

Making a package in a PPA

Hey Chris,

This is how to create a PPA, make a minor package change, build a package, and upload to a PPA.

1. Useful env vars:

```
export GPGKEY=0DCDF806
export EDITOR=/usr/bin/vim
export DEBFULLNAME="Corey Bryant"
export DEBEMAIL="corey.bryant@canonical.com"
export QUILT_PATCHES=debian/patches
```

2. Go to your launchpad page (e.g. <https://launchpad.net/~chris.macnaughton>) and click "Create a new PPA".
3. If working with bionic (queens by default), no changes are needed for your PPA dependencies. If working with xenial-queens (cloud archive) you'll need to "Edit PPA dependencies" and make your PPA depend on queens-staging. You may be able to get hints from <https://launchpad.net/~corey.bryant/+archive/ubuntu/xenial-queens>.
4. Clone package source: `git clone https://git.launchpad.net/~ubuntu-server-dev/ubuntu/+source/keystone`; `cd keystone`; `git checkout stable/queens`
5. `ls debian` # the debian directory is where all package customization occurs
 - poke around and see what's there
 - maybe cherry-pick an upstream patch to `debian/patches`
6. `dch -i` # make a changelog entry
7. Bonus:
 1. cherry pick a patch from the corresponding upstream branch that is not yet in the package
 2. or use quilt to create a new patch (`quilt new`; `quilt edit` ; `quilt refresh`; `quilt pop -a`)
 3. patch goes in `debian/patches`; patch name goes in `debian/patches/series`; 'git add' any new files
8. `debcommit -a`
9. `git log` # see your change?
10. `gbp buildpackage -S -sa`
11. `ppa_upload.sh --yes -d bionic --upload ppa:chris.macnaughton/bionic-rocky ../build-area/keystone*.dsc` # [1]
12. look for package building in ppa
13. install package from ppa - ie. `sudo add-apt-repository ppa:chris.macnaughton/bionic-rocky && sudo apt update && sudo apt install keystone-common`

[1] `ppa_upload.sh`

```
#!/bin/bash
#
# This script just makes it easier to upload the same package version to a PPA multiple times.
#
# ppa_upload.sh -d bionic --upload ppa:corey.bryant/bionic-queens ../build-area/keystone*.dsc

backportpackage -S ~ppa`date +%Y%m%d%H%M` $@
```

Trouble shooting:

* git build-package may fail with something like "dpkg-checkbuilddeps: error: Unmet build dependencies: apache2-dev dh-apache2 openstack-pkg-tools (>= 23~) python3-sphinx (>= 1.6.2) You will need to apt install these build dependency packages and try again. Note: look in debian/control at Build-Dependencies (that's where these are defined) and Depends are run-time dependencies

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