

OBS

Linaro Open Build Service

To build packages for generic Linux distributions (Debian, Ubuntu, Fedora, CentOS, OpenSUSE) Linaro is now moving to [Open Build Service](#) created by SuSE. Typically it's known as OBS.

Building to overlays from ci.linaro.org

In case you have used ci.linaro.org for building Debian or rpm packages, using the build-package and build-rpm jobs, similar OBS jobs have been added. For DEB packages use:

<https://ci.linaro.org/job/build-package-obs/>

Similar to the existing build-package job. Previously you would use parameters "linaro-overlay" and "stretch". In OBS you would target "linaro-overlay-stretch" to get your packages to <https://obs.linaro.org/project/show/linaro-overlay-stretch>.

And for RPM packages use:

<https://ci.linaro.org/job/build-rpm-obs/>

To observe and follow the build results, you can go to <https://obs.linaro.org/> and select your recently submitted package from the "latest updates tag". Alternatively you can construct the URL to your build with <https://obs.linaro.org/package/show/REPOSITORY/PACKAGE>

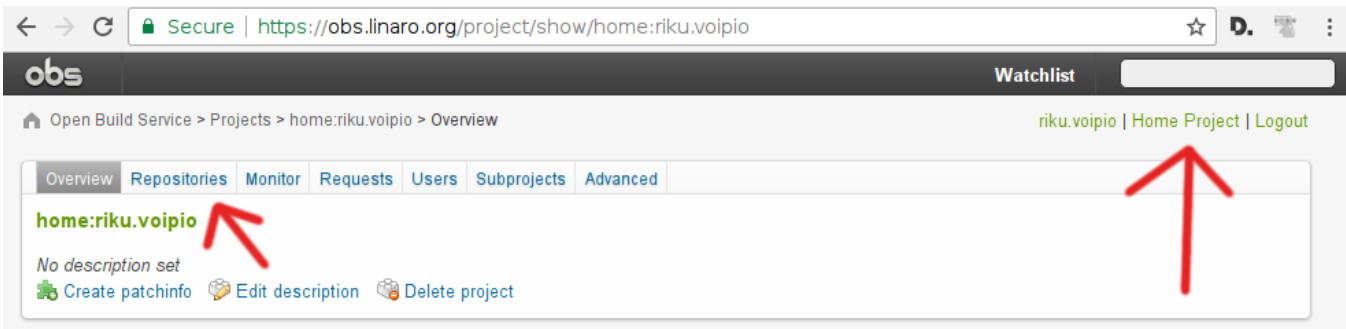
Using OBS directly

If you want PPA style personal or project specific repositories, you will need to create a OBS account.

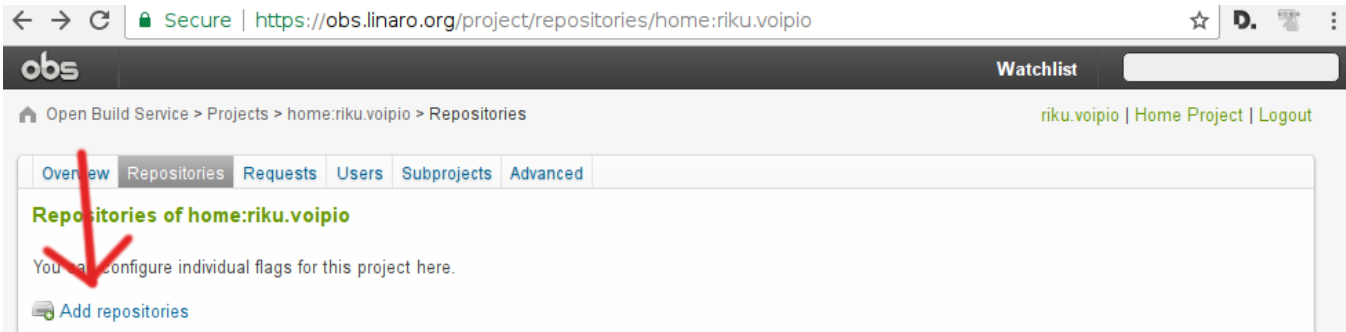
- Log in using firstname.lastname part of your Linaro account at <https://obs.linaro.org/> to create your OBS home

The screenshot shows the OBS website interface. At the top, the browser address bar displays 'Secure | https://obs.linaro.org'. The OBS logo is in the top left, and a 'Log In' link is in the top right, highlighted with a red arrow. The main content area is titled 'Welcome to Open Build Service' and contains several paragraphs of text. Below the text are three icons: 'All Projects', 'Search', and 'Status Monitor'. On the right side, there are two widgets: 'Announcements' and 'Latest Updates'. The 'Announcements' widget shows a message from 'Admin' written 3 days ago, with a link to 'https://wiki.linaro.org/OBS for instructions'. The 'Latest Updates' widget shows a list of packages and their update times: 'qemu' (1 day ago), 'OBS' (3 days ago), 'hello' (3 days ago), 'mozjs24' (3 days ago), 'systemd' (5 days ago), and 'qemu' (5 days ago).

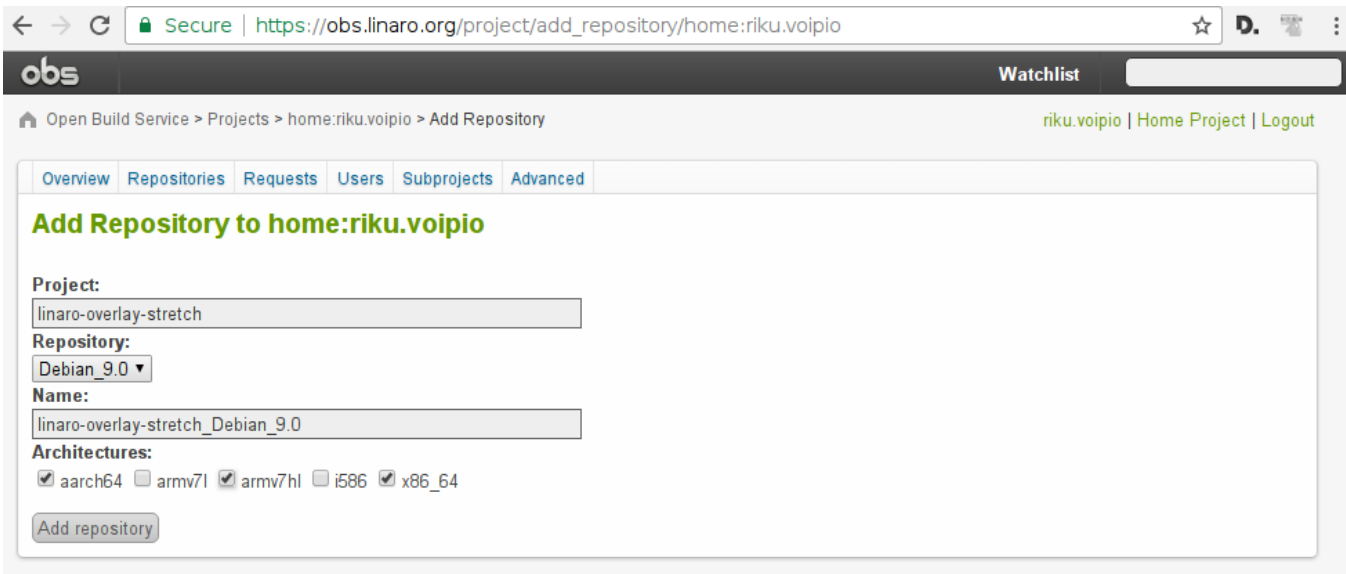
- Choose the project to build packages against in your home project:
 1. Select "home project" from top right



1. Select repositories and click on "add repository"



1. Type linaro-overlay-stretch into project
2. Select only the architectures you need from Armv7hl, aarch64 and x64_64.



1. Click on add repository
2. Observe the builds getting scheduled
 - Install "Open Build Service commander", aka "osc"
 - apt install osc
 - set skeleton \$HOME/.oscrc:

```
[general]
apiurl = https://obs.linaro.org
use_keyring = 1
```

- run "osc ls" and enter same firstname.lastname and your Linaro password.
 - Notice that if you don't use use gnome or kde, you will need to remove the "use_keyring" bit or find your own way to provide a safe keyring for your password.

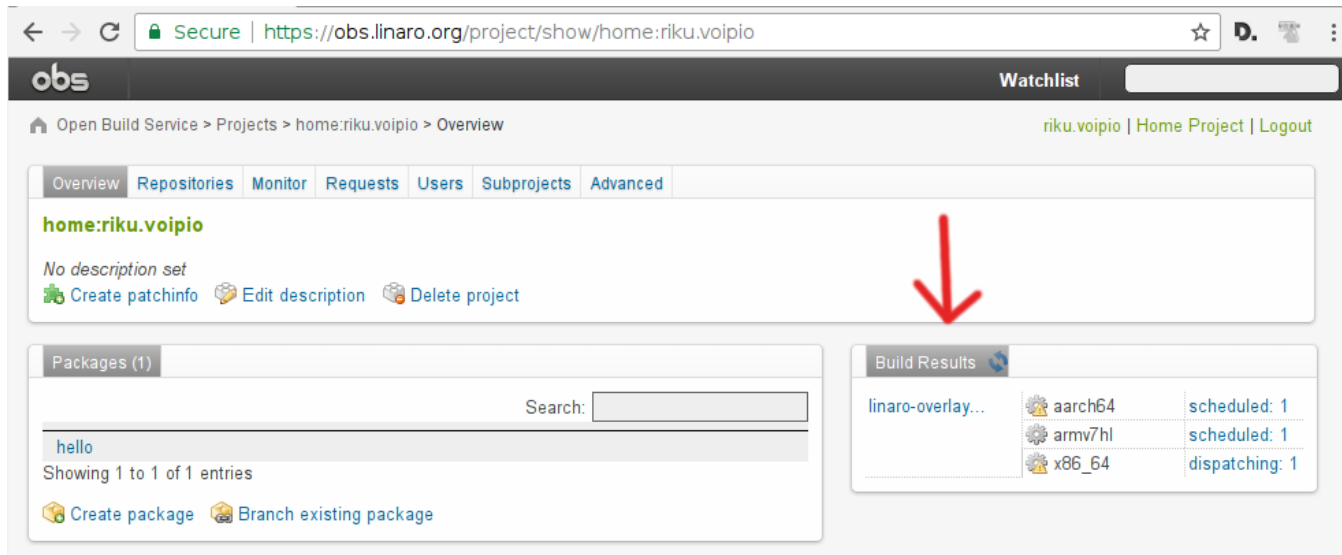
- check out your home project:

```
osc co home:firstname.lastname
```

- Include your first package:

```
cd home:firstname.lastname
mkdir hello
cd hello
apt-get source -d hello
osc add .
osc ci -m "initial import"
```

- Now back in the web browser, observe the package hello being scheduled for builds



- If you want submit packages to OBS via jenkins, you need to add user "jenkins" to the maintainers of your project.
- You can create subprojects under your home project to have multiple repos for different uses
- If you need new toplevel project, submit a ticket at <https://projects.linaro.org/servicedesk/CTT/>

Building software locally with OSC

Sometimes it's more convenient to run builds locally before uploading to obs builders. The osc tool allows with with "osc build" command. In a typical workflow, you have an unpacked source tree. Update debian/changelog if needed and store source package

```
dpkg-buildpackage -rfakeroot -S -d
cd ..
```

If you changed package version, remove the old .dsc file, and add the new one

```
osc rm packagename_oldversion.dsc
osc add packagename_newversion.dsc
osc build -j`nproc`
```

Once you pass a successful build, you commit the changes to push them to server

```
osc commit
```

Using repositories created by OBS

The built packages get uploaded to <http://obs.linaro.org/PROJECT/REPOSITORY/>

Install the Linaro repository key from:

```
wget -O - http://obs.linaro.org/linaro-overlay-stretch/Debian_9.0/Release.key|sudo apt-key add -
```

To add an Debian repository, create /etc/apt/sources.list.d/linaro-obs.list

```
deb http://obs.linaro.org/linaro-overlay-stretch/Debian_9.0/ ./
```

Home projects are under:

<http://obs.linaro.org/home/>