

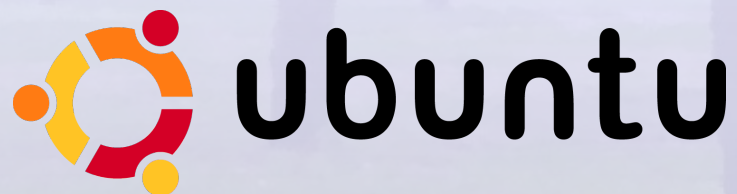
Debian/Ubuntu Packaging Workshop

A hands on guide to package maintenance

FOSS.in/2007

Baishampayan Ghose <b.ghose@ubuntu.com>

Kartik Mistry <kartik.mistry@gmail.com>



Introduction

- About us
- What we will cover today
- What we will **not** cover today

Why do packaging?

- A great way to contribute back
- Helps in learning the internals of the distro

Requirements

- Debian/Ubuntu Machine
- A good internet connection
- Ability to read a lot of docs
- A few tools
 - build-essential
 - devscripts & dh-make
 - debhelper
 - diff & patch
 - fakeroot, pbuilder or CDBS
 - gnupg
- A lot of patience!

Building Packages from Source

- apt-source
- FTBS
- dpkg-buildpackage
- A short demo ...

Simple packaging from scratch

- Obtaining the sources
- ``Debianizing'' the package
- The debian/ directory
 - changelog
 - control
 - copyright
 - rules
 - compat
 - other optional files: watch, dirs, install, etc.
- Helper tools (pbuilder & CDBS)
- Demo

Upgrading the package

- You need to do that whenever a new stable version or patches come out
 - Debian/Ubuntu revisions
 - New upstream release
- Syncing new packages back
 - Ubuntu syncs & merges
- Using the patches system
 - dpatch
 - quilt

Additional things to take care of

- Copyright
- Upstream Source
- Ubuntu specific issues
- Overall process conventions
 - reportbug, RFP, ITP, RFS
 - Using Launchpad for Ubuntu

Tools for Quality Assurance

- You need to make sure your package is built properly and follows all the conventions
 - lintian
 - linda
 - piuparts

Maintaining Packages as a team

- Package maintenance teams for large projects
 - x.org
 - kernel
- Using version control systems for packaging
 - svn-buildpackage
 - bzd-buildpackage

OK, what now?

- Becoming a Debian Maintainer
 - Getting mentors/sponsors
 - Applying for Debian Developer status
- Becoming a Ubuntu MOTU, Core Dev
 - Need to become a Ubuntu Member first
- Start contributing today!

Resources

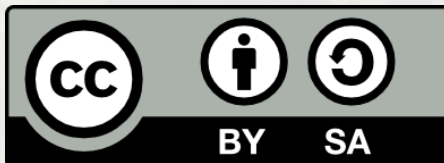
- The Debian New Maintainer Guide
- The Debian Developer Manual
- Ubuntu Packaging Guide
- ``The Debian System'' by Martin Krafft
- <http://www.debian.org/devel/>
- <https://launchpad.net/>
- <http://ubuntu-in.org>

Questions & Answers

- Feel free to ask questions

This presentation

- Is provided under Creative Commons Attribution ShareAlike License
- Uses the Kaohsiung Impress template by Chih-Hao Tsai <http://technology.chtsai.org/impress/>



Thanks for coming!