Open Build Service in Debian

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> Mini DebConf Japan 10 December 2016 Tokyo, Japan

Agenda

- Introduction
- OBS Architecture
- Experience
- Packaging effort
- Hands on practice
- Currect challenges
- FAQ
- Credit & License

Agenda

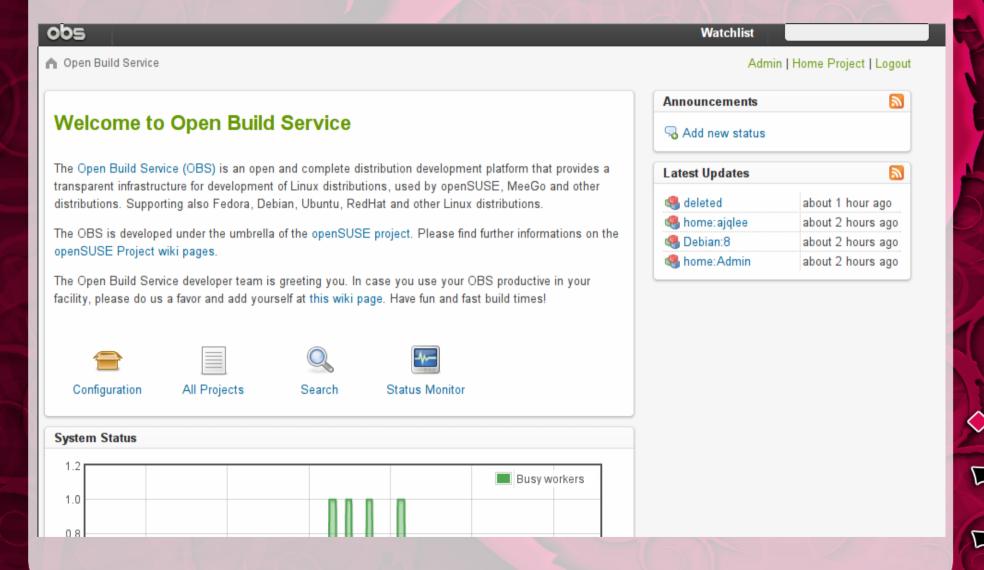
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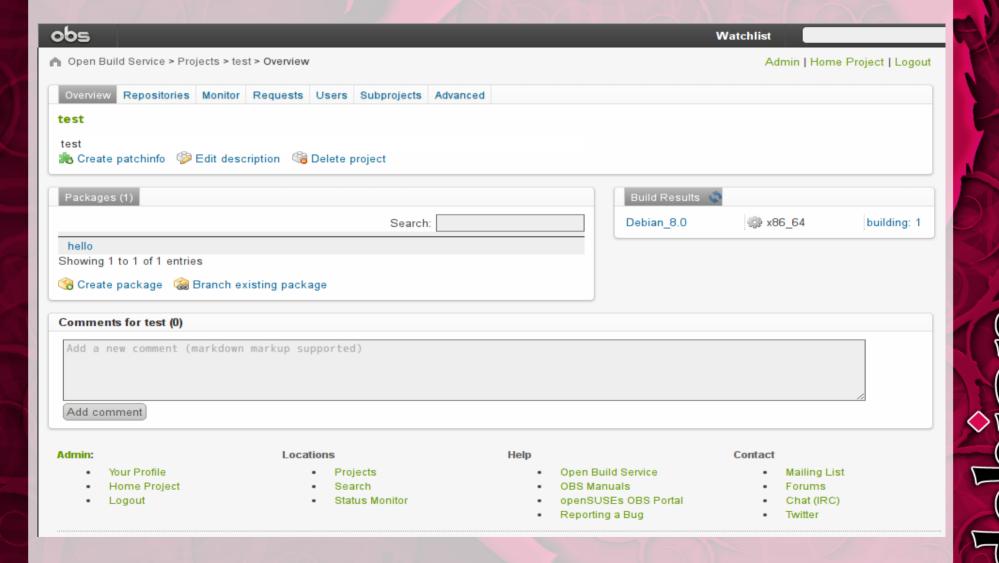
- What is Open Build Service (OBS)?
- Open Build Service Architecture



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- Open Build Service Architecture



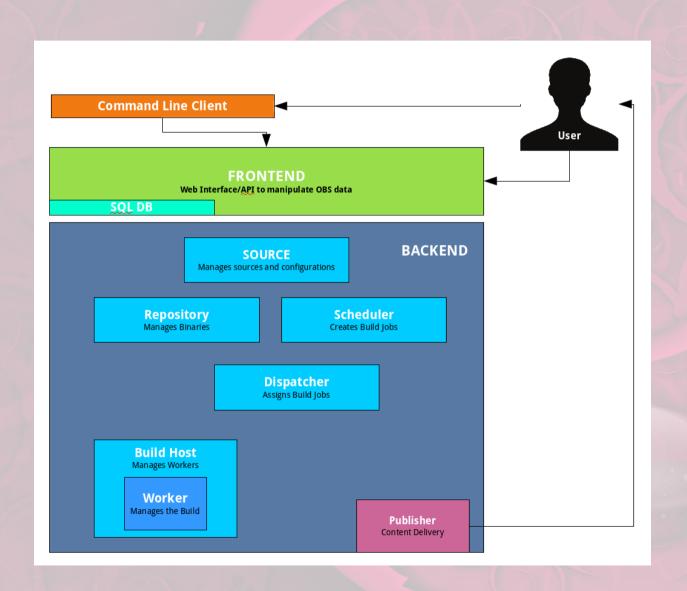




- What is Open Build Service (OBS)?
- Open Build Service Architecture

- Backend Services
- Frontend Ruby Rails App
- Command line tools

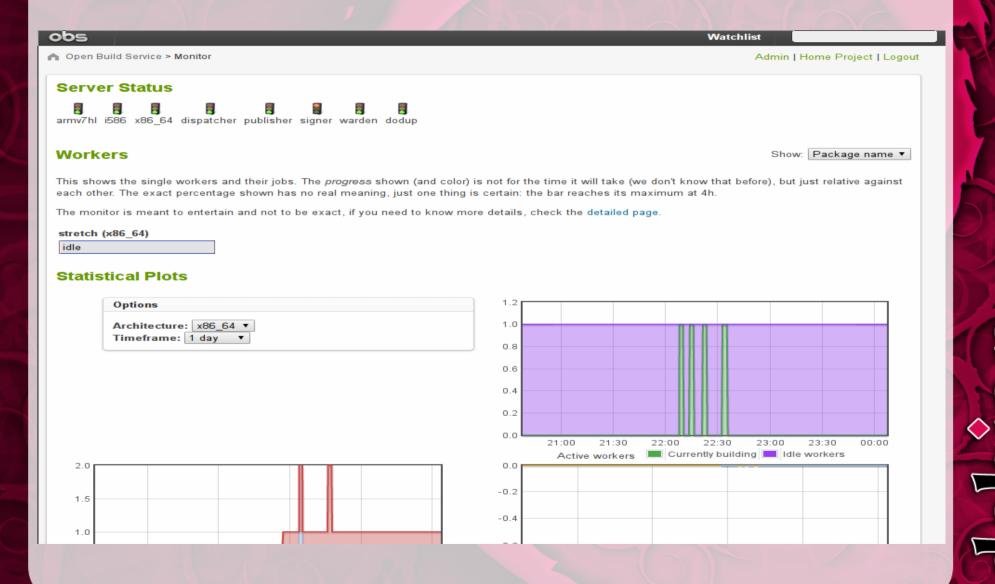
OBS Architecture



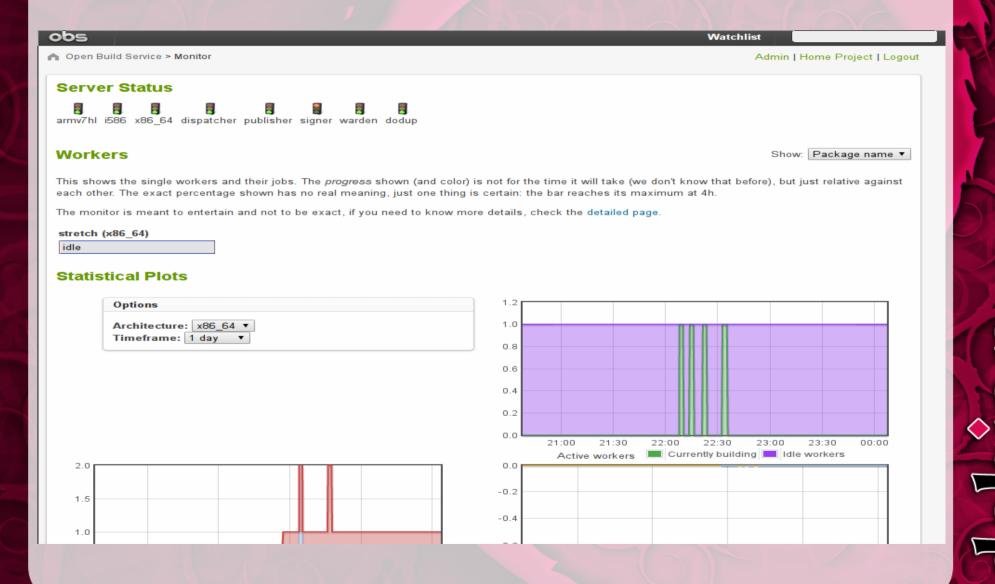
- Backend Services
 - obs-server
 - obs-worker
- Frontend Ruby Rails App
- Command line tools

- Backend Services
 - obs-server
 - dispatcher dispatches build jobs
 - publisher publish package repository
 - warden monitors workers(builders)
 - dodup Download on Damand updater
 - obs-worker
- Frontend Ruby Rails App
- Command line tools

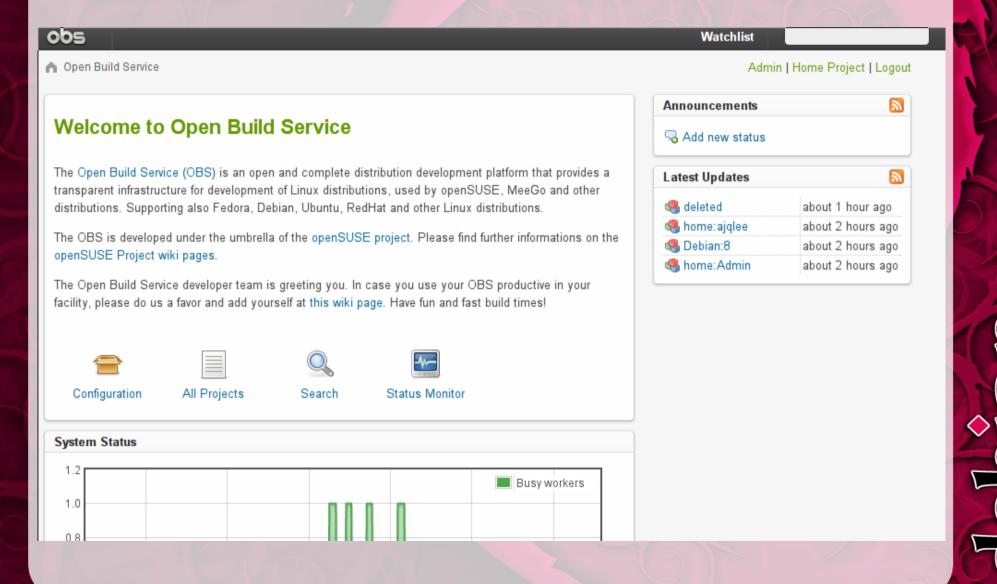


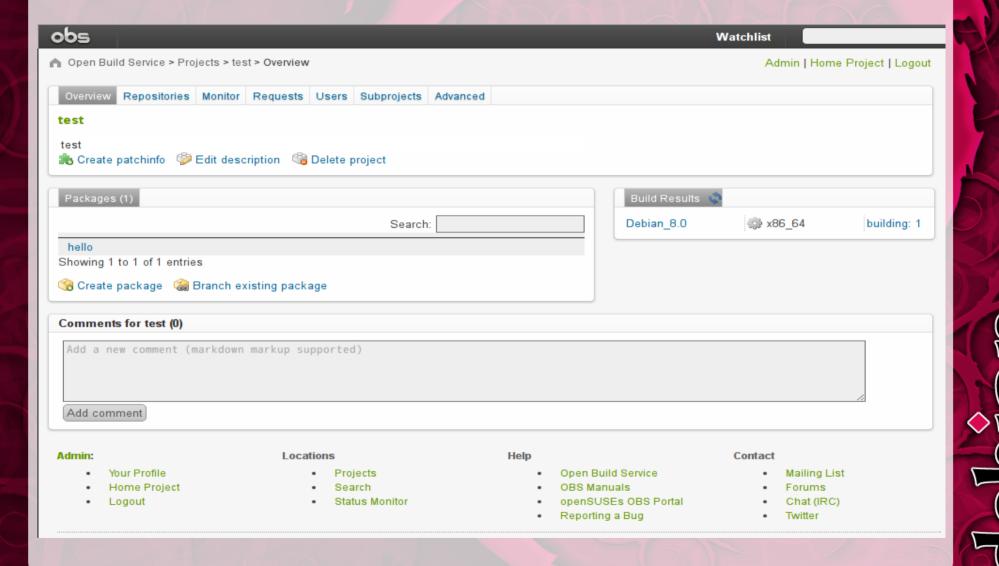


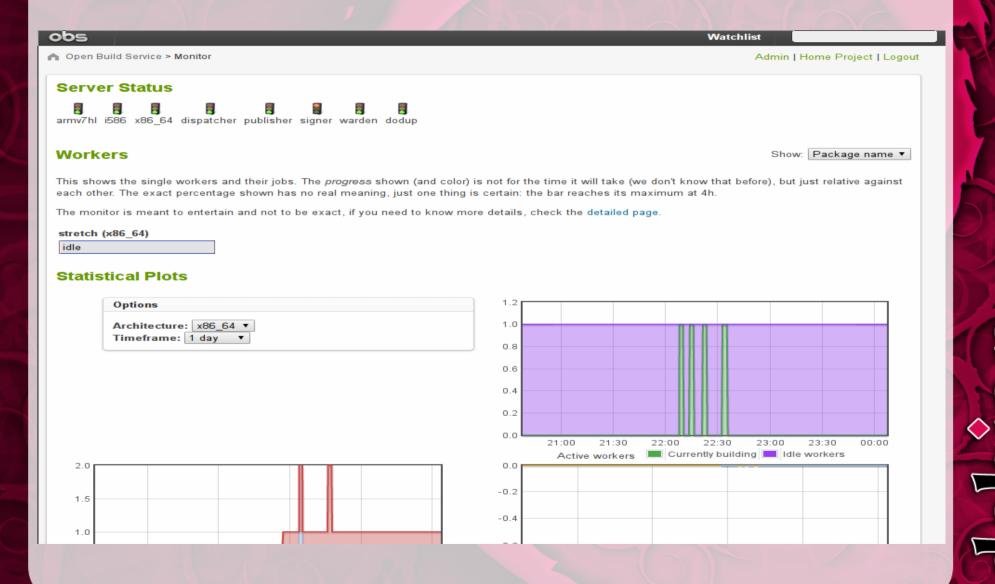
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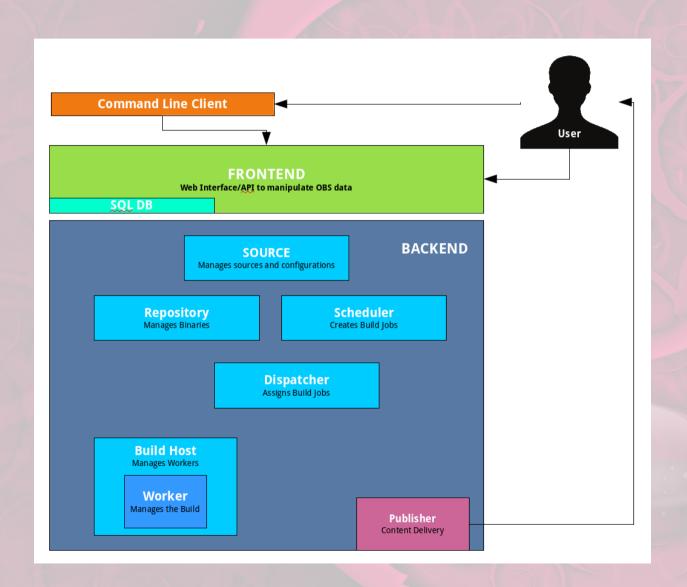






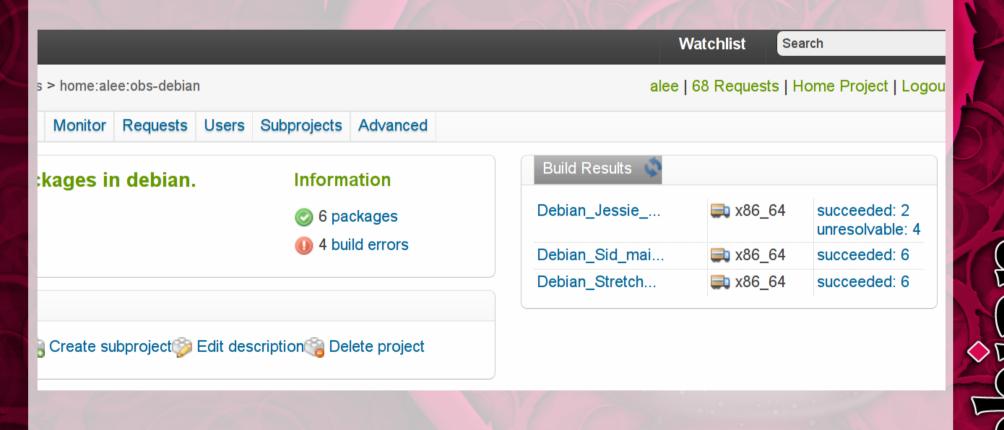
- Backend Services
- Frontend Ruby Rails App
- Command line tools
 - osc
 - osc-dput-plugin

OBS Architecture



- Daily work at collabora.co.uk
- Collabora Open first! OBS 2.3 debian packages https://repositories.collabora.co.uk/obs/
- Merge-o-Matic: Continuous package integration
- Osc dput plugin: upload debian package into obs server via command line.

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28

ruby-codemirror-rails, nothing provides ruby-dalli, nothing provides ruby-delayedjob, nothing provides ruby-delayed-jobactive-record, nothing provides ruby-flotprovides ruby-rails-tokeningut, nothing ruby-thinking-sphinx, nothing provides ruby-websocket-driver, nothing provides

rails, nothing provides ruby-innertube. nothing provides ruby-joiner, nothing provides ruby-middleware, nothing

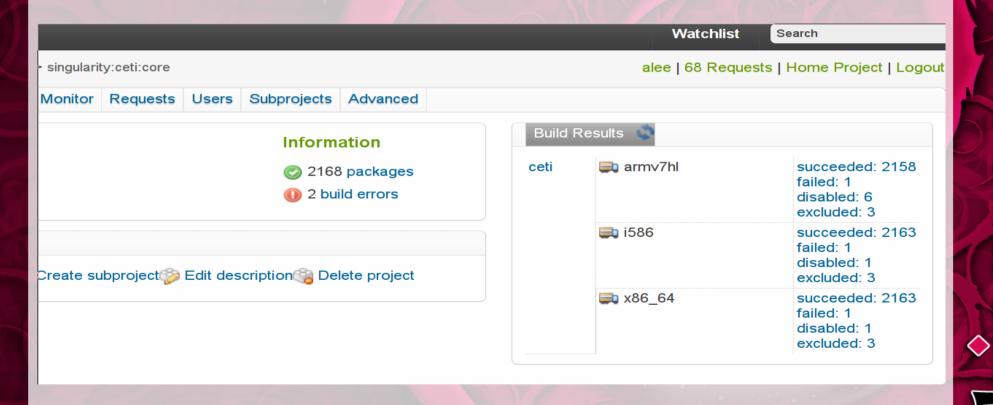
nothing provides ruby-pundit, nothing

provides ruby-riddle, nothing provides ruby-sprite-factory, nothing provides

provides ruby-pkg-config >= 1.1.6,

provides ruby-responders, nothing

ruby-xmlhash



		ceti		
	🚐 armv7hl	📖 i586	₽ x86_64	
a52dec	succeeded	succeeded	succeeded	
aalib	succeeded	succeeded	succeeded	
accountsservice	succeeded	succeeded	succeeded	
acl	succeeded	succeeded	succeeded	
acpica-unix	succeeded	succeeded	succeeded	
adduser	succeeded	succeeded	succeeded	
adwaita-icon-theme	succeeded	succeeded	succeeded	
alabaster	succeeded	succeeded	succeeded	
alsa-lib	succeeded	succeeded	succeeded	
alsa-plugins	succeeded	succeeded	succeeded	
alsa-utils	succeeded	succeeded	succeeded	
ant	succeeded	succeeded	succeeded	
ant-contrib	succeeded	succeeded	succeeded	
anthy	succeeded	succeeded	succeeded	
antir	Succeeded	succeeded	succeeded	

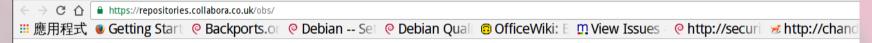
	ceti			
	🗪 armv7hl	📖 i586	≕ x86_64	
mysql-5.5		failed	failed	
perl	failed			

Updated at: 2016-12-09 00:40:10+00:00

Legend

- succeeded: Package has built successfully and can
- failed: The package does not build successfully. No packages, if they exist.
- unresolvable: The build can not begin, because requ
- broken: The sources either contain no build descripti
- blocked: This package waits for other packages to b

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Welcome to Open Build Service (by Collabora)

To use this repository add an apt sources.list.d file with a deb line such as the following:

deb https://repositories.collabora.co.uk/obs/debian/ wheezy tools
deb-src https://repositories.collabora.co.uk/obs/debian/ wheezy tools

deb https://repositories.collabora.co.uk/obs/ubuntu/ precise tools
deb-src https://repositories.collabora.co.uk/obs/ubuntu/ precise tools

deb https://repositories.collabora.co.uk/obs/debian/ jessie tools
deb-src https://repositories.collabora.co.uk/obs/debian/ jessie tools

Also grab the keyring package <u>collabora-obs-archive-keyring</u> and install with dpkg -i

Debian jessie package
Debian wheezy package
Ubuntu precise package

More documentation can be found in the Collabora OBS Guide odt pdf.

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Merge-o-Matic: Continuous package integration

- Upon branching concept build, a new project gets created and populated with newer upstream packages with our local modifications applied (if 3-way merge fails, package gets listed for manual review).
- Merge-o-matic provides automated continuous integration for packages pulling changes from upstream distributions.
- Only works for DEB package based distributions.

Committed	Merges
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Package	Comment Singularity 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-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+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

My Work

This page summarizes all tasks where an action is requested from user alee. You can also use your complete list of requests.

Open Reviews

Modified 🔺	Source \$	Target	Requester \$	Тур∉	Actions
2 months ago	home:merge:ceti:core / libdbd-mysql-perl	singularity:ceti:core	merge-o-matic	submit	0
2 months ago	home:mergeti:core / libdatetione-perl	singularity:ceti:core	merge-o-matic	submit	<u> </u>
2 months ago	home:merge-o-matarity:ceti:core / tzdata	singularity:ceti:core	merge-o-matic	submit	(1)
2 months ago	home:merge-o-mrity:ceti:core / zookeeper	singularity:ceti:core	merge-o-matic	submit	<u> </u>

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How I have been using

```
alee@octopus: /home/alee/sources/obs
alee@octopus:~/sources/obs$ osc dput home:alee:obs-debian open-build-service_2.7
1-6.dsc
WARNING: You might be using an old version of osc package.
     /tmp/tmpZvsvmD_oscdput/home:alee:obs-debian/open-build-service/_meta
At revision 1.
Couldn't remove  meta
At revision 1.
     /tmp/tmpZvsvmD_oscdput/home:alee:obs-debian/open-build-service/open-build-s
ervice_2.7.1.oriq.tar.qz
     /tmp/tmpZvsvmD_oscdput/home:alee:obs-debian/open-build-service/open-build-s
ervice 2.7.1-6.debian.tar.xz
     /tmp/tmpZvsvmD_oscdput/home:alee:obs-debian/open-build-service/open-build-s
ervice 2.7.1-6.dsc
Sendina
           /tmp/tmpZvsvmD_oscdput/home:alee:obs-debian/open-build-service/open-b
uild-service_2.7.1.orig.tar.gz
         /tmp/tmpZvsvmD_oscdput/home:alee:obs-debian/open-build-service/open-b
uild-service_2.7.1-6.debian.tar.xz
           /tmp/tmpZvsvmD_oscdput/home:alee:obs-debian/open-build-service/open-b
uild-service 2.7.1–6.dsc
Transmitting file data
Committed revision 415.
alee@octopus:~/sources/obs$
```

- Packaging from OBS 2.5, 2.6 to 2.7 for years since we released OBS 2.3.
- Uploaded a lot of ruby gem packages as missing depends into Debian.

ruby-acts-as-list[U] PTS Pool	- Mi	-	-	0.7.2-4	-	<u>0.7.2-4</u> -	<u>Git</u> <u>ERROR</u>
<mark>ruby</mark> -acts-as-tree[U] <u>PTS</u> <u>Pool</u>	- м	-	-	2.4.0-1	-	<u>2.4.0-1</u>	Git upstream/2.4.0+9
<mark>ruby</mark> -appraiser[U] <u>PTS</u> <u>Pool</u>	- 141	-	-	0.2.0-3	-	<u>0.2.0-3</u> -	<u>Git</u> ✓
<mark>ruby</mark> -appraiser-reek[U] <u>PTS Pool</u>	- 📶	-	-	1.0.0-1	-	<u>1.0.0-1</u> -	Git upstream/1.0.0+12
ruby-appraiser-rubocop[U] PTS Pool	- Mi	-	-	1.0.1-1	-	<u>1.0.1-1</u> -	Git upstream/1.0.1+12
ruby-cliver[U] PTS <u>Pool</u>	- 📶	-	-	0.3.2-3	-	0.3.2-3	Git 0.3.2-3+3
<mark>ruby</mark> -clockwork[U] <u>PTS</u> <u>Pool</u>	2 🕍	1	-	1.2.0-3 <u>AUTORM</u>	-	<u>1.2.0-3</u> -	<u>Git</u> 1.2.0-3+3
<mark>ruby</mark> -cocoon[U] <u>PTS</u> <u>Pool</u>	1 м	-	-	1.2.6-2	-	<u>1.2.6-2</u>	Git ✓
<mark>ruby-codemirror-rails</mark> [U] <u>PTS</u> <u>Pool</u>	- 📶	-	-	5.6-2	-	<u>5.6-2</u> -	<u>Git</u> <u>5.6-1+3</u>
ruby-combustion[U] PTS Pool	- м	-	-	0.5.4-1	-	<u>0.5.4-1</u> -	<u>Git</u> ✓
ruby-flot-rails[U] <u>PTS</u> <u>Pool</u>	- 📶	-	-	0.0.6-2	-	<u>0.0.6-2</u> -	Git ✓
<mark>ruby</mark> -github-api[U] <u>PTS</u> <u>Pool</u>	- м	-	-	0.14.2-1	-	<u>0.14.2-1</u> -	Git UNREL
ruby-innertube[U] <u>PTS</u> <u>Pool</u>	- 📶	-	-	1.1.0-3	-	<u>1.1.0-3</u> -	<u>Git</u> 1.1.0-2+7
ruby-jeweler[U] <u>PTS Pool</u>	1 м	-	-	2.0.1-2 <u>AUTORM</u>	-	<u>2.0.1-2</u> -	Git upstream/2.0.1+16
ruby-joiner[U] <u>PTS</u> <u>Pool</u>	- 📶	-	-	0.3.4-2	-	<u>0.3.4-2</u> -	<u>Git</u> 0.3.4-2+4
ruby-jquery-datatables-rails[U] <u>PTS</u> <u>Pool</u>	- м	-	-	3.4.0+dfsg-1	-	3.4.0+dfsg-1 -	Git ✓
ruby-middleware[U] <u>PTS</u> <u>Pool</u>	- 📶	-	-	0.1.0-1	-	<u>0.1.0-1</u> -	Git upstream/0.1.0+16
<mark>ruby</mark> -pundit[U] <u>PTS</u> <u>Pool</u>	- 📶	-	-	1.0.1-2	-	<u>1.0.1-2</u> -	<u>Git</u> 1.0.1-2+4
ruby-rails-tokeninput[U] <u>PTS</u> <u>Pool</u>	- 📶	-	-	1.7.0-1	-	<u>1.7.0-1</u> -	Git upstream/1.7.0+21
<mark>ruby</mark> -reek[U] <u>PTS</u> <u>Pool</u>	1 м	1	- <u>Excuse</u>	3.8.2-2	-	<u>3.8.2-2</u>	<u>Git</u> 3.8.2-2+5
ruby-riddle[U] <u>PTS</u> <u>Pool</u>	2 📶	1	-	1.5.12-3 <u>AUTORM</u>	-	<u>1.5.12-3</u> -	<u>Git</u> 1.5.12-3+2
ruby-sprite-factory[U] <u>PTS</u> <u>Pool</u>	- 📶	-	-	1.7.1-2	-	<u>1.7.1-2</u>	<u>Git</u> 1.7.1-2+4
ruby-thinking-sphinx[U] <u>PTS</u> <u>Pool</u>	- 📶	-	-	3.2.0-1 <u>AUTORM</u>	-	<u>3.2.0-1</u> -	<u>Git</u> 3.1.4-3+7
ruby-websocket-driver[U] <u>PTS</u> <u>Pool</u>	- м	-	-	0.6.3-2	-	<u>0.6.3-2</u> -	Git ✓
ruby-xmlhash[U] PTS Pool	- 1	-	-	1.3.6-2	-	<u>1.3.6-2</u>	<u>Git</u> 1.3.6-2+4

- Fixed a lot of embedded code from upstream ruby gem that has license issue in our Debian packages.
- Fixed a lot of embedded .js issues to fits our policy.
- Found some gems are broken and fix them with support Debian Ruby extras team.

- Test our package and found OBS Webui always does not work with debian gem packages, but works with pure ruby gems.
- Ask helps around from Debian ruby extras team and Ruby developers.
- Learning ruby rails debuging.
- Found some gems are broken and fix them properly with support Debian Ruby extras team.

news RSS

- [2016-09-01] ruby-appraisal 0.5.1-2 MIGRATED to testing (Britney)
- [2016-08-26] Accepted 0.5.1-2 in unstable (medium) (Andrew Lee (李健秋))
- [2016-08-19] ruby-appraisal REMOVED from testing (Britney)
- [2013-05-29] ruby-appraisal 0.5.1-1 MIGRATED to testing (Britney)
- [2013-05-18] Accepted 0.5.1-1 in unstable (low) (Praveen Arimbrathodivil)

- [2016-10-30] ruby-kaminari 0.17.0-3 MIGRATED to testing (Britney)
- [2016-10-24] Accepted 0.17.0-3 in unstable (medium) (Andrew Lee (李健秋))
- [2016-07-14] ruby-kaminari 0.17.0-2 MIGRATED to testing (Britney)
- [2016-07-08] Accepted 0.17.0-2 in unstable (medium) (Pirate Praveen)
- [2016-06-16] Accepted 0.17.0-1 in experimental (medium) (Abhijith PA)
- [2015-06-01] ruby-kaminari 0.16.3-1 MIGRATED to testing (Britney)
- [2015-05-27] Accepted 0.16.3-1 in unstable (medium) (Pirate Praveen)
- [2014-09-23] ruby-kaminari 0.16.1-1 MIGRATED to testing (Britney)
- [2014-09-12] Accepted 0.16.1-1 in unstable (low) (Pirate Praveen)

news RSS

- [2016-12-01] ruby-iguery-ui-rails 5.0.5-6 MIGRATED to testing (Britney)
- [2016-11-25] Accepted 5.0.5-6 in unstable (medium) (Pirate Praveen)
- [2016-11-23] Accepted 5.0.5-5 in unstable (medium) (Andrew Lee (李健秋))
- [2016-07-07] ruby-jquery-ui-rails 5.0.5-4 MIGRATED to testing (Britney)
- [2016-07-01] Accepted 5.0.5-4 in unstable (medium) (Pirate Praveen)
- [2015-09-22] ruby-jquery-ui-rails 5.0.5-3 MIGRATED to testing (Britney)
- [2015-09-16] Accepted 5.0.5-3 in unstable (medium) (Pirate Praveen)
- [2015-09-16] Accepted 5.0.5-2 in unstable (medium) (Pirate Praveen)
- [2015-09-04] ruby-iguery-ui-rails 5.0.5-1 MIGRATED to testing (Britney)
- [2015-08-29] Accepted 5.0.5-1 in unstable (medium) (Pirate Praveen)
- [2015-05-07] ruby-iguery-ui-rails 5.0.3-2 MIGRATED to testing (Britney)
- [2015-05-01] Accepted 5.0.3-2 in unstable (medium) (Pirate Prayeen)
- [2015-04-27] ruby-jquery-ui-rails 4.2.0-4 MIGRATED to testing (Britney)
- [2015-04-09] Accepted 5.0.3-1 in experimental (medium) (Pirate Praveen)
- [2015-01-09] Accepted 4.2.0-4 in unstable (medium) (Pirate Praveen) [2015-01-09] Accepted 4.2.0-3 in unstable (medium) (Pirate Praveen)
- [2014-12-29] Accepted 4.2.0-2 in unstable (low) (Pirate Prayeen)

news RSS

- [2016-05-24] ruby-pka-confia 1.1.7-1 MIGRATED to testing (Britney)
- [2016-05-18] Accepted 1.1.7-1 in unstable (medium) (Andrew Lee (李健秋))
- [2014-03-24] ruby-pka-confia 1.1.5-1 MIGRATED to testing (Britney)
- [2014-03-13] Accepted 1.1.5-1 in unstable (low) (HIGUCHI Daisuke (VDR dai))
- [2014-02-16] ruby-pkg-config REMOVED from testing (Britney)
- [2011-08-22] ruby-pkg-config 1.1.2-1 MIGRATED to testing (Britney)
- [2011-08-11] Accepted 1.1.2-1 in unstable (low) (Antonio Terceiro)
- [2011-07-13] ruby-pkg-config 1.1.2~ait20110615-2 MIGRATED to testing (Britney)
- [2011-07-02] Accepted 1.1.2~ait20110615-2 in unstable (low) (Antonio Terceiro)
- [2011-06-28] ruby-pkg-config 1.1.2~git20110615-1 MIGRATED to testing (Britney)
- [2011-06-17] Accepted 1.1.2~ait20110615-1 in unstable (low) (Antonio Terceiro)

- Install obs from debian.
- Basic setup to use obs to build your own packages.
- Multiple users collaborative work.



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- Add repo for obs on Stretch or Sid. deb http://ftp.tw.debian.org/debian/ experimental main
- Installing obs.
 - # apt-get install obs-server obs-api obsworker

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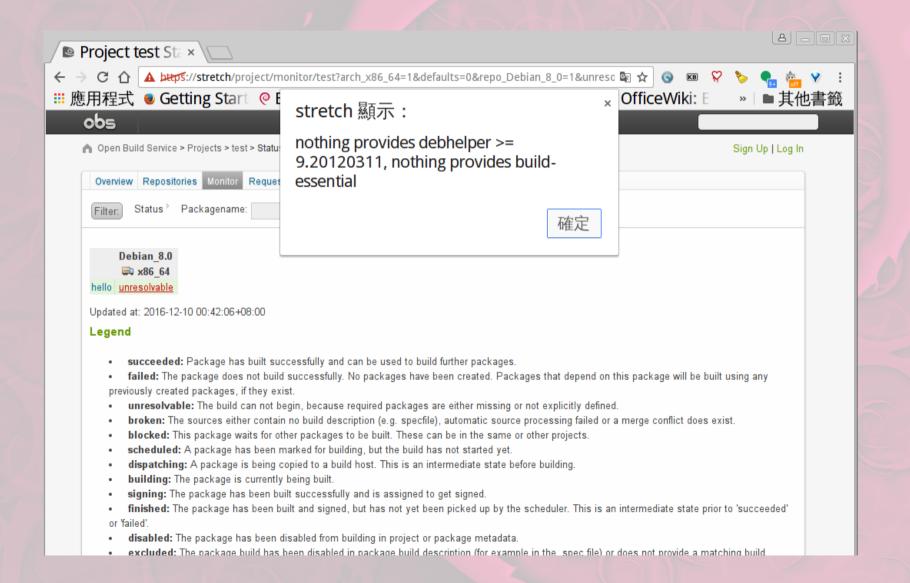
 Basic setup to use obs to build your own packages.

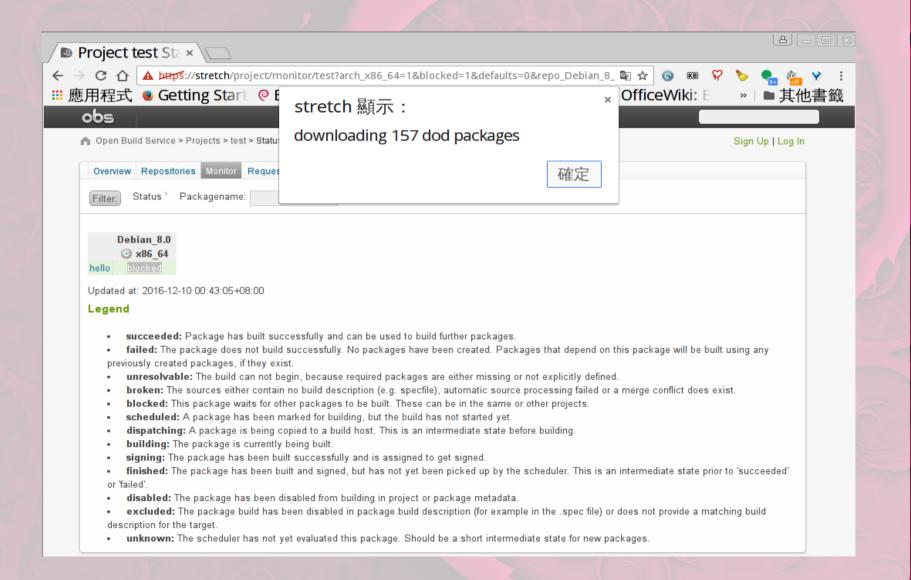
Check the tutorial

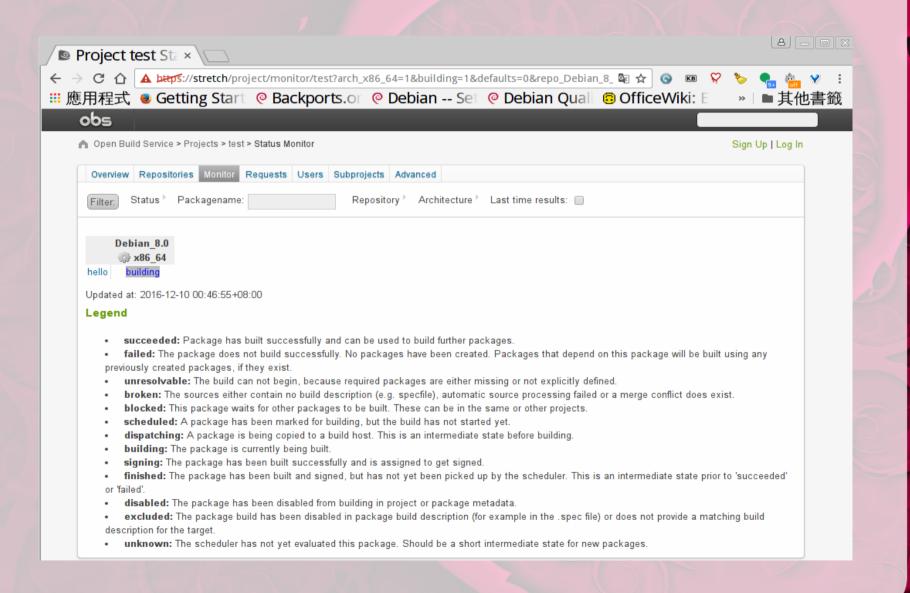
Part1 https://goo.gl/OSBNqv

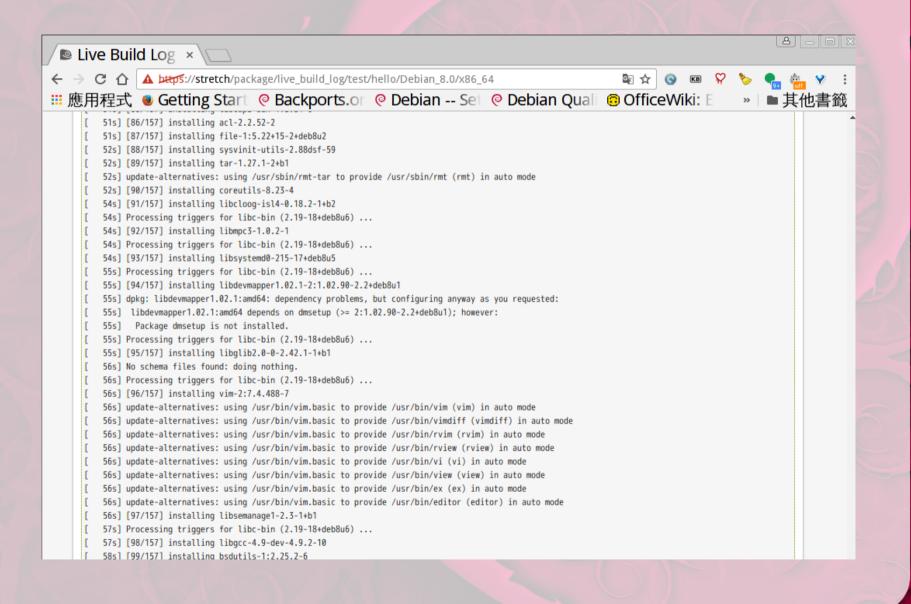
Part2 https://goo.gl/2rNPMx

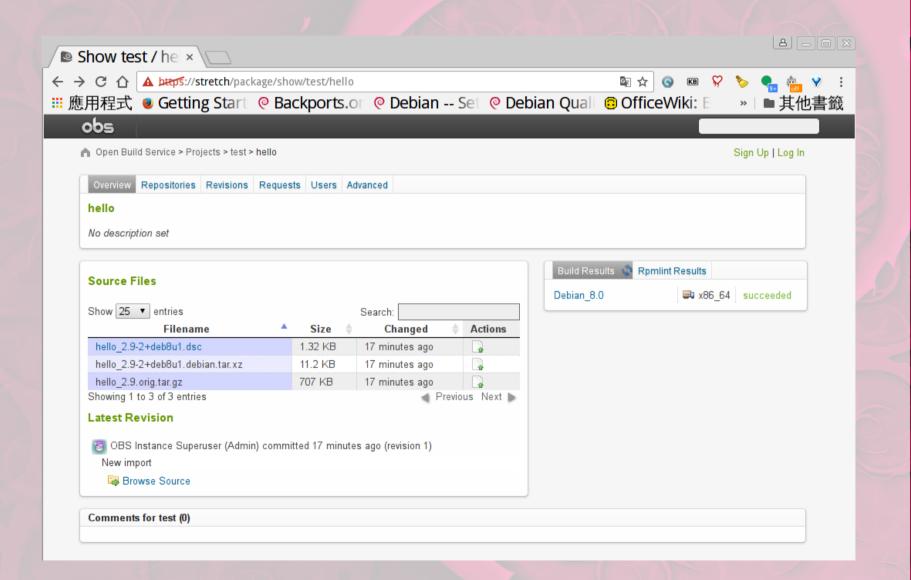
- Basic setup to use obs to build your own packages.
- Setup Download on Demand repository
- Setup a test project
- Import hello package











- Install obs from debian.
- Basic setup to use obs to build your own packages.
- Multiple users collaborative work.



Credits & License

- Content by Andrew Lee 李健秋
 <andrew.lee@collabora.co.uk>
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