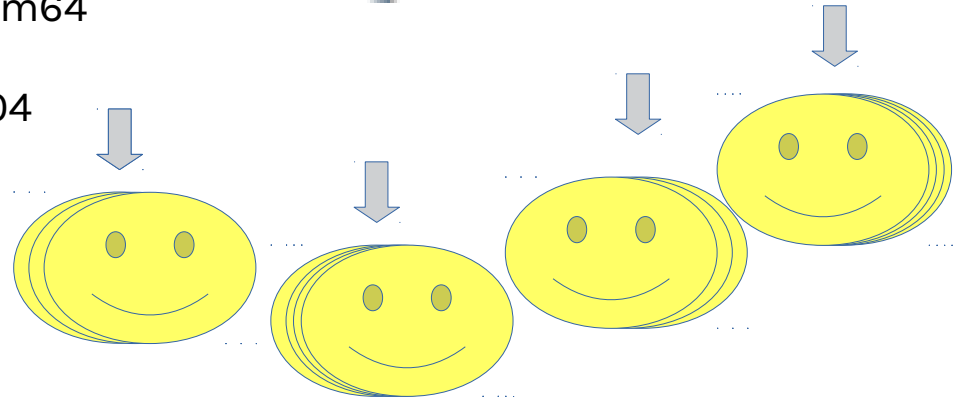


Overview

- Packaging with OBS



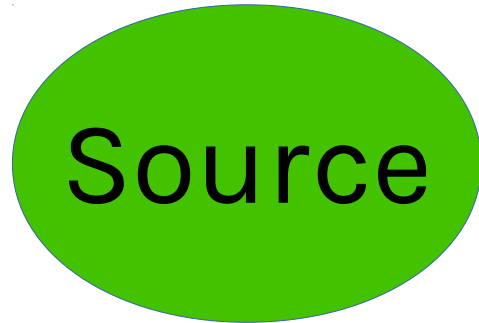
Amd64, i386, armhf, arm64
Debian: Jessie, Stretch
Ubuntu: 16.04, 16.10, 17.04



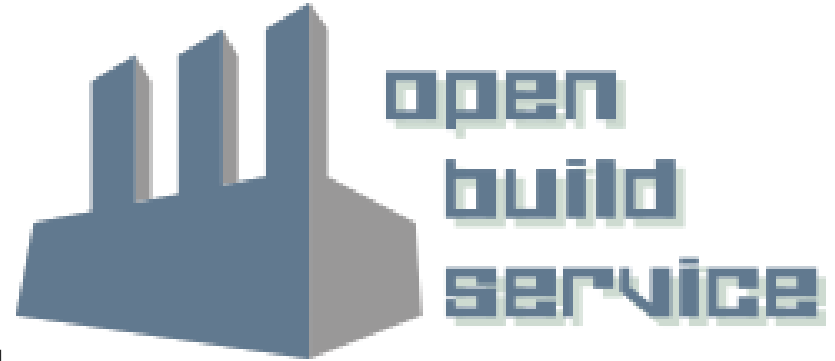


Overview

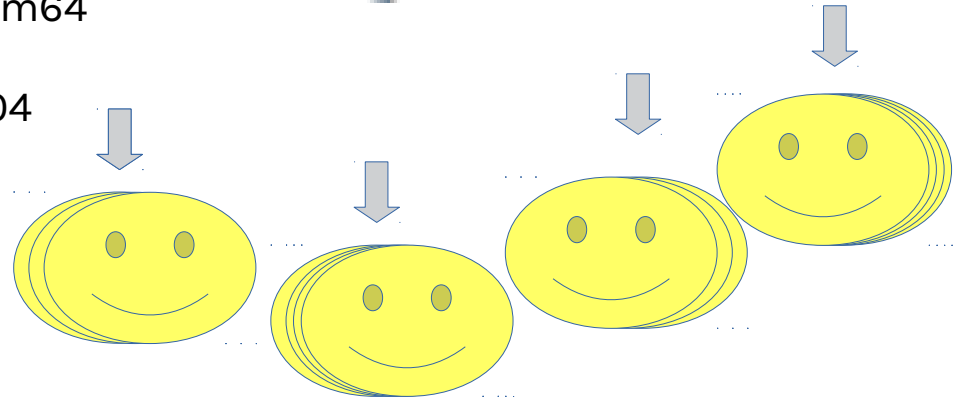
- Packaging with OBS



DONE!



Amd64, i386, armhf, arm64
Debian: Jessie, Stretch
Ubuntu: 16.04, 16.10, 17.04





Agenda

- Overview
- **Benefits of using OBS**
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- Tips for optimization



The Benefit of Using OBS

- For existing and new software projects:
 - One source to multiple distros and archs
 - Automatically published binary repositories
 - Workflow for packaging and releasing needs
- For packagers:
 - Automatic, consistent and reproducible build
- For user:
 - Easy install and keep upgraded via apt-get



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For existing and
new software
projects

One source to multiple
distros and archs.

Screenshot of the Collabora Open Build Service (OBS) interface showing the 'merge-our-misc' project page.

The interface includes a navigation bar with tabs: Overview, Repositories, Revisions, Requests, Users, and Advanced. The 'merge-our-misc' project is selected, showing 5 errors and 1 derived package.

The 'Source Files' section displays a table of files:

Filename	Size	Changed	Actions
._meta	143 Bytes	about 3 years ago	
merge-our-misc_2014.02.19.dsc	906 Bytes	about 3 years ago	
merge-our-misc_2014.02.19.tar.xz	67.7 KB	about 3 years ago	

Showing 1 to 3 of 3 entries. Previous Next

The 'Latest Revision' section is also visible.

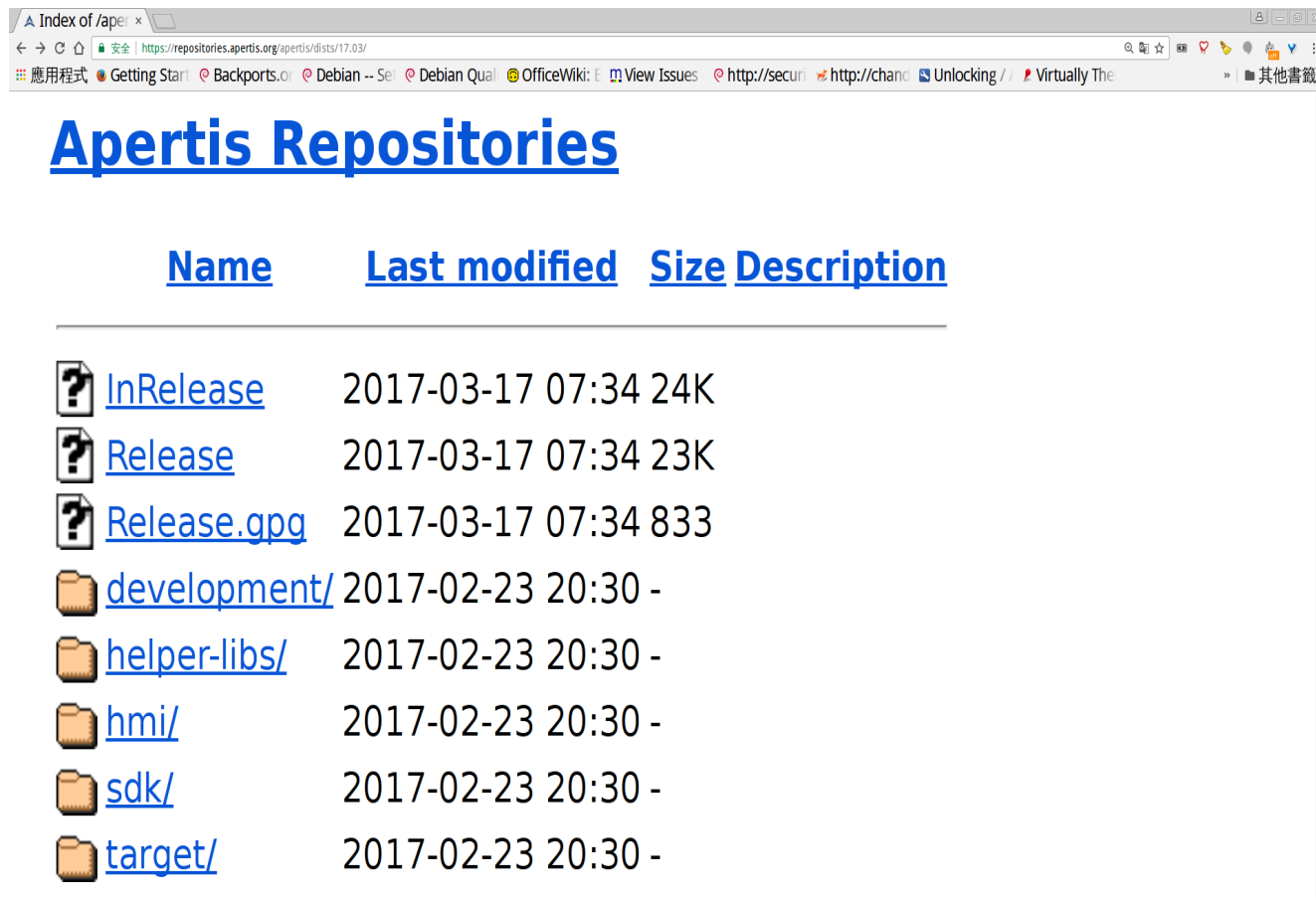
The 'Build Results' section shows the status of builds for various distributions and architectures:









Distribution	Architecture	Status
jessie	armv7hl	succeeded
	i586	succeeded
	x86_64	succeeded
precise	armv7hl	unresolvable
	i586	unresolvable
	x86_64	succeeded
sid	armv7hl	succeeded
	i586	succeeded
	x86_64	succeeded
stretch	armv7hl	succeeded



For existing and
new software
projects

Automatically published
binary repositories.



	Name	Last modified	Size	Description
	InRelease	2017-03-17 07:34	24K	
	Release	2017-03-17 07:34	23K	
	Release.gpg	2017-03-17 07:34	833	
	development/	2017-02-23 20:30	-	
	helper-libs/	2017-02-23 20:30	-	
	hmi/	2017-02-23 20:30	-	
	sdk/	2017-02-23 20:30	-	
	target/	2017-02-23 20:30	-	

For existing and new software projects

Workflow for packaging and releasing needs.

Requests for

[安全](#)
[https://build.collabora.co.uk/project/requests/apertis:16.03:development](#)

[應用程式](#)
[Getting Start](#)
[Backports.o](#)
[Debian -- Se](#)
[Debian Qual](#)
[OfficeWiki: E](#)
[View Issues](#)
[http://secu](#)
[http://chand](#)
[Unlocking /](#)
[Virtually The](#)

[其他書](#)

obs

Watchlis

[Collabora Open Build Service](#) > [Projects](#) > [apertis:16.03:development](#) > [Requests](#)

alee (6)

[Overview](#)
[Repositories](#)
[Monitor](#)
[Requests](#)
[Users](#)
[Subprojects](#)
[Advanced](#)

Requests for apertis:16.03:development

Display

all






















▼

requests in state

new or review

▼

(10):

Created	Source	Requester	Type	State	Priority	
23 days ago	~:branches:apertis:16.03:development / ceph	 merge-o-matic	submit	new	moderate	 
23 days ago	~:branches:apertis:16.03:development / dnsmasq	 merge-o-matic	submit	new	moderate	 
23 days ago	~:branches:apertis:16.03:development / xen	 merge-o-matic	submit	new	moderate	 
23 days ago	~:branches:apertis:16.03:development / libmobiledevice	 merge-o-matic	submit	new	moderate	 
23 days ago	~:branches:apertis:16.03:development / libusbmuxd	 merge-o-matic	submit	new	moderate	 
23 days ago	~:branches:apertis:16.03:development / libgd2	 merge-o-matic	submit	new	moderate	 
23 days ago	~:branches:apertis:16.03:development / dh-python	 merge-o-matic	submit	new	moderate	 



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For existing and
new software
projects

Workflow for packaging
and releasing needs.

Request 16258 x

安全 | <https://build.collabora.co.uk/request/show/16258>

應用程式 | Getting Start | Backports.0 | Debian -- Set | Debian Qual | OfficeWiki: E | View Issues | http://securi | http://chand | Unlocking / / | Virtually The | 其他書籤

obs Watchlist

Collabora Open Build Service > Request 16258 alee (68 tasks) | Home Project | Logout

Overview

Request 16258 (new)

Merge report is available at <https://build.collabora.co.uk/mom/merges/16.03-development/c/ceph/REPORT>

Created by merge-o-matic 23 days ago
In state new

Submit ceph

Submit package [home:merge-o-matic...6.03:development](#) / [ceph](#) (revision 2) to package [apertis:16.03:development](#) / [ceph](#)

		Build Results	Rpmlint Results
Deleted	ceph_0.94.6-0ubuntu0.15.10.1.debian.tar.xz		
Deleted	ceph_0.94.6.orig.tar.gz		
Added	ceph_0.94.7-0ubuntu0.15.10.1.debian.tar.xz		
[+] Changed	ceph_0.94.7-0ubuntu0.15.10.1.dsc		
Added	ceph_0.94.7.orig.tar.gz		

16.03

armv7hl	succeeded
i586	succeeded
x86_64	succeeded

There's nothing to be done right now

Request History

merge-o-matic created request 23 days ago



The Benefit of Using OBS

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 - Automatic, consistent and reproducible build
- For user:
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For Packagers

Automatic, consistent
and reproducible build.

```
https://build.c x
https://build.collabora.co.uk/build/collabora:public:tools/jessie/armv7hl/merge-our-misc/_log
安全 | https://build.collabora.co.uk/build/collabora:public:tools/jessie/armv7hl/merge-our-misc/_log
應用程式 | Getting Start | Backports.O | Debian -- Sel | Debian Qual | OfficeWiki: E | View Issues | http://securi | http://chand | Unlocking / / | Virtually The | 其他書籤

Using debootstrap to preinstall deb based system
Debian architecture: armhf
standard: New 247 kB 201 files 103 MB 40s
Packages done, Starting contents.
dists/obs/Contents-armhf: New 1072 kB 201 files 103 MB 0s
Done. 103 MB in 201 archives. Took 40s
Done generate repos ...
debootstrap --keep-debootstrap-dir --variant=buildd --arch=armhf --
include=dmsetup,libudev1,libdevmapper1.02.1,udev,libcryptsetup4,libcap
2-bin,acl,adduser,systemd,systemd-sysv,libustr-1.0-1,libsemanage-
common,ucf,libxml-sax-base-perl,libpython3.4-
minimal,libmpdec2,libsemanage1,libxml-namespacesupport-perl,libxml-
sax-perl,python3.4-minimal,libpython3.4-stdlib,libpam-modules-
```




The Benefit of Using OBS

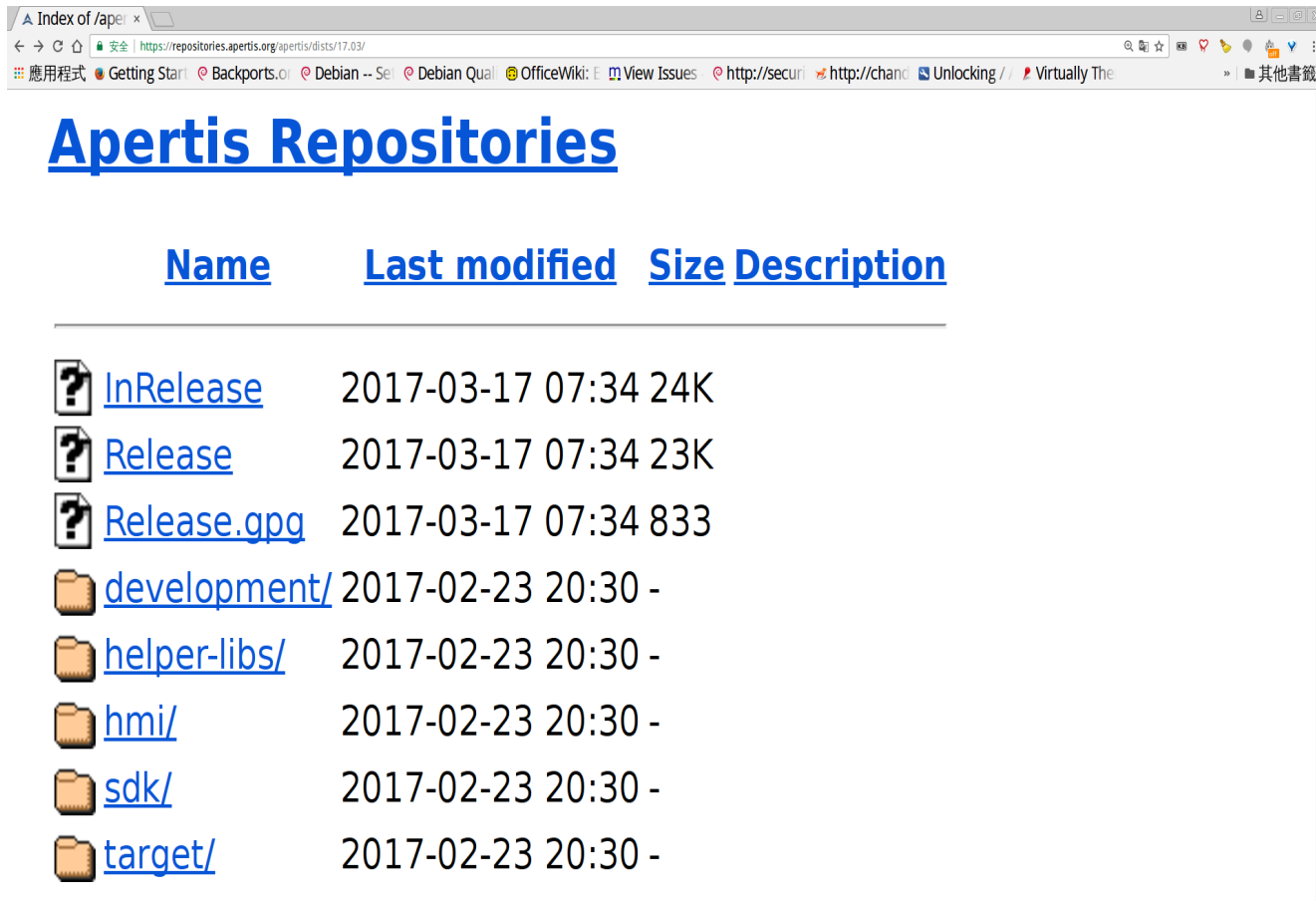
- For existing and new software projects:
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- For packagers:
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- **For user:**
 - Easy install and keep upgraded via apt-get











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For Users

Easy install and keep
Upgrade via apt-get.



The screenshot shows a web browser window with the URL <https://repositories.apertis.org/apertis/dists/17.03/>. The page title is "Index of /apertis/". The main heading is "Apertis Repositories". Below the heading is a table with columns: Name, Last modified, Size, and Description. The table lists several files and directories, including InRelease, Release, Release.gpg, development/, helper-libs/, hmi/, sdk/, and target/.

	<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
	InRelease	2017-03-17 07:34	24K	
	Release	2017-03-17 07:34	23K	
	Release.gpg	2017-03-17 07:34	833	
	development/	2017-02-23 20:30	-	
	helper-libs/	2017-02-23 20:30	-	
	hmi/	2017-02-23 20:30	-	
	sdk/	2017-02-23 20:30	-	
	target/	2017-02-23 20:30	-	



For Users

Add repo to source.list:

```
deb https://repositories.apertis.org/apertis/ 16.12 target development sdk
```

Easy install and keep
Upgrade via apt-get.



Agenda

- Overview
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- **OBS features and workflow**
- The OBS Architecture
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- Tips for optimization



The OBS features and workflow

- Build against multiple distros and archs
- Download on Demand Repositories (DoD)
- Revision control for source package
- Automatic source package processing
- Access control for source repositories
- Request and Review system



The OBS features and workflow

- **Build against multiple distros and archs**
- Download on Demand Repositories (DoD)
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Build on multiple distros
and archs.

Screenshot of the Collabora Open Build Service (OBS) web interface showing the 'merge-our-misc' project page.

The browser address bar shows: <https://build.collabora.co.uk/package/show/collabora:public:tools/merge-our-misc>

The page header includes the OBS logo and a Watchlist section.

The breadcrumb navigation shows: Collabora Open Build Service > Projects > collabora:public:tools > merge-our-misc

The user is logged in as 'alee (68 tasks)' and can access 'Home Project' or 'Logout'.

The main content area has tabs for Overview, Repositories, Revisions, Requests, Users, and Advanced. The 'Overview' tab is selected.

The project name is 'merge-our-misc'. It shows '5 errors' and '1 derived packages'.

Below the project name, there are links: Branch package, Submit package, Edit description, and Delete package.

The 'Source Files' section shows a table of files:

Filename	Size	Changed	Actions
__meta	143 Bytes	about 3 years ago	
merge-our-misc_2014.02.19.dsc	906 Bytes	about 3 years ago	
merge-our-misc_2014.02.19.tar.xz	67.7 KB	about 3 years ago	

Showing 1 to 3 of 3 entries. Previous Next

There is a link to 'Add file'.

The 'Latest Revision' section is partially visible.

The 'Build Results' and 'RpmLint Results' sections show build status for various distributions and architectures:

Distribution	Architecture	Status
jessie	armv7hl	succeeded
	i586	succeeded
	x86_64	succeeded
precise	armv7hl	unresolvable
	i586	unresolvable
	x86_64	succeeded
sid	armv7hl	succeeded
	i586	succeeded
	x86_64	succeeded
stretch	armv7hl	succeeded



The OBS features and workflow

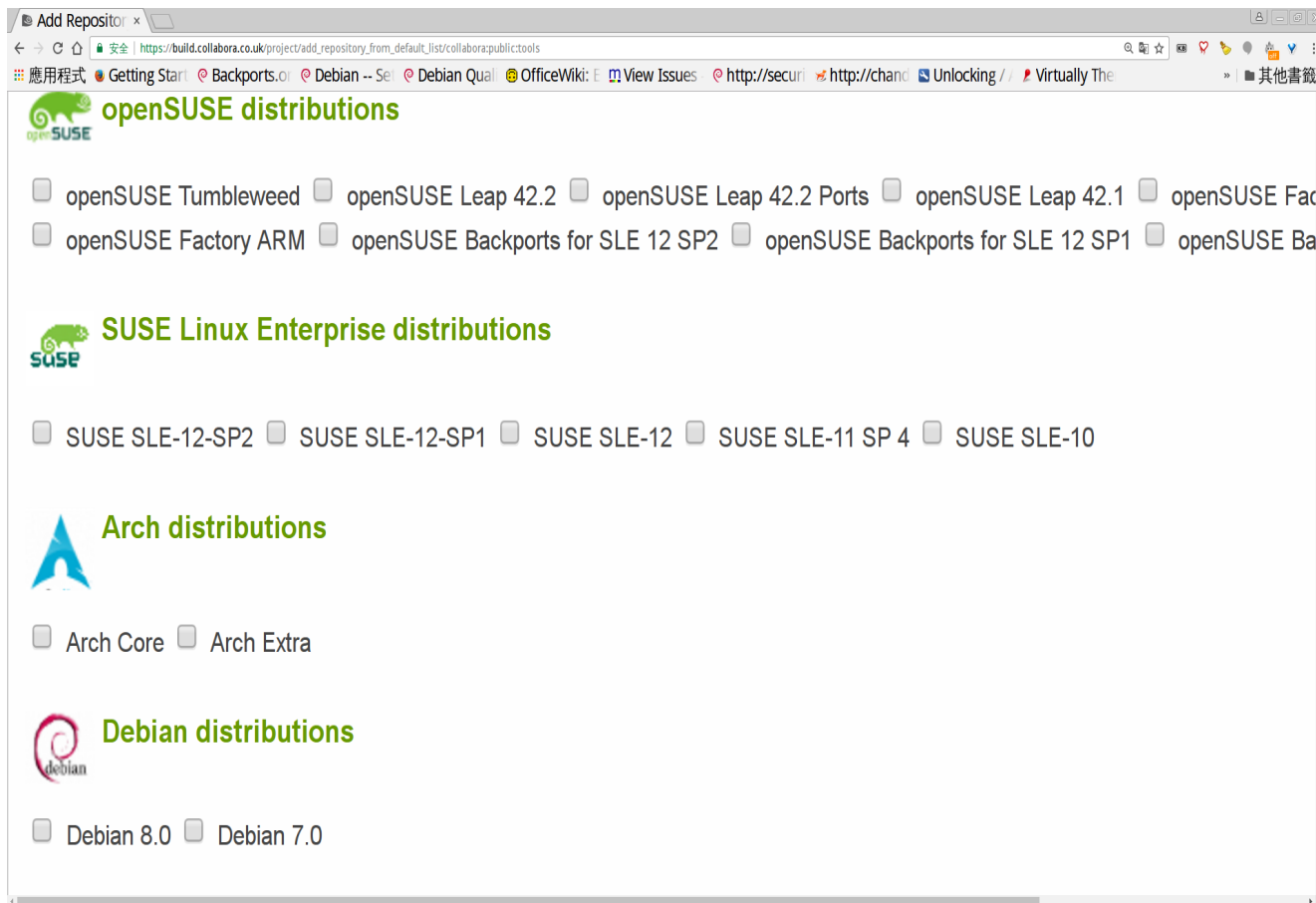
- Build against multiple distros and archs
- **Download on Demand Repositories (DoD)**
- Revision control for source package
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COLLABORA

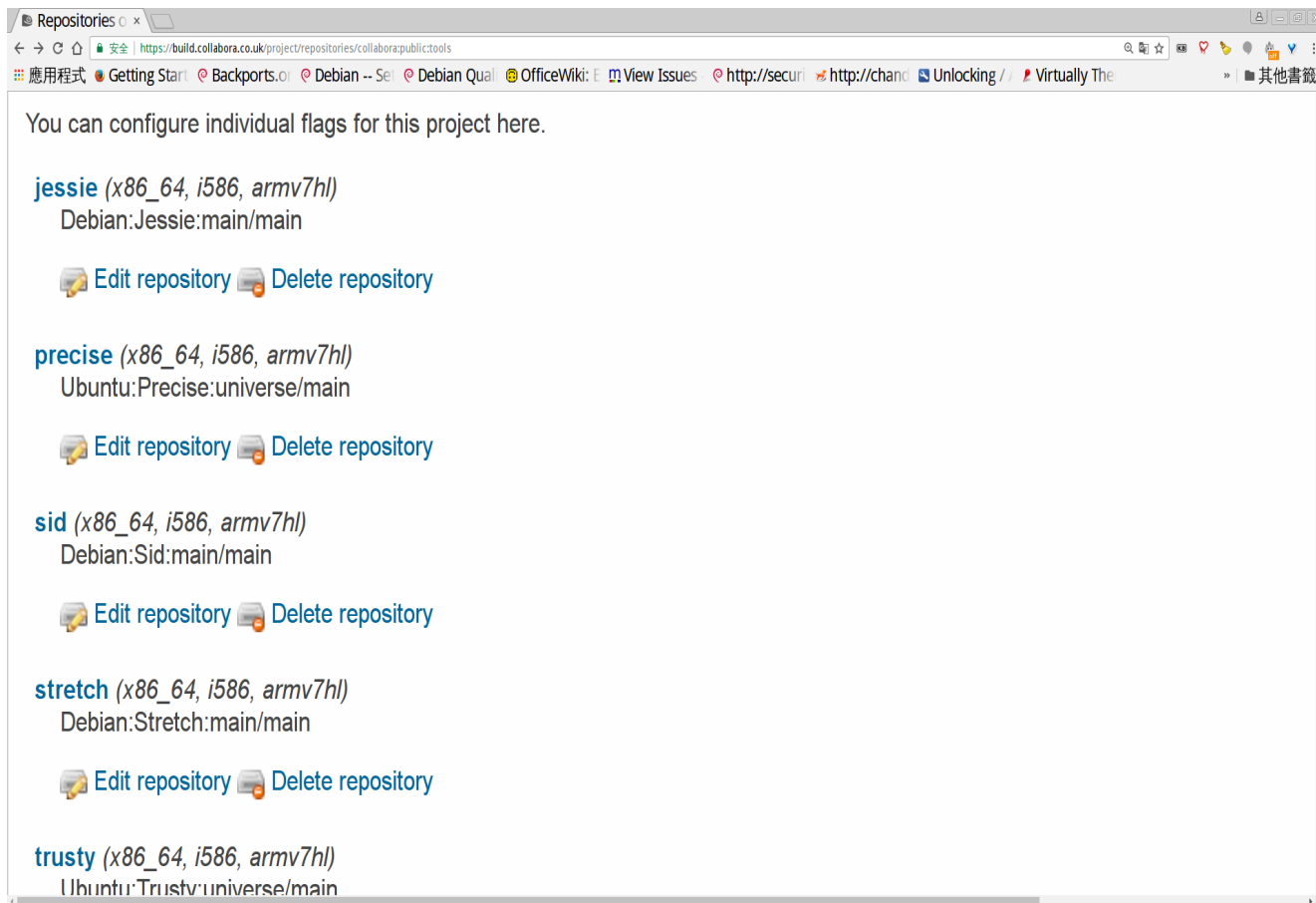


Download on Demand
Repositories (DoD).





Download on Demand
Repositories (DoD).

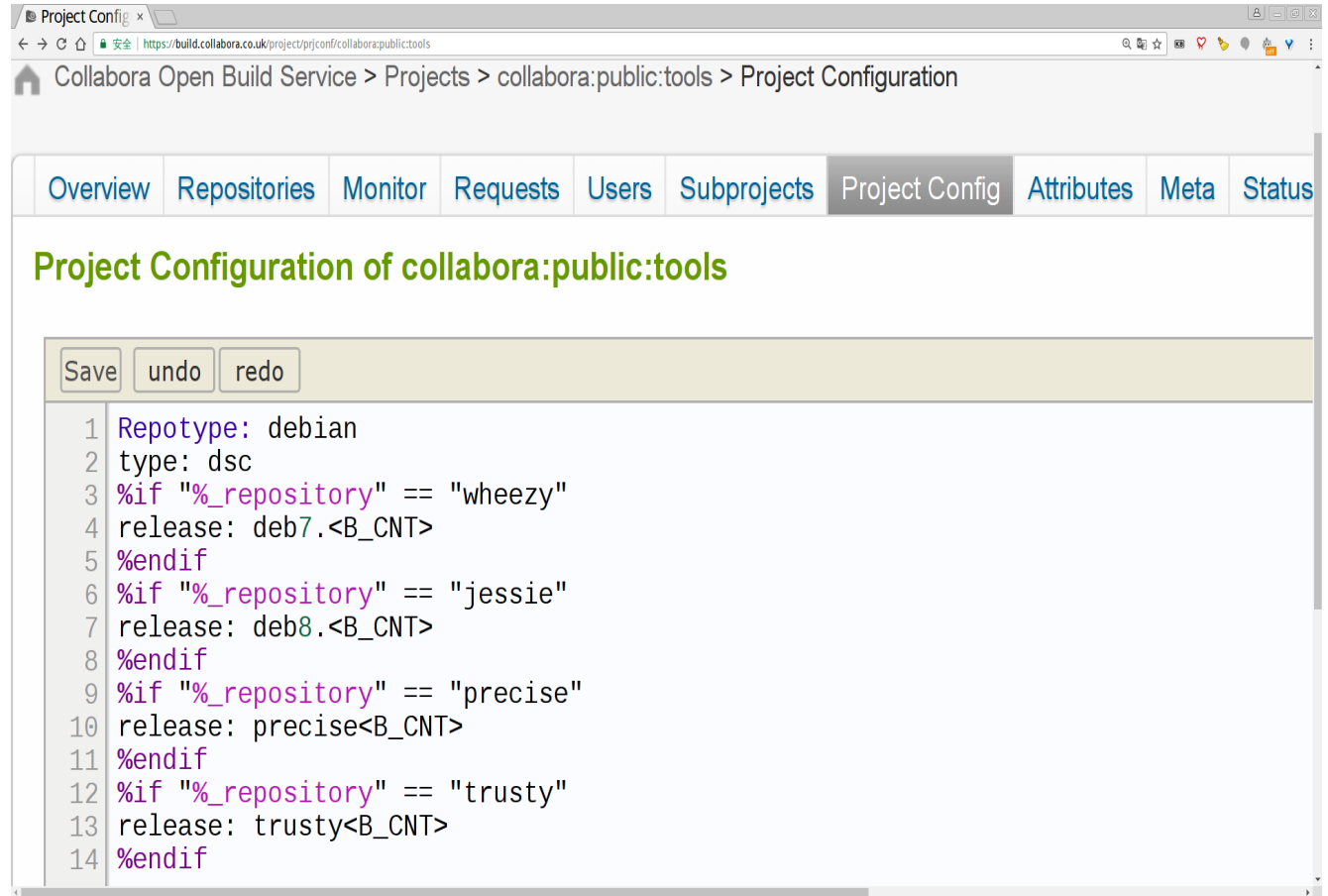




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Download on Demand
Repositories (DoD).





The OBS features and workflow

- Build against multiple distros and archs
- Download on Demand Repositories (DoD)
- **Revision control for source package**
- Automatic source package processing
- Access control for source repositories
- Request and Review system



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Revision control for
source package.

Revision Log

Collabora Open Build Service > Projects > apertis:16.06:target > apertis-target-meta > Revisions

alee (7)

Overview Repositories Revisions Requests Users Advanced

Revision Log of apertis-target-meta (10)

Héctor Orón Martínez (zumbi) committed 9 months ago (revision 10)
apertis-target-meta (0.31) 16.06; urgency=medium
.
* Drop xterm
 Files changed Browse Source

Héctor Orón Martínez (zumbi) committed 10 months ago (revision 9)
apertis-target-meta (0.30) 16.06; urgency=medium
.
* Drop dbus-x11
 Files changed Browse Source

Héctor Orón Martínez (zumbi) committed 10 months ago (revision 8)
apertis-target-meta (0.29) 16.06; urgency=medium
.
* drop xserver-xorg and drivers from metapackage.



The OBS features and workflow

- Build against multiple distros and archs
- Download on Demand Repositories (DoD)
- Revision control for source package
- **Automatic source package processing**
- Access control for source repositories
- Request and Review system



Automatic source package
processing.

Build Results

17.06	aarch64	succeeded: 1329 failed: 3 unresolvable: 1 disabled: 4 excluded: 5
	armv7hl	succeeded: 1333 failed: 1 disabled: 5 excluded: 3
	x86_64	succeeded: 1341 excluded: 1



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Automatic source package
processing.

Project apertis x

← → ↻ 🔒 安全 | https://build.collabora.co.uk/project/monitor/apertis:17.06:development?arch_aarch64=1&defaults=0&repo_17_06=1&unresolvable=1

obs

Collabora Open Build Service > Projects > apertis:17.06:development

build.collabora.co.uk 顯示 :
nothing provides libwebkit-clutter-dev >= 1.11.1+20121121+cbe592f-0co2bc1

確定

Status Monitor

Overview Repositories **Monitor** Requests Users Subprojects Advanced

Filter: Status ▾ Packagename: Repository ▾ Architecture ▾ Last time results: ☐

17.06

aarch64

chaiwala-apparmor-tests unresolvable

Updated at: 2017-03-17 13:04:46+00:00

Legend

https://build.collabora.co.uk/project/monitor/apertis:17.06:development?arch_aarch64=1&defaults=0&repo_17_06=1&unresolvable=1# build further packages



Automatic source package
processing.

build.collabora.co.uk 顯示：

x

```
nothing provides libwebkit-clutter-dev >=
1.11.1+20121121+cbe592f-0co2bc1
```

☐ 防止此網頁產生其他對話方塊。

確定



COLLABORA



Automatic source package
processing.

Project apertis x

← → 🔍 安全 | https://build.collabora.co.uk/project/monitor/apertis:17.06:development?arch_aarch64=1&defaults=0&repo_17_06=1&succeeded=1

obs

Collabora Open Build Service > Projects > apertis:17.06:development > Status Monitor

Overview Repositories **Monitor** Requests Users Subprojects Advanced

Filter: Status ▾ Packagename: Repository ▾ Architecture ▾ Last time results: ☐

17.06	
	aarch64
acpica-unix	succeeded
advancecomp	succeeded
alabaster	succeeded
alsa-driver	succeeded
alsa-utils	succeeded



COLLABORA



Automatic source package
processing.

Project apertis x

← → 🔍 安全 | https://build.collabora.co.uk/project/monitor/apertis:17.06:development?arch_aarch64=1&defaults=0&failed=1&repo_17_06=1

obs

Collabora Open Build Service > Projects > apertis:17.06:development > Status Monitor

Overview Repositories **Monitor** Requests Users Subprojects Advanced

Filter: Status ▾ Packagename: Repository ▾ Architecture ▾ Last time results:

17.06	
aarch64	
apertis-development-meta	failed
apertis-hmi-development-meta	failed
libwpg	failed

Updated at: 2017-03-17 13:00:15+00:00



The OBS features and workflow

- Build against multiple distros and archs
- Download on Demand Repositories (DoD)
- Revision control for source package
- Automatic source package processing
- **Access control for source repositories**
- Request and Review system



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OBS features and workflow

Access control for
Source repositories.

Users of apert

Overview Repositories Monitor Requests **Users** Subprojects Advanced

User Roles

Search:

Username	Maintainer	Bugowner	Reviewer	Downloader	Reader	
Alban Créquy (alban)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Alvaro Soliver (asoliver)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Andrew Lee (alee)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Andrew Shadura (andrewsh)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
André Magalhães (andrunko)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Arun Raghavan (arun)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Daniel Stone (daniels)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Derek Foreman (derek)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Dilip Balaraju (dilip)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
George Kiagiadakis (gkiagia)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Gustavo Noronha (kov)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Guy Lunardi (guy)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Herman Ho (herman)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Héctor Orón Martínez (zumbi)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	



The OBS features and workflow

- Build against multiple distros and archs
- Download on Demand Repositories (DoD)
- Revision control for source package
- Automatic source package processing
- Access control for source repositories
- **Request and Review system**



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OBS features and workflow

Request and Review
system.

Home of alee x

安全 | <https://build.collabora.co.uk/user/show/alee>

Incoming Reviews

Show 25 entries

Search:

Created	Source	Target	Requester	Type	Priority	
23 days ago	~:branches:apertis:17.03:target / linux	apertis:17.03:target	merge-o-matic	submit	moderate	
23 days ago	~:branches:ape...:17.03:target / linux-meta	apertis:17.03:target	merge-o-matic	submit	moderate	
23 days ago	~:branches:apert...:17.03:development / spice	apertis:17.03:development	merge-o-matic	submit	moderate	
23 days ago	~:branches:aper...:17.03:development / libvirt	apertis:17.03:development	merge-o-matic	submit	moderate	
23 days ago	~:branches:apertis:17.03:target / bind9	apertis:17.03:target	merge-o-matic	submit	moderate	
23 days ago	~:branches:apert...:17.03:development / libgc	apertis:17.03:development	merge-o-matic	submit	moderate	
23 days ago	~:branches:a...:17.03:target / linux-firmware	apertis:17.03:target	merge-o-matic	submit	moderate	
23 days ago	~:branches:a...:development / console-setup	apertis:17.03:development	merge-o-matic	submit	moderate	
23 days ago	~:branches:apertis:17.03:target / klibc	apertis:17.03:target	merge-o-matic	submit	moderate	
23 days ago	~:branches:apertis:17.03:target / libdrm	apertis:17.03:target	merge-o-matic	submit	moderate	
23 days ago	~:branches:apertis:17.03:sdk / firefox	apertis:17.03:sdk	merge-o-matic	submit	moderate	
23 days ago	~:branches:apertis:17.03:target / nettle	apertis:17.03:target	merge-o-matic	submit	moderate	
23 days ago	~:branches:apertis:17.03:development / ceph	apertis:17.03:development	merge-o-matic	submit	moderate	
23 days ago	~:branches:apertis:17.03:target / krb5	apertis:17.03:target	merge-o-matic	submit	moderate	
23 days ago	~:branches:apertis:17.03:sdk / gcc-5-cross	apertis:17.03:sdk	merge-o-matic	submit	moderate	



COLLABORA



Request and Review
system.

Request 3561 x

安全 | <https://build.collabora.co.uk/request/show/3561>

obs Watchlist

Collabora Open Build Service > Request 3561 alee (70 tasks) | Home Project | Logout

Overview

Request 3561 (accepted)

libcommons-validator-java (1:1.5.0-1co1) 17.03; urgency=medium

* debian/{control,rules}: force build with openjdk-8. (Apertis: T3461)

-- Andrew Lee (李健秋) <andrew.lee@collabora.co.uk> Fri, 10 Mar 2017 16:39:28 +0800

Created by alee 4 days ago

In state **accepted**

- Open review for Admin
- Open review for sjoerd
- Open review for zumbi
- Open review for andrewsh

Submit libcommons-validator-java

Submit package **home:alee...7.03:sdk** / libcommon...tor-java to package **apertis:17.03:sdk** / libcommons...dator-java

	Deleted	libcommons-validator-java_1.5.0-1.debian.tar.xz	
[+]	Deleted	libcommons-validator-java_1.5.0-1.dsc	^
	Added	libcommons-validator-java_1.5.0-1co1.debian.tar.xz	^
[+]	Added	libcommons-validator-java_1.5.0-1co1.dsc	^

Build Results Rpmlint Results

No build results available

Review for alee

Request History

alee	created request	4 days ago
------	-----------------	------------



Request and Review
system.

Request 3561 x

安全 | <https://build.collabora.co.uk/request/show/3561>

[+] Added [libcommons-validator-java_1.5.0-1co1.dsc](#)

Review for alee

Please comment on your decision

Approve Disregard

Request History

alee	created request	4 days ago
libcommons-validator-java (1:1.5.0-1co1) 17.03; [+]		
andrewsh	Request got accepted	4 days ago

Comments for request 3561 (0)

Add a new comment (markdown markup supported)

Add comment

alee:

- Your Profile
- Home Project
- Logout

Help

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

Contact

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

Open Build Service (OBS) is an openSUSE project.



Agenda

- Overview
- Benefits of using OBS
- OBS features and workflow
- **The OBS Architecture**
- How to setup OBS
- Tips for optimization

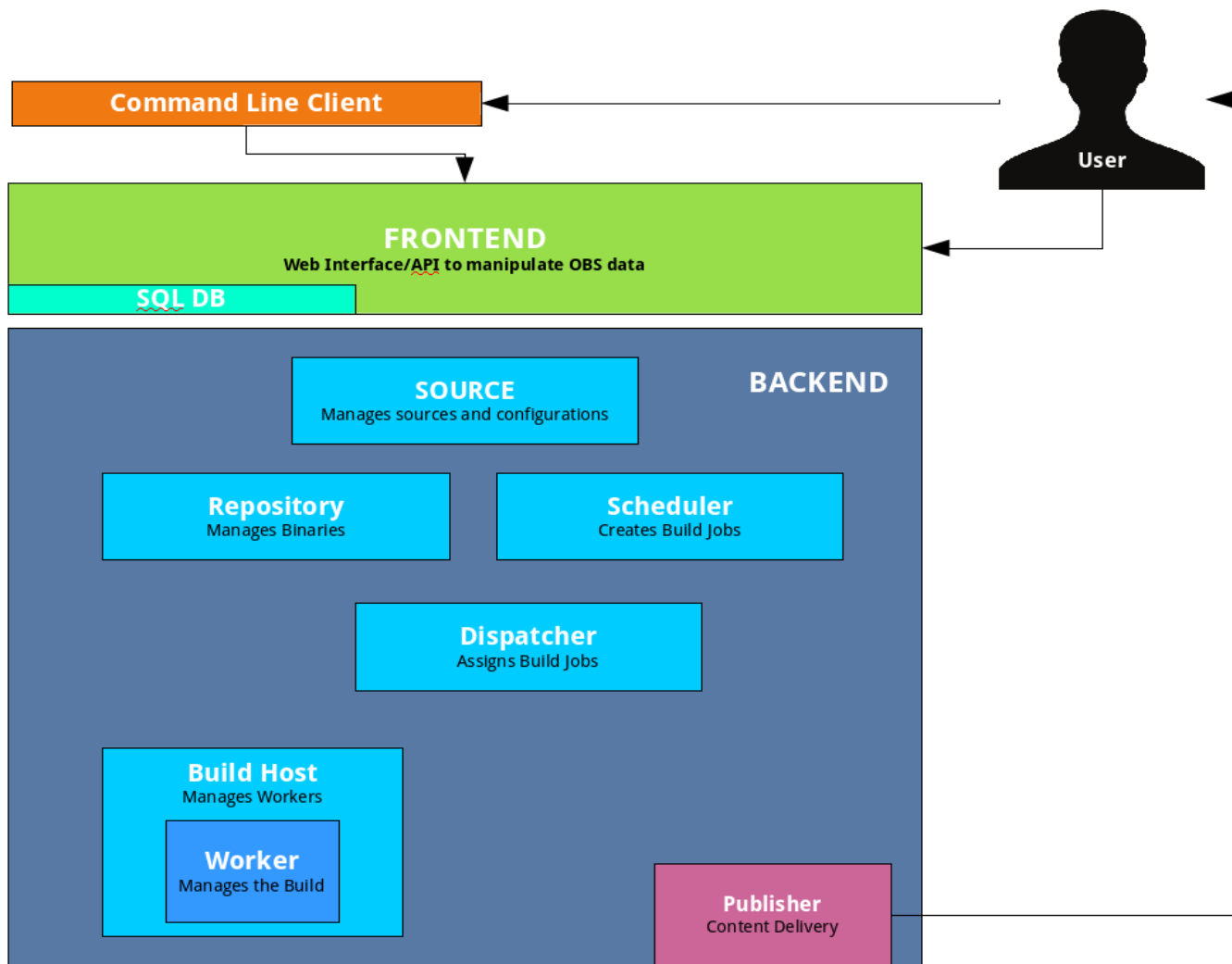


The OBS Architecture

- Backend Services
 - obs-server
 - obs-worker
- Frontend Ruby Rails App
 - obs-api
- Command line tools
 - osc
 - osc-dput-plugin



The OBS Architecture





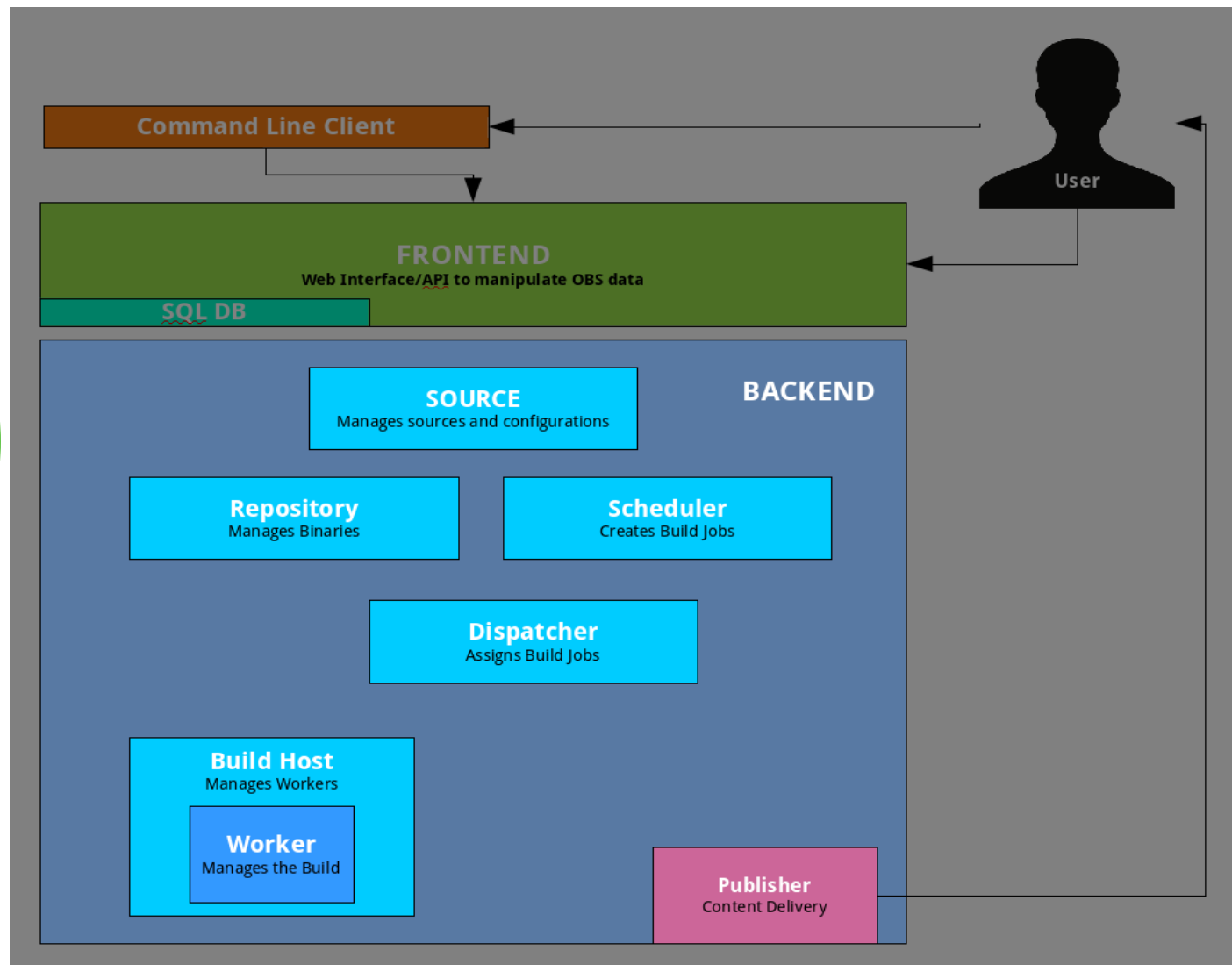
The OBS Architecture

- **Backend Services**
 - obs-server
 - obs-worker
- **Frontend Ruby Rails App**
 - obs-api
- **Command line tools**
 - osc
 - osc-dput-plugin



The OBS Architecture

Backend Services.



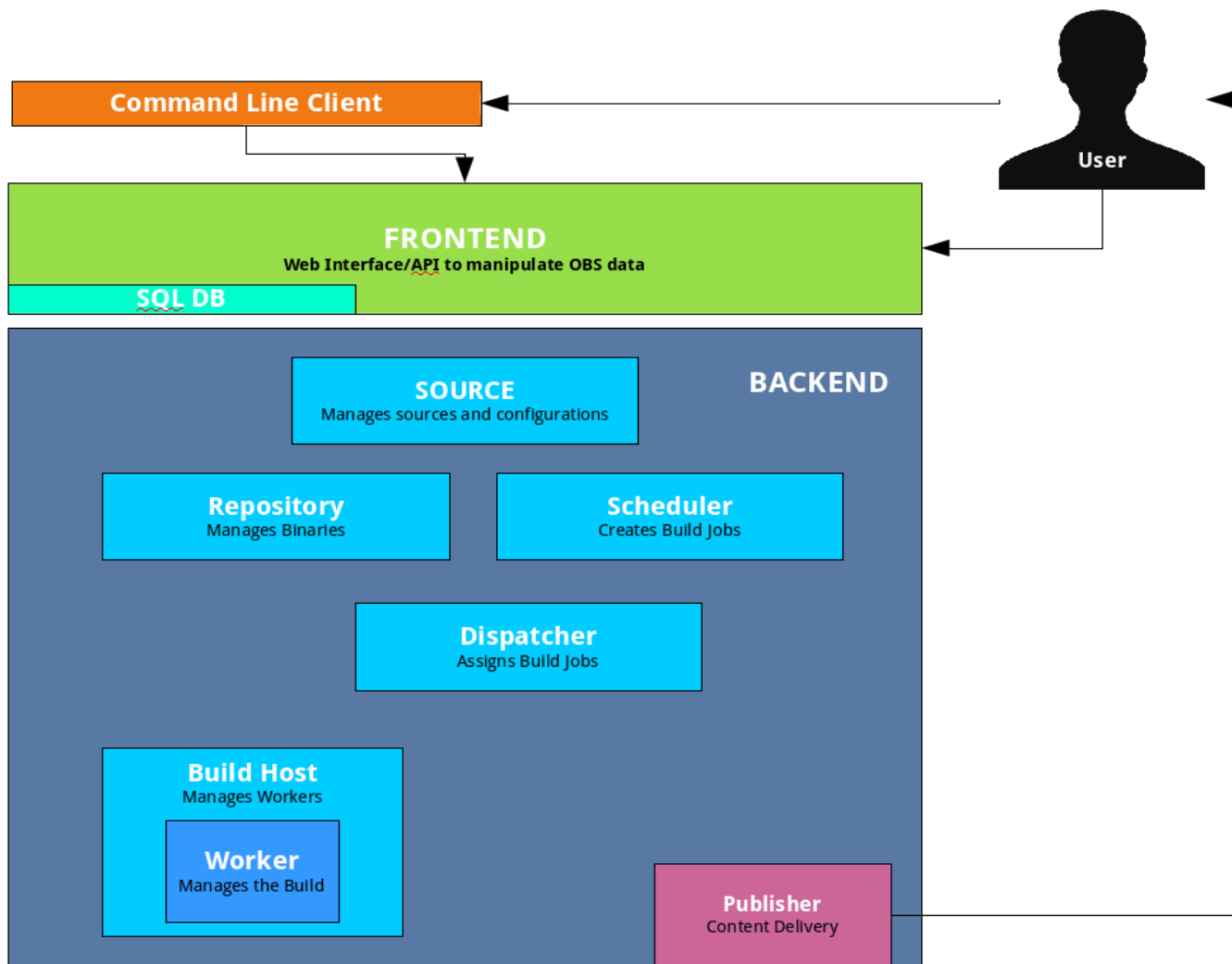


The OBS Architecture

- Backend Services
 - obs-server
 - obs-worker
- **Frontend Ruby Rails App**
 - obs-api
- Command line tools
 - osc
 - osc-dput-plugin



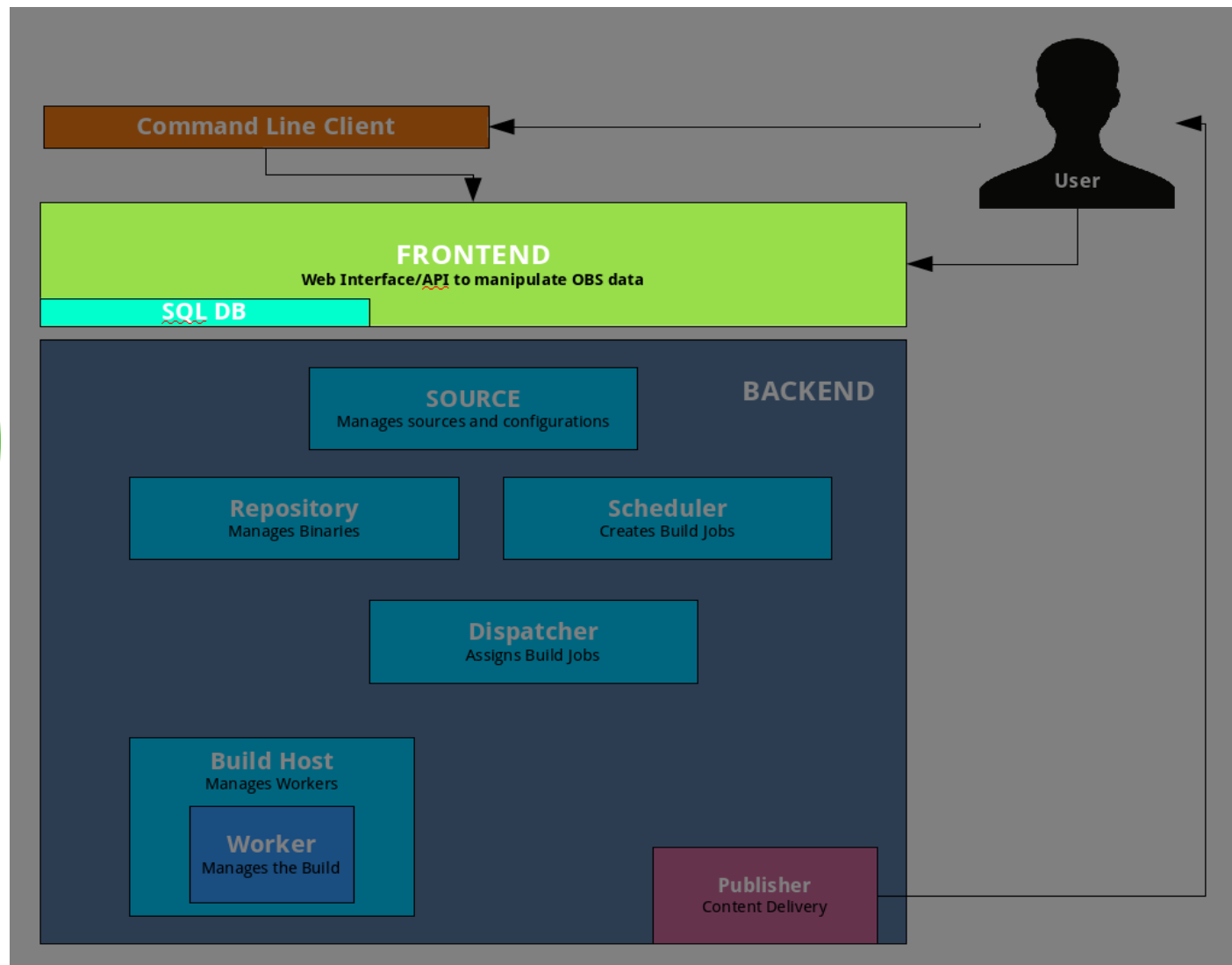
The OBS Architecture





The OBS Architecture

Frontend Ruby Rails App.



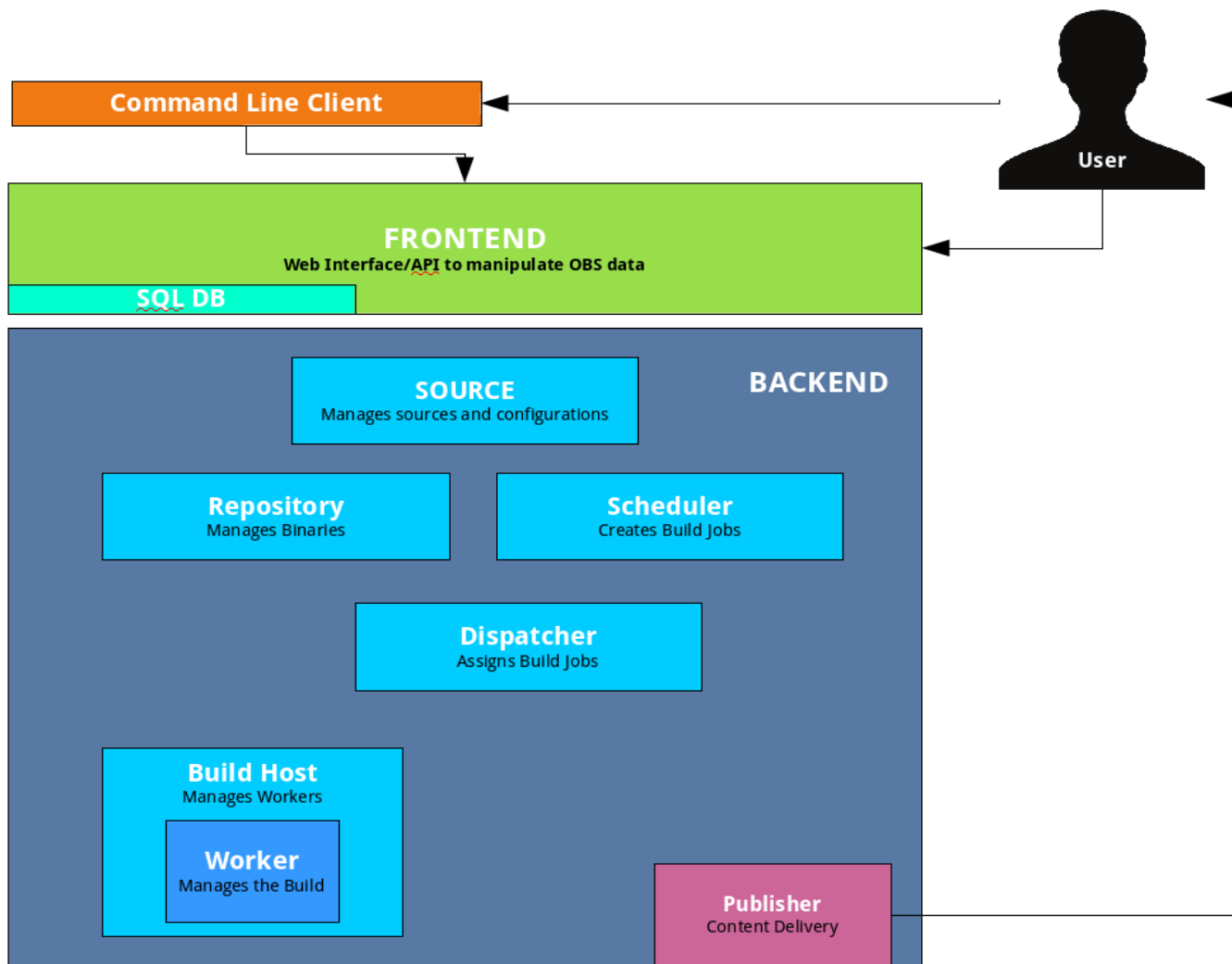


The OBS Architecture

- Backend Services
 - obs-server
 - obs-worker
- Frontend Ruby Rails App
 - obs-api
- **Command line tools**
 - osc
 - osc-dput-plugin



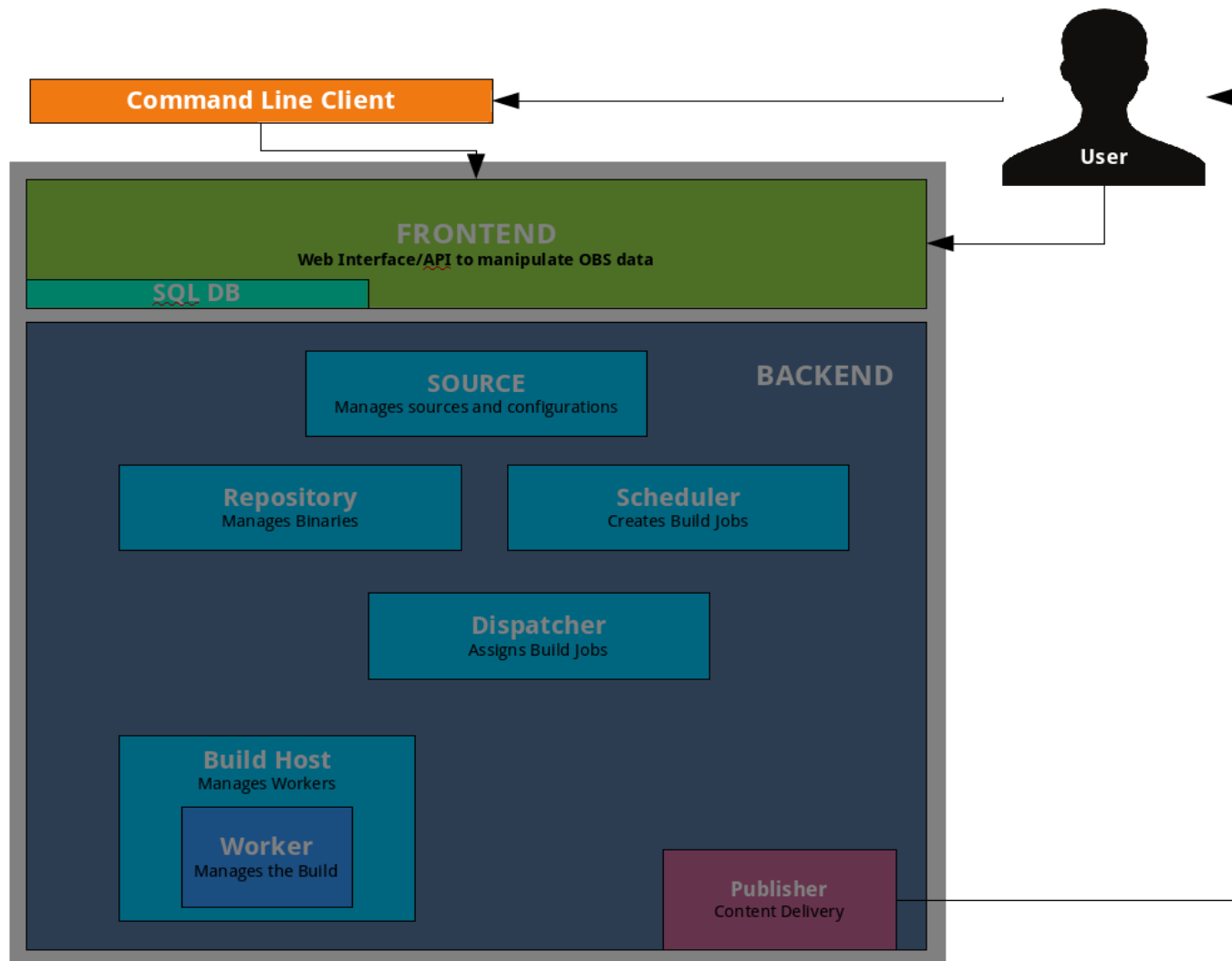
The OBS Architecture





The OBS Architecture

Command line tools:
osc and osc-dput-plugin





Let's look at an
example.



The OBS Architecture

Command line tools:
osc and osc-dput-plugin

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
alee@octopus:/tmp$ osc co home:alee:obs-debian hello
A    home:alee:obs-debian
A    home:alee:obs-debian/hello
A    home:alee:obs-debian/hello/_meta
A    home:alee:obs-debian/hello/hello_2.9-2+deb8u1.debian.tar.xz
A    home:alee:obs-debian/hello/hello_2.9-2+deb8u1.dsc
A    home:alee:obs-debian/hello/hello_2.9.orig.tar.gz
At revision 6.
alee@octopus:/tmp$
```



The OBS Architecture

Command line tools:
osc and osc-dput-plugin

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
alee@octopus:/tmp$ osc co home:alee:obs-debian hello
A    home:alee:obs-debian
A    home:alee:obs-debian/hello
A    home:alee:obs-debian/hello/_meta
A    home:alee:obs-debian/hello/hello_2.9-2+deb8u1.debian.tar.xz
A    home:alee:obs-debian/hello/hello_2.9-2+deb8u1.dsc
A    home:alee:obs-debian/hello/hello_2.9.orig.tar.gz
At revision 6.
alee@octopus:/tmp$ cd home:alee:obs-debian/hello
alee@octopus:/tmp/home:alee:obs-debian/hello$
```



The OBS Architecture

Command line tools:
osc and osc-dput-plugin

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
alee@octopus:/tmp$ osc co home:alee:obs-debian hello
A   home:alee:obs-debian
A   home:alee:obs-debian/hello
A   home:alee:obs-debian/hello/_meta
A   home:alee:obs-debian/hello/hello_2.9-2+deb8u1.debian.tar.xz
A   home:alee:obs-debian/hello/hello_2.9-2+deb8u1.dsc
A   home:alee:obs-debian/hello/hello_2.9.orig.tar.gz
At revision 6.
alee@octopus:/tmp$ cd home:alee:obs-debian/hello
alee@octopus:/tmp/home:alee:obs-debian/hello$ ls
hello_2.9-2+deb8u1.debian.tar.xz  hello_2.9.orig.tar.gz
hello_2.9-2+deb8u1.dsc            _meta
alee@octopus:/tmp/home:alee:obs-debian/hello$
```




The OBS Architecture

Command line tools:
osc and osc-dput-plugin

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
alee@octopus:/tmp$ osc co home:alee:obs-debian hello
A   home:alee:obs-debian
A   home:alee:obs-debian/hello
A   home:alee:obs-debian/hello/_meta
A   home:alee:obs-debian/hello/hello_2.9-2+deb8u1.debian.tar.xz
A   home:alee:obs-debian/hello/hello_2.9-2+deb8u1.dsc
A   home:alee:obs-debian/hello/hello_2.9.orig.tar.gz
At revision 6.
alee@octopus:/tmp$ cd home:alee:obs-debian/hello
alee@octopus:/tmp/home:alee:obs-debian/hello$ ls
hello_2.9-2+deb8u1.debian.tar.xz  hello_2.9.orig.tar.gz
hello_2.9-2+deb8u1.dsc            _meta
alee@octopus:/tmp/home:alee:obs-debian/hello$ dpkg-source -x hello_2.9-2+
deb8u1.dsc
dpkg-source: info: extracting hello in hello-2.9
dpkg-source: info: unpacking hello_2.9.orig.tar.gz
dpkg-source: info: unpacking hello_2.9-2+deb8u1.debian.tar.xz
dpkg-source: info: applying 01-fix-i18n-of-default-message
dpkg-source: info: applying 99-config-guess-config-sub
alee@octopus:/tmp/home:alee:obs-debian/hello$ █
```



COLLABORA

The OBS Architecture

Command line tools:
osc and osc-dput-plugin

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
alee@octopus:/tmp/home:alee:obs-debian/hello$ ls  
hello-2.9                                hello_2.9-2+deb8u1.dsc  _meta  
hello_2.9-2+deb8u1.debian.tar.xz  hello_2.9.orig.tar.gz  
alee@octopus:/tmp/home:alee:obs-debian/hello$
```



The OBS Architecture

Command line tools:
osc and osc-dput-plugin

```
alee@octopus:/tmp/home:alee:obs-debian/hello$ ls
hello-2.9                                hello_2.9-2+deb8u1.dsc  _meta
hello_2.9-2+deb8u1.debian.tar.xz  hello_2.9.orig.tar.gz
alee@octopus:/tmp/home:alee:obs-debian/hello$ cd hello-2.9/
alee@octopus:/tmp/home:alee:obs-debian/hello/hello-2.9$
```



The OBS Architecture

Command line tools:
osc and osc-dput-plugin

```
alee@octopus:/tmp/home:alee:obs-debian/hello$ ls
hello-2.9                                hello_2.9-2+deb8u1.dsc  _meta
hello_2.9-2+deb8u1.debian.tar.xz  hello_2.9.orig.tar.gz
alee@octopus:/tmp/home:alee:obs-debian/hello$ cd hello-2.9/
alee@octopus:/tmp/home:alee:obs-debian/hello/hello-2.9$ ls
ABOUT-NLS      config.in      doc            Makefile.am    README-dev
aclocal.m4      configure     GNUmakefile   Makefile.in    README-release
AUTHORS         configure.ac  INSTALL       man            src
build-aux       contrib       lib           NEWS           tests
ChangeLog       COPYING       m4            po             THANKS
ChangeLog.0     debian       maint.mk     README         TODO
alee@octopus:/tmp/home:alee:obs-debian/hello/hello-2.9$
```



The OBS Architecture

Modify your package as usual.
Update changelog as usual for a new revision.

And then generate source package:
`$ dpkg-buildpackage -S -us -uc -d`

Command line tools:
osc and osc-dput-plugin



The OBS Architecture

Command line tools:
osc and osc-dput-plugin

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
alee@octopus:/tmp/home:alee:obs-debian/hello$ ls
hello-2.9                                hello_2.9-2+deb8u1.debian.tar.xz
hello_2.9-2+deb8u1co1.debian.tar.xz    hello_2.9-2+deb8u1.dsc
hello_2.9-2+deb8u1co1.dsc               hello_2.9.orig.tar.gz
hello_2.9-2+deb8u1co1_source.changes    _meta
alee@octopus:/tmp/home:alee:obs-debian/hello$
```



The OBS Architecture

Command line tools:
osc and osc-dput-plugin

```
檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)
alee@octopus:/tmp/home:alee:obs-debian/hello$ ls
hello-2.9                                hello_2.9-2+deb8u1.debian.tar.xz
hello_2.9-2+deb8u1co1.debian.tar.xz    hello_2.9-2+deb8u1.dsc
hello_2.9-2+deb8u1co1.dsc               hello_2.9.orig.tar.gz
hello_2.9-2+deb8u1co1_source.changes   _meta
alee@octopus:/tmp/home:alee:obs-debian/hello$ osc rm hello_2.9-2+deb8u1.d
ebian.tar.xz hello_2.9-2+deb8u1.dsc
D    hello_2.9-2+deb8u1.debian.tar.xz
D    hello_2.9-2+deb8u1.dsc
alee@octopus:/tmp/home:alee:obs-debian/hello$
```



The OBS Architecture

Command line tools:
osc and osc-dput-plugin

```
檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)
alee@octopus:/tmp/home:alee:obs-debian/hello$ ls
hello-2.9                                hello_2.9-2+deb8u1.debian.tar.xz
hello_2.9-2+deb8u1co1.debian.tar.xz    hello_2.9-2+deb8u1.dsc
hello_2.9-2+deb8u1co1.dsc               hello_2.9.orig.tar.gz
hello_2.9-2+deb8u1co1_source.changes   _meta
alee@octopus:/tmp/home:alee:obs-debian/hello$ osc rm hello_2.9-2+deb8u1.d
ebian.tar.xz hello_2.9-2+deb8u1.dsc
D    hello_2.9-2+deb8u1.debian.tar.xz
D    hello_2.9-2+deb8u1.dsc
alee@octopus:/tmp/home:alee:obs-debian/hello$ osc add hello_2.9-2+deb8u1c
o1.debian.tar.xz hello_2.9-2+deb8u1co1.dsc hello_2.9-2+deb8u1co1_source.c
hanges
A    hello_2.9-2+deb8u1co1.debian.tar.xz
A    hello_2.9-2+deb8u1co1.dsc
A    hello_2.9-2+deb8u1co1_source.changes
alee@octopus:/tmp/home:alee:obs-debian/hello$ █
```




The OBS Architecture

Command line tools:
osc and osc-dput-plugin

```
檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)
alee@octopus:/tmp/home:alee:obs-debian/hello$ osc ci -m"New revision."
Deleting      hello_2.9-2+deb8u1.debian.tar.xz
Deleting      hello_2.9-2+deb8u1.dsc
Sending       hello_2.9-2+deb8u1co1.debian.tar.xz
Sending       hello_2.9-2+deb8u1co1.dsc
Sending       hello_2.9-2+deb8u1co1_source.changes
Transmitting file data ...
Committed revision 7.
alee@octopus:/tmp/home:alee:obs-debian/hello$
```



COLLABORA

The OBS Architecture

Command line tools:
osc and osc-dput-plugin

The screenshot displays the OBS web interface for the 'hello' package. The top navigation bar includes the 'obs' logo and a 'Watchlist' button. The breadcrumb trail shows the path: Collabora Open Build Service > Projects > home:alee:obs-debian > hello. The package name 'hello' is prominently displayed, followed by the text 'No description set'. Below this, there are four action buttons: 'Branch package', 'Submit package', 'Edit description', and 'Delete package'. The 'Source Files' section shows a table of files with columns for Filename, Size, Changed, and Actions. The table lists four files: '_meta' (113 Bytes, 16 minutes ago), 'hello_2.9-2+deb8u1.debian.tar.xz' (11.2 KB, 16 minutes ago), 'hello_2.9-2+deb8u1.dsc' (1.32 KB, 16 minutes ago), and 'hello_2.9.orig.tar.gz' (707 KB, over 2 years ago). To the right of the 'Source Files' section, there is a 'Build Results' tab and an 'RpmLint Results' tab. The 'Build Results' tab shows three entries: 'Debian_Je...ain_main', 'Debian_Sid_main_main', and 'Debian_St...ain_main', each with a gear icon, the architecture 'x86_64', and a 'building' status. The 'RpmLint Results' tab is currently selected.

Collabora Open Build Service > Projects > home:alee:obs-debian > hello

alee (71 tasks) | Home Project | Logout

Overview Repositories Revisions Requests Users Advanced

hello

No description set

Branch package Submit package Edit description Delete package

Source Files

Show 25 entries Search:

Filename	Size	Changed	Actions
_meta	113 Bytes	16 minutes ago	
hello_2.9-2+deb8u1.debian.tar.xz	11.2 KB	16 minutes ago	
hello_2.9-2+deb8u1.dsc	1.32 KB	16 minutes ago	
hello_2.9.orig.tar.gz	707 KB	over 2 years ago	

Showing 1 to 4 of 4 entries

Previous Next

Add file

Latest Revision

Build Results RpmLint Results

Debian_Je...ain_main	x86_64	building
Debian_Sid_main_main	x86_64	building
Debian_St...ain_main	x86_64	building



COLLABORA

The OBS Architecture

Command line tools:
osc and osc-dput-plugin

The screenshot shows a web browser window with the URL `https://build.collabora.co.uk/package/live_build_log/home:alee:obs-debian/hello/Debian_Stretch_main_main/x86_64`. The page title is "Live Build Log". The OBS logo is in the top left, and a "Watchlist" button is in the top right. The breadcrumb navigation is "Collabora Open Build Service > Projects > home:alee:obs-debian > hello > Build Log". The user "alee (71 tasks)" is logged in, with links for "Home Project" and "Logout".

Build Log for Package hello (Project home:alee:obs-debian)

Repository: Debian_Stretch_main_main **Architecture:** x86_64

Worker: potassium:1 **Buildtime:** 1 minute (54%)

Status: Updating...

[Stop refresh](#) [Download logfile](#)

[Overview](#) [Repositories](#) [Revisions](#) [Requests](#) [Users](#) [Advanced](#)

[\[Abort build\]](#)

```
[ 0s] Memory limit set to 46870860KB
[ 0s] Using BUILD_ROOT=/srv/obs/worker/root_1
[ 0s] Using BUILD_ARCH=x86_64:i686:i586:i486:i386
[ 0s]
[ 0s]
[ 0s] potassium started "build hello_2.9-2+deb8u1co1.dsc" at Fri Mar 17 15:28:16 UTC 2017.
[ 0s]
[ 0s] Building hello for project 'home:alee:obs-debian' repository 'Debian_Stretch_main_main' arch 'x86_64' srcmd5 '759d7d48fa5fda74ccee6f7b7a2271e6'
[ 0s]
[ 0s] processing recipe /srv/obs/worker/root_1/.build-srcdir/hello_2.9-2+deb8u1co1.dsc ...
```



COLLABORA

The OBS Architecture

Command line tools:
osc and osc-dput-plugin

```
Live Build Log x
https://build.collabora.co.uk/package/live_build_log/home:alee:obs-debian/hello/Debian_Stretch_main_main/x86_64

[ 106s] make[1]: Leaving directory '/usr/src/packages/BUILD'
[ 106s] dh_installchangelogs
[ 106s] dh_installman
[ 107s] dh_perl
[ 107s] dh_link
[ 107s] dh_strip_nondeterminism
[ 107s] dh_compress
[ 107s] dh_fixperms
[ 107s] dh_strip
[ 107s] dh_makeshlibs
[ 107s] dh_shlibdeps
[ 108s] dh_installdeb
[ 108s] dh_gencontrol
[ 108s] dh_md5sums
[ 108s] dh_builddeb
[ 109s] dpkg-deb: building package 'hello-dbgSYM' in '../hello-dbgSYM_2.9-2+deb8u1co1~co1_amd64.deb'.
[ 109s] dpkg-deb: building package 'hello' in '../hello_2.9-2+deb8u1co1~co1_amd64.deb'.
[ 109s] dpkg-genbuildinfo
[ 109s] dpkg-genchanges >../hello_2.9-2+deb8u1co1~co1_amd64.changes
[ 109s] dpkg-genchanges: warning: the current version (2.9-2+deb8u1co1) is earlier than the previous one (2.9-2+deb8u1co1)
[ 109s] dpkg-genchanges: info: not including original source code in upload
[ 109s] dpkg-source --after-build BUILD
[ 109s] dpkg-buildpackage: info: binary and diff upload (original source NOT included)
[ 109s] su: Authentication failure
[ 109s] (Ignored)
[ 110s] Warning: mkbaselibs missing in build root, skipping baselibs
[ 110s]
[ 110s] potassium finished "build hello_2.9-2+deb8u1co1.dsc" at Fri Mar 17 15:30:06 UTC 2017.
[ 110s]
```



COLLABORA

The OBS Architecture

Command line tools:
osc and osc-dput-plugin

Screenshot of the OBS (Open Build Service) web interface showing the package page for 'hello'.

The interface includes a navigation bar with 'Overview', 'Repositories', 'Revisions', 'Requests', 'Users', and 'Advanced' tabs. The 'Overview' tab is selected.

The package name 'hello' is displayed, along with the message 'No description set'. Below this, there are links for 'Branch package', 'Submit package', 'Edit description', and 'Delete package'.

The 'Source Files' section shows a list of files with columns for 'Filename', 'Size', 'Changed', and 'Actions'. The files listed are:

Filename	Size	Changed	Actions
_meta	113 Bytes	38 minutes ago	
hello_2.9-2+deb8u1co1.debian.tar.xz	11.3 KB	3 minutes ago	
hello_2.9-2+deb8u1co1.dsc	836 Bytes	3 minutes ago	
hello_2.9-2+deb8u1co1_source.changes	1009 Bytes	3 minutes ago	
hello_2.9.orig.tar.gz	707 KB	over 2 years ago	

Showing 1 to 5 of 5 entries

Build Results and RpmLint Results are also visible on the right side of the interface.

A diagram consisting of a large green circle with a thick border. A small blue arrow points from the left towards the circle. Inside the circle, the text 'The OBS Architecture' is written in a bold, black, sans-serif font.

The OBS Architecture

For more information:
\$ osc help
or
\$ man osc

Command line tools:
osc and osc-dput-plugin



The OBS Architecture

Command line tools:
osc and osc-dput-plugin

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
alee@octopus:/tmp$ osc dput home:alee:obs-debian hello_2.9-2+deb8u1.dsc
WARNING: You might be using an old version of osc package.
A    /tmp/tmpCSh70w_oscdput/home:alee:obs-debian/hello/_meta
At revision 1.
At revision 1.
A    /tmp/tmpCSh70w_oscdput/home:alee:obs-debian/hello/hello_2.9.orig.tar
.gz
A    /tmp/tmpCSh70w_oscdput/home:alee:obs-debian/hello/hello_2.9-2+deb8u1
.debian.tar.xz
A    /tmp/tmpCSh70w_oscdput/home:alee:obs-debian/hello/hello_2.9-2+deb8u1
.dsc
Sending    /tmp/tmpCSh70w_oscdput/home:alee:obs-debian/hello/hello_2.9.or
ig.tar.gz
Sending    /tmp/tmpCSh70w_oscdput/home:alee:obs-debian/hello/hello_2.9-2+
deb8u1.debian.tar.xz
Sending    /tmp/tmpCSh70w_oscdput/home:alee:obs-debian/hello/hello_2.9-2+
deb8u1.dsc
Transmitting file data
Committed revision 3.
alee@octopus:/tmp$
```



Agenda

- Overview
- Benefits of using OBS
- OBS features and workflow
- The OBS Architecture
- **How to setup OBS**
- Tips for optimization



How to Setup OBS

- OBS is now available in Debian Stretch! \o/
- You need to have Debian Stretch or Sid
`apt-get install [obs-server | obs-api | obs-worker]`
- Read the README.Debian for the setup



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OBS is now in Debian Stretch

Years of Debian Packaging
efforts for OBS dependencies.

ruby-acts-as-tree PTS Pool	-	-	-	2.4.0-1	-	2.4.0-1	Git upstream/2.4.0+9	1x✓	IU	-	-	✓	4	2.6.1
ruby-appraiser PTS Pool	-	-	-	0.2.0-3	-	0.2.0-3	Git ✓	1x✓	IU	-	-	✓	-	0.2.0
ruby-appraiser-reek PTS Pool	-	-	-	1.0.0-1	-	1.0.0-1	Git upstream/1.0.0+12	1x✓	IU	0+2	-	✓	1	1.0.0
ruby-appraiser-rubocop PTS Pool	-	-	-	1.0.1-1	-	1.0.1-1	Git upstream/1.0.1+12	1x✓	IU	0+2	-	✓	2	1.0.1
ruby-cliver PTS Pool	-	-	-	0.3.2-3	-	0.3.2-3	Git 0.3.2-3+3	1x✓	IU	-	-	✓	8	0.3.2
ruby-clockwork PTS Pool	2	-	-	1.2.0-3	-	1.2.0-3	Git 1.2.0-3+4	1x✓	IU	0+1	-	fail	3	2.0.1
ruby-cocoon PTS Pool	1	-	-	1.2.6-2	-	1.2.6-2	Git ✓	1x✓	IU	-	-	✓	4	1.2.9
ruby-codemirror-rails PTS Pool	-	-	-	5.6-2	-	5.6-2	Git 5.6-1+3	1x✓	IU	-	-	✓	4	5.16.0
ruby-combustion PTS Pool	-	-	-	0.5.4-1	-	0.5.4-1	Git ✓	1x✓	IU	-	-	✓	1	0.5.5
ruby-flot-rails PTS Pool	-	-	-	0.0.6-2	-	0.0.6-2	Git ✓	1x✓	IU	3+0	-	✓	4	0.0.7
ruby-github-api PTS Pool	-	-	-	0.14.2-1	-	0.14.2-1	Git UNREL	1x✓	IU	-	-	✓	3	0.14.5
ruby-innertube PTS Pool	-	-	-	1.1.0-3	-	1.1.0-3	Git 1.1.0-2+7	1x✓	IU	-	-	✓	4	1.1.0
ruby-jeweler PTS Pool	-	-	-	2.0-1-3	-	2.0-1-3	Git upstream/2.0.1+18	1x✓	IU	0+1	-	✓	2	-
ruby-joiner PTS Pool	-	-	-	0.3.4-2	-	0.3.4-2	Git 0.3.4-2+4	1x✓	IU	0+1	-	✓	4	0.3.4
ruby-jquery-datatables-rails PTS Pool	-	-	-	3.4.0+dfsg-1	-	3.4.0+dfsg-1	Git ✓	1x✓	IU	-	-	✓	2	3.4.0
ruby-middleware PTS Pool	-	-	-	0.1.0-1	-	0.1.0-1	Git upstream/0.1.0+16	1x✓	IU	0+1	-	✓	4	0.1.0
ruby-pundit PTS Pool	-	-	-	1.0.1-2	-	1.0.1-2	Git 1.0.1-2+4	1x✓	IU	0+1	-	✓	4	1.1.0
ruby-rails-tokeninput PTS Pool	-	-	-	1.7.0-1	-	1.7.0-1	Git upstream/1.7.0+21	1x✓	IU	0+1	-	✓	4	1.7.0
ruby-riddle PTS Pool	1	-	-	1.5.12-4	-	1.5.12-3	Git 1.5.12-3+7	1x✓	IU	-	-	fail	4	2.1.0
ruby-sprite-factory PTS Pool	-	-	-	1.7.1-2	-	1.7.1-2	Git 1.7.1-2+4	1x✓	IU	0+2	-	✓	4	-
ruby-thinking-sphinx PTS Pool	-	-	-	3.2.0-1	-	3.2.0-1	Git 3.1.4-3+7	1x✓	IU	-	-	fail	4	3.3.0
ruby-websocket-driver PTS Pool	-	-	-	0.6.3-2	-	0.6.3-2	Git ✓	22x✓	IU	-	-	✓	12	-
ruby-xmlhash PTS Pool	-	-	-	1.3.6-2	-	1.3.6-2	Git ✓	1x✓	IU	-	-	✓	-	-



COLLABORA



OBS is now in
Debian Stretch
lol

Debian Package Tracker

open-build-service

Jump to package... Go

Register | Log in [Subscribe](#)

general	action needed	bugs
source: open-build-service (extra, misc)	<ul style="list-style-type: none">✓ A new upstream version is available: stable high✓ lintian reports 4 warnings high✓ Multiarch hints reports 1 issue(s) normal✓ Does not build reproducibly during testing normal	all: 3
version: 2.7.1-10		RC: 0
maintainer: Debian Ruby Extras Maintainers (archive) [DMD]		I&N: 3
uploaders: Héctor Orón Martínez [DMD] - Andrew Lee (李健秋) [DMD]		M&W: 0
arch: all		F&P: 0
std-ver: 3.9.8		

versions
testing: 2.7.1-10
unstable: 2.7.1-10

news
[2017-02-05] open-build-service 2.7.1-10 MIGRATED to testing (Debian testing watch)
[2017-01-25] Accepted open-build-service 2.7.1-10 (source all) into unstable (Andrew Lee (李健秋)) (signed by: 李健秋 Andrew Lee)
[2017-01-02] open-build-service 2.7.1-9 MIGRATED to testing (Debian testing watch)
[2016-12-22] Accepted open-build-service 2.7.1-9 (source) into unstable (Andrew Lee (李健秋)) (signed by: 李健秋 Andrew Lee)
[2016-12-19] Accepted open-build-service 2.7.1-8 (source amd64) into unstable (Andrew Lee (李健秋))

links
homepage
lintian (0, 4)
build: logs , clang , reproducibility
popcon
browse source code
<input type="text" value="search source code"/>
edit tags



How to Setup OBS

- OBS is now available in Debian Stretch! \o/
- You need to have Debian Stretch or Sid
`apt-get install [obs-server | obs-api | obs-worker]`
- Read the README.Debian for the setup
- OBS in container



OBS install

Install obs-server
The backend services

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
root@stretch:~# apt-get install obs-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bash-completion binutils
  build-essential bundler bzip2 cpp cpp-6 createrepo dbconfig-common debugedit
  deltarpm dirmngr dmeventd dmsetup dpkg-dev fakeroot file fontconfig
  fontconfig-config fonts-dejavu-core fonts-font-awesome fonts-lato
  fonts-liberation g++ g++-6 gcc gcc-6 gcc-6-base gir1.2-glib-2.0 git git-man
  gnupg-agent gnupg2 graphviz gsfonts javascript-common libaio1
  libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl
  libapache2-mod-passenger libapache2-mod-xforward libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap libarchive13 libasan3 libassuan0
  libatomic1 libauthen-sasl-perl libbssolv-perl libbytes-random-secure-perl
  libc-bin libc-dev-bin libc-l10n libc6 libc6-dev libcairo2 libcc1-0 libcdt5
  libcgi-fast-perl libcgi-pm-perl libcgraph6 libcilkrts5 libcommon-sense-perl
  libcrypt-random-seed-perl libcrypt-ssleay-perl libcurl3 libdatrie1
  libdbd-mysql-perl libdbi-perl libdbus-glib-1-2 libdevmapper-event1.02.1
  libdevmapper1.02.1 libdpkg-perl libelf1 libencode-locale-perl liberror-perl
  libevent-2.0-5 libfakeroot libfcgi-perl libfile-fcntllock-perl
  libfile-listing-perl libfile-sync-perl libfont-afm-perl libfontconfig1
  libgcc-6-dev libgcc1 libgd-perl libgd3 libgirepository-1.0-1 libglib2.0-0
  libgmp-dev libgmp10 libgmpxx4ldbl libgomp1 libgpgme11 libgraphite2-3
```



OBS install

Install obs-api
The ruby rails app frontend

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
root@stretch:~# apt-get install obs-api
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils binutils build-essential bundler
  bzip2 cpp cpp-6 dbconfig-common dpkg-dev fakeroot file fontconfig
  fontconfig-config fonts-dejavu-core fonts-font-awesome fonts-lato fonts-liberation
  g++ g++-6 gcc gcc-6 gcc-6-base graphviz gsfonts javascript-common libaio1
  libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl
  libapache2-mod-passenger libapache2-mod-xforward libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap libasan3 libatomic1 libc-bin libc-dev-bin
  libc-l10n libc6 libc6-dev libcairo2 libcc1-0 libcdt5 libcgi-fast-perl
  libcgi-pm-perl libcgmath6 libcilkrts5 libcurl3 libdatatr1 libdbd-mysql-perl
  libdbi-perl libdpkg-perl libencode-locale-perl libevent-2.0-5 libfakeroot
  libfcgi-perl libfile-fcntllock-perl libfontconfig1 libgcc-6-dev libgcc1 libgd-perl
  libgd3 libgmp-dev libgmp10 libgmpxx4ldbl libgomp1 libgraphite2-3 libgts-0.7-5
  libgts-bin libgvc6 libgvpr2 libharfbuzz0b libhtml-parser-perl libhtml-tagset-perl
  libhtml-template-perl libhttp-date-perl libhttp-message-perl libice6
  libio-html-perl libisl15 libitm1 libjbig0 libjpeg62-turbo libjs-bootstrap
  libjs-codemirror libjs-coffeescript libjs-excanvas libjs-jquery libjs-jquery-flot
  libjs-jquery-ui libjs-source-map libjs-uglify liblsan0 libltdl7 liblua5.2-0
  liblwp-mediatypes-perl libmagic-mgc libmagic1 libmpc3 libmpfr4 libmpx2
  libmysqlclient18 libpango-1.0-0 libpangocairo-1.0-0 libpangoft2-1.0-0 libpathplan4
```



OBS install

Install obs-worker
The builders

檔案(F) 編輯(E) 檢視(V) 搜尋(S) 終端機(T) 求助(H)

```
root@stretch:~# apt-get install obs-worker
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  binutils bsdtar curl debootstrap debugedit dmeventd dmsetup libarchive-tools
  libarchive13 libauthen-sasl-perl libc-bin libc-l10n libc6 libdevmapper-event1.02.1
  libdevmapper1.02.1 libelf1 libencode-locale-perl libfile-listing-perl
  libfont-afm-perl libhtml-form-perl libhtml-format-perl libhtml-parser-perl
  libhtml-tagset-perl libhtml-tree-perl libhttp-cookies-perl libhttp-daemon-perl
  libhttp-date-perl libhttp-message-perl libhttp-negotiate-perl libio-html-perl
  libio-socket-ssl-perl liblua5.2-0 liblvm2app2.2 liblvm2cmd2.02
  liblwp-mediatypes-perl liblwp-protocol-https-perl liblzo2-2 libmagic-mgc libmagic1
  libmailtools-perl libnet-http-perl libnet-smtp-ssl-perl libnet-ssleay-perl
  libnspr4 libnss3 libperl5.22 libreadline5 librpm3 librpmbuild3 librpmio3
  librpmsign3 libslp1 libsqlite3-0 libtimedate-perl liburi-perl libwww-perl
  libwww-robotrules-perl libxml-libxml-perl libxml-namespacesupport-perl
  libxml-parser-perl libxml-sax-base-perl libxml-sax-expat-perl libxml-sax-perl
  libxml-simple-perl locales lvm2 lzma perl perl-base perl-modules-5.22 psmisc rpm
  rpm-common rpm2cpio screen slptool
Suggested packages:
  binutils-doc rpm-i18n lrzip libdigest-hmac-perl libgssapi-perl glibc-doc
  libdata-dump-perl libcrypt-ssleay-perl file slpd openslp-doc libauthen-ntlm-perl
  thin-provisioning-tools perl-doc libterm-readline-gnu-perl
```




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- OBS in container



OBS Setup

Read:
`/usr/share/obs-api/README.Debian`



We are working on that:
<https://gitlab.collabora.com/obs/docker-obs>

WIP docker images for
obs-server, obs-api and
obs-worker containers.



OBS in containers

- We are working on that:

<https://gitlab.collabora.com/obs/docker-obs>



Agenda

- Overview
- Benefits of using OBS
- OBS features and workflow
- The OBS Architecture
- How to setup OBS
- **Tips for optimization**



Tips for Optimization

- Merge-our-misc (MoM)
- Bug tracker hook
- Integrate with Jenkins to build package from git
- Integrate with LAVA to run autotest on actual hardware



Tips for Optimization

- **Merge-our-misc (MoM)**
- Bug tracker hook
- Integrate with Jenkins to build package from git
- Integrate with LAVA to run autotest on actual hardware



Automated Continuous
package integration.

Committed Merges

Package	CommentSingularity Version	Debian Version	Base Version	Result
apt JSON LP PTS OBS apt, libapt-pkg4.12, libapt-inst1.5, apt-doc, libapt-pkg-dev, libapt-pkg-doc, apt-utils, apt-transport-https	1.0.9.8.2	1.0.9.8.3	1.0.9.8.2	SYNC_THEIRS
bsh JSON LP PTS OBS bsh, libbsh-java, bsh-doc, bsh-src	2.0b4-15	2.0b4-15+deb8u1	2.0b4-15	SYNC_THEIRS
cairo JSON LP PTS OBS libcairo2-dev, libcairo2, libcairo2-dbg, libcairo2-doc, libcairo-script-interpreter2, libcairo-gobject2, cairo-perf-utils, libcairo2-udeb	1.14.0-2.1	1.14.0-2.1+deb8u1	1.14.0-2.1	SYNC_THEIRS
flash-kernel JSON LP PTS OBS flash-kernel, flash-kernel-installer	3.35+deb8u2co1	3.35+deb8u3	3.35+deb8u2	MERGED
git JSON LP PTS OBS git, git-man, git-core, git-doc, git-arch, git-cvs, git-svn, git-mediawiki, git-email, git-daemon-run, git-daemon-sysvinit, git-gui, gitk, git-el, gitweb, git-all	1:2.1.4-2.1+deb8u1	1:2.1.4-2.1+deb8u2 (debian-security)	1:2.1.4-2.1+deb8u1	SYNC_THEIRS
gtk+2.0 JSON LP PTS OBS libgtk2.0-0, libgtk2.0-0-udeb, libgtk2.0-common, libgtk2.0-bin, libgtk2.0-dev, libgtk2.0-0-dbg, libgtk2.0-doc, gtk2.0-examples, gtk2-engines-pixbuf, gir1.2-gtk-2.0, libgail18, libgail-common, libgail-dev, libgail-dbg, libgail-doc	2.24.25-3	2.24.25-3+deb8u1	2.24.25-3	SYNC_THEIRS
imlib2 JSON LP PTS OBS libimlib2, libimlib2-dev	1.4.6-2	1.4.6-2+deb8u2	1.4.6-2	SYNC_THEIRS



COLLABORA



3-way merge and submit request with new upstream package with local modifications.

Requests for a x

← → ↻ 🔒 | <https://build.collabora.co.uk/project/requests/apertis:16.03:development>

應用程式 Getting Start Backports.0 Debian -- Sel Debian Qual OfficeWiki: View Issues http://securi http://chand Unlocking / Virtually The 其他書籤

obs Watchlis

Collabora Open Build Service > Projects > apertis:16.03:development > Requests alee (6)

Overview Repositories Monitor Requests Users Subprojects Advanced

Requests for apertis:16.03:development

Display requests in state (10):

Created	Source	Requester	Type	State	Priority	
23 days ago	~:branches:apertis:16.03:development / ceph	merge-o-matic	submit	new	moderate	
23 days ago	~:branches:apertis:16.03:development / dnsmasq	merge-o-matic	submit	new	moderate	
23 days ago	~:branches:apertis:16.03:development / xen	merge-o-matic	submit	new	moderate	
23 days ago	~:branches:apertis:16.03:development / libimobiledevice	merge-o-matic	submit	new	moderate	
23 days ago	~:branches:apertis:16.03:development / libusbmuxd	merge-o-matic	submit	new	moderate	
23 days ago	~:branches:apertis:16.03:development / libgd2	merge-o-matic	submit	new	moderate	
23 days ago	~:branches:apertis:16.03:development / dh-python	merge-o-matic	submit	new	moderate	



Tips for Optimization

- Merge-our-misc (MoM)
- **Bug tracker hook**
- Integrate with Jenkins to build package from git
- Integrate with LAVA to run autotest on actual hardware



Update bug status after
package build.

```
open-build-sei x
https://git.collabora.com/cgit/singularity/tools/open-build-service.git/commit/?h=collabora-2.3.8&d=b11af4edf443e5b0926e3b6dcb0730b49fec6ee3

author   Trevor Fischer <tdfischer@fedoraproject.org>    2012-08-22 17:20:36 (GMT)
committer Simon McVittie <simon.mcvittie@collabora.co.uk> 2014-01-03 17:19:49 (GMT)
commit   b11af4edf443e5b0926e3b6dcb0730b49fec6ee3 (patch)
tree     627255ddc7f85644be4a626fd0000ce232325245
parent   764333ab2e2e480fa7efea6d39849a976becdfd0 (diff)
download open-build-service-b11af4edf443e5b0926e3b6dcb0730b49fec6ee3.tar.gz
         open-build-service-b11af4edf443e5b0926e3b6dcb0730b49fec6ee3.tar.xz

Run qa-bughelper.py when packages are built that fix bugs

Diffstat
-rw-r--r-- src/backend/BSEConfig.pm.template 3
-rwxr-xr-x src/backend/bs_sched              44
2 files changed, 47 insertions, 0 deletions

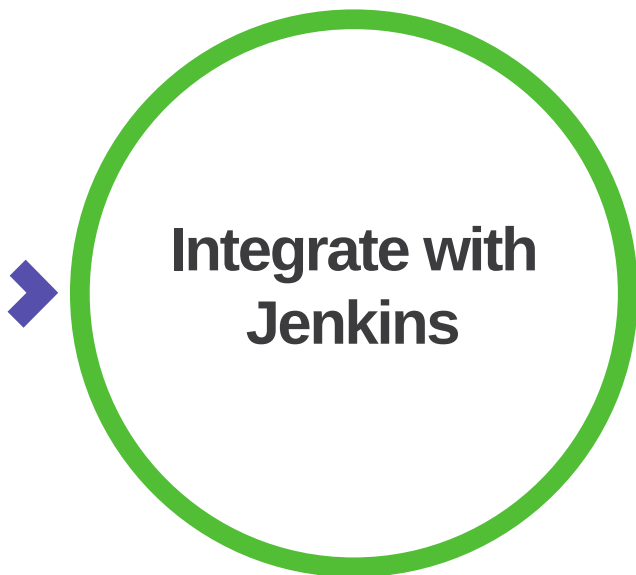
diff --git a/src/backend/BSEConfig.pm.template b/src/backend/BSEConfig.pm.template
index 4e446da..f0f4d96 100644
--- a/src/backend/BSEConfig.pm.template
+++ b/src/backend/BSEConfig.pm.template
@@ -87,6 +87,9 @@ our $bsgroup = 'obsrun';
 # To enable package downloading from backend on demand
 our $enable_download_on_demand = 1;

+# To enable bugzilla hooks, which update tickets when builds are successful.
+our $enable_bugzilla_hooks = 0;
```



Tips for Optimization

- Merge-our-misc (MoM)
- Bug tracker hook
- **Integrate with Jenkins to build package from git**
- Integrate with LAVA to run autotest on actual hardware



Integrate with
Jenkins

Build packages from git.



終端機輸出

```
Started by user Enric Balletbo  
Building remotely on aluminium.collabora.co.uk (debian-jessie) in workspace /var/lib/jenkins/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb  
> /usr/bin/git rev-parse --is-inside-work-tree # timeout=10  
Fetching changes from the remote Git repository  
> /usr/bin/git config remote.origin.url git://git.collabora.co.uk/git/linux.git # timeout=10  
Fetching upstream changes from git://git.collabora.co.uk/git/linux.git  
> /usr/bin/git --version # timeout=10  
> /usr/bin/git fetch --tags --progress git://git.collabora.co.uk/git/linux.git +refs/heads/tcl-linux-4.9.y:refs/remotes/origin/tcl-linux-4.9.y  
> /usr/bin/git rev-parse refs/remotes/origin/tcl-linux-4.9.y^{commit} # timeout=10  
> /usr/bin/git rev-parse refs/remotes/origin/origin/tcl-linux-4.9.y^{commit} # timeout=10  
Checking out Revision d853d49c0cbf0eb0015a02bc43e3f1abaf77e8df (refs/remotes/origin/tcl-linux-4.9.y)  
> /usr/bin/git config core.sparsecheckout # timeout=10  
> /usr/bin/git checkout -f d853d49c0cbf0eb0015a02bc43e3f1abaf77e8df  
> /usr/bin/git rev-list d853d49c0cbf0eb0015a02bc43e3f1abaf77e8df # timeout=10  
> /usr/bin/git rev-parse --is-inside-work-tree # timeout=10  
Fetching changes from the remote Git repository  
> /usr/bin/git config remote.origin.url git+ssh://git.internal.collabora.co.uk/git/tcl/tcl-jenkins-helpers.git # timeout=10  
Fetching upstream changes from git+ssh://git.internal.collabora.co.uk/git/tcl/tcl-jenkins-helpers.git  
> /usr/bin/git --version # timeout=10  
using GIT_SSH to set credentials  
> /usr/bin/git fetch --tags --progress git+ssh://git.internal.collabora.co.uk/git/tcl/tcl-jenkins-helpers.git
```



Integrate with Jenkins

Build packages from git.

```
TobyChurchill x
https://jenkins.collabora.co.uk/view/all/job/TobyChurchill/job/tcl-s150-kernel-4.9-deb/23/consoleFull

Jenkins 全部 TobyChurchill tcl-s150-kernel-4.9-deb #23
/var/lib/jenkins/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp/patches/0549-ASOC-davinci-evm-implement-hic-detection.patch
/var/lib/jenkins/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp/patches/0550-am335x-s150-Set-GPIO1-and-GPIO2-pins-modes-for-tlv32.patch
/var/lib/jenkins/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp/patches/0551-staging-keyb-prog-s150-SPI0-pinmux-helper.patch
/var/lib/jenkins/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp/patches/0552-s150_snippet-Add-config-option-for-keyb-prog-driver.patch
/var/lib/jenkins/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp/patches/0553-FIXUP-micron-n25q032-set-spi-max-frequency-to-1MHz.patch
/var/lib/jenkins/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp/patches/0554-misc-Add-FPGA-driver-for-S150-devices.patch
/var/lib/jenkins/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp/patches/0555-ARM-dts-am335x-s150-Add-support-for-FPGA.patch
/var/lib/jenkins/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp/patches/0556-s150_snippet-Add-config-option-for-tcl-fpga-driver.patch
popd
~/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb

pushd tmp # push 1
~/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp ~/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb
${OSC} co home:eballetbo:branches:home:alee:branches:loqui:belle:core linux
warning: your urllib2 version seems to be broken. Using a workaround for http://bugs.python.org/issue9639
A home:eballetbo:branches:home:alee:branches:loqui:belle:core
A home:eballetbo:branches:home:alee:branches:loqui:belle:core/linux
A home:eballetbo:branches:home:alee:branches:loqui:belle:core/linux/linux_4.9.2-2co1+tcl20170124.0.debian.tar.xz
A home:eballetbo:branches:home:alee:branches:loqui:belle:core/linux/linux_4.9.2-2co1+tcl20170124.0.dsc
A home:eballetbo:branches:home:alee:branches:loqui:belle:core/linux/linux_4.9.2-2co1+tcl20170124.0_source.changes
A home:eballetbo:branches:home:alee:branches:loqui:belle:core/linux/linux_4.9.2.orig.tar.xz
At revision 79299e004ae39d8dbb2a36915900dfea.

pushd home:eballetbo:branches:home:alee:branches:loqui:belle:core/linux # push 2
~/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp/home:eballetbo:branches:home:alee:branches:loqui:belle:core/linux
~/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp ~/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb
dtsa-source -x * dec
```



Integrate with Jenkins

Build packages from git.

```
TobyChurchill x
https://jenkins.collabora.co.uk/view/all/job/TobyChurchill/job/tcl-s150-kernel-4.9-deb/23/consoleFull

Jenkins  > 全部  >  TobyChurchill  >  tcl-s150-kernel-4.9-deb  >  #23

D   linux_4.9.2-2co1+tcl20170124.0.debian.tar.xz
D   linux_4.9.2-2co1+tcl20170124.0.dsc
A   linux_4.9.2-2co1+tcl20170313.1.debian.tar.xz
A   linux_4.9.2-2co1+tcl20170313.1.dsc
A   linux_4.9.2-2co1+tcl20170313.1_source.changes
${OSC} commit -m "New git snapshot"
warning: your urllib2 version seems to be broken. Using a workaround for http://bugs.python.org/issue9639
Deleting   linux_4.9.2-2co1+tcl20170124.0.debian.tar.xz
Deleting   linux_4.9.2-2co1+tcl20170124.0.dsc
Deleting   linux_4.9.2-2co1+tcl20170124.0_source.changes
Sending    linux_4.9.2-2co1+tcl20170313.1.debian.tar.xz
Sending    linux_4.9.2-2co1+tcl20170313.1.dsc
Sending    linux_4.9.2-2co1+tcl20170313.1_source.changes
Transmitting file data ...
Committed revision 4.

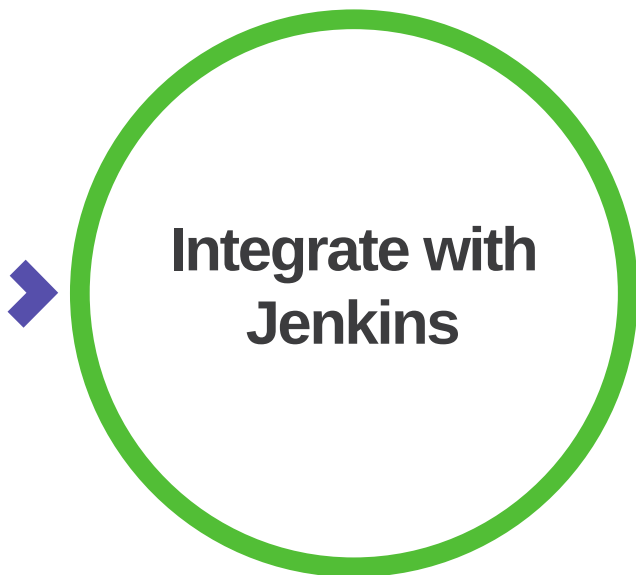
# checkout
popd
~/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb/tmp ~/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb

# tmpdir
popd
~/workspace/TobyChurchill/tcl-s150-kernel-4.9-deb

Sending e-mails to: tcl0003-int@lists.collabora.co.uk alee@collabora.co.uk
Finished: SUCCESS
```



COLLABORA



Build images from git.

TobyChurchill x

安全 | <https://jenkins.collabora.co.uk/view/all/job/TobyChurchill/job/tcl-lugio-belle-image/326/console>

Jenkins

Andrew Lee | 登出

Jenkins > 全部 > TobyChurchill > tcl-lugio-belle-image > #326

- 回到專案
- 狀態
- 變更
- Console Output
- View as plain text
- 編輯建構資訊
- 刪除這次建構
- Git Build Data
- No Tags
- V# Version 20170317.0
- 檢看指紋
- 前一次建構

終端機輸出

```
Started by upstream project "TobyChurchill/tcl-lugio-belle-hwpack" build number 307
originally caused by:
  Started by upstream project "TobyChurchill/tcl-lugio-belle-ospack" build number 343
  originally caused by:
    Started by timer
Building remotely on aurum (image-builder docker-slave) in workspace /scratch/tmp/jenkins/workspace/TobyChurchill/tcl-lugio-belle-image
> /usr/bin/git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> /usr/bin/git config remote.origin.url git+ssh://git.internal.collabora.co.uk/git/tcl/tcl-images.git # timeout=10
Fetching upstream changes from git+ssh://git.internal.collabora.co.uk/git/tcl/tcl-images.git
> /usr/bin/git --version # timeout=10
using GIT_SSH to set credentials
> /usr/bin/git fetch --tags --progress git+ssh://git.internal.collabora.co.uk/git/tcl/tcl-images.git
+refs/heads/*:refs/remotes/origin/*
> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/origin/master^{commit} # timeout=10
Checking out Revision dee01de924d108e79cec53d311cc125818642b95 (refs/remotes/origin/master)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f dee01de924d108e79cec53d311cc125818642b95
> /usr/bin/git rev-list dee01de924d108e79cec53d311cc125818642b95 # timeout=10
[tcl-lugio-belle-image] $ /bin/sh -xe /tmp/hudson4133670521071726295.sh
+ rm -rf image-build
+ mkdir image-build
Copied 1 artifact from "TobyChurchill - tcl-lugio-belle-ospack" build number 343
Copied 2 artifacts from "TobyChurchill - tcl-lugio-belle-hwpack" build number 307
[tcl-lugio-belle-image] $ /bin/sh -xe /tmp/hudson9219015962494278038.sh
+ cd image-build
```




Integrate with Jenkins

Build images from git.

```
TobyChurchill x
https://jenkins.collabora.co.uk/view/all/job/TobyChurchill/job/tcl-luqio-belle-image/326/console

Jenkins  > 全部  >  TobyChurchill  >  tcl-luqio-belle-image  >  #326

['mount', '/dev/loop0', '/scratch/tmp/jenkins/workspace/TobyChurchill/tcl-luqio-belle-image/image-build/tmp/tmpoEyMK1/boot-disc']
Finally for: ['mount', '/dev/loop0', '/scratch/tmp/jenkins/workspace/TobyChurchill/tcl-luqio-belle-image/image-build/tmp/tmpoEyMK1/boot-disc']

Populating rootfs partition
Be patient, this may take a few minutes

['mount', '/dev/loop0', '/scratch/tmp/jenkins/workspace/TobyChurchill/tcl-luqio-belle-image/image-build/tmp/tmpoEyMK1/root-disc/']

Creating /etc/flash-kernel.conf

Updating /etc/network/interfaces

Finally for: ['mount', '/dev/loop0', '/scratch/tmp/jenkins/workspace/TobyChurchill/tcl-luqio-belle-image/image-build/tmp/tmpoEyMK1/root-disc/']
Done creating Linaro image on loqui-belle-image-20170317.0
+ pwd
+ sudo chown jenkins:jenkins /scratch/tmp/jenkins/workspace/TobyChurchill/tcl-luqio-belle-image/image-build/loqui-belle-image-20170317.0
+ bmaptool create loqui-belle-image-20170317.0
+ gzip loqui-belle-image-20170317.0
SSH: Connecting from host [aurum]
SSH: Connecting with configuration [Image server] ...
SSH: Disconnecting configuration [Image server] ...
SSH: Transferred 2 file(s)
Finished: SUCCESS
```

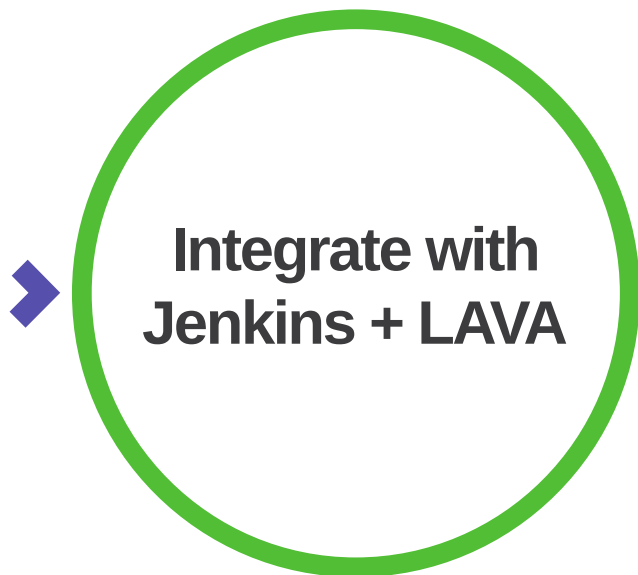


Tips for Optimization

- Merge-our-misc (MoM)
- Bug tracker hook
- Integrate with Jenkins to build package from git
- **Integrate with LAVA to run autotest on actual hardware**



COLLABORA



Run autotest on actual hardware.

安全 | <https://lava.collabora.co.uk/scheduler/activejobs>

LAVA [Home](#) [Dashboard](#) [Results](#) [Scheduler](#) [API](#) [Help](#)

Instance: lava [Andrew Lee](#)

Active Jobs

[* All Jobs](#) [▶ Active Jobs](#) [|| Queued Jobs](#) [≡ Pipeline Jobs](#) [♥ Healthcheck Jobs](#)

Show entries Search [?](#)

ID ↑↓	Actions	Status ↑↓	Priority ↑↓	Device ↑↓	Description ↑↓	Submitter ↑↓	Submit time ↑↓
893033		Running	Medium	minnowboard-max-E3825-cbg-1	Clutter tests on 17.09 Minnowboard max using development image 20170911.0	apertis-validator	Sept.11, 1:33a.m.

[Report a bug](#) | [Support](#) | [Source code](#)

LAVA Server is free software developed by [Linaro](#). It is distributed under the terms of the [GNU Affero General Public License version 3](#).
You have the right to obtain source code of any server side installations of this software that you interact with.



More details

- Build a infrastructure of a Debian derivative
 - a Debian-derived platform for infotainment in automotive vehicles
- Tomorrow 9:00am
- Same room by Andrew Shadura



Recap

- Overview
- Benefits of using OBS
- OBS features and workflow
- The OBS Architecture
- How to setup OBS
- Tips for optimization

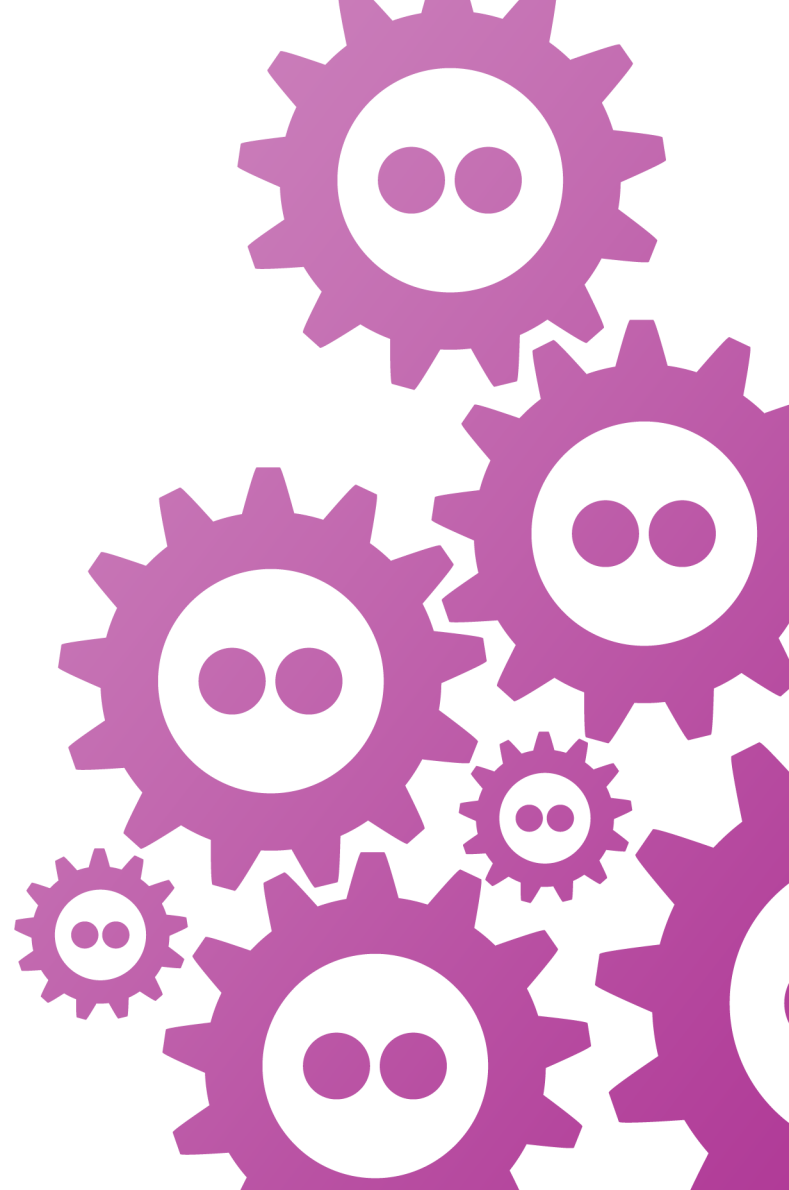


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FOSDEM¹⁸

**We're hiring:
col.la/careers**

Any questions?



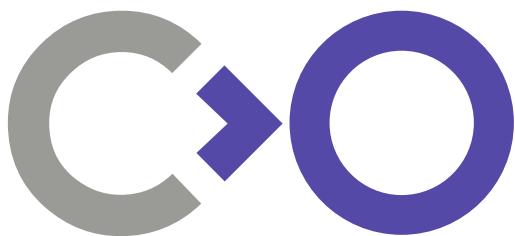


Thank you for everyone who was involved

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Thank you!

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