Debian Packaging Tutorial

Magic that makes "apt-get install" work

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- 1 General Installation Procedure
- 2 Packaging
- 3 Creating Debian Package Steps



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From Source

- Download the source from upstream
- Read the installation instructions
- ► Hunt for the pre-requisites of installing (Download Dependencies)
- ► Finally install with these commands
 - 1 ./configure
 - 2 make
 - 3 make install



From Repository

sudo apt-get install package_name



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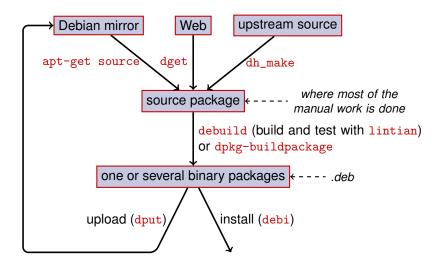


Tools of Trade

- ► A Debian (or Ubuntu) system (with root access)
- ▶ Some packages:
 - build-essential: contains basic building tools such as gcc, g++, make and mainly dpkg-dev, which contains basic Debian-specific tools to create packages
 - devscripts: contains many useful scripts for Debian maintainers
 - dh-make: tool to Debianize the upstream source easily
 - ▶ lintian: Debian package checker



General packaging workflow





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Creating Debian Package Steps

- Setting up your BASH environment
- 2 Download the upstream tarball
- 3 Rename the upstream tarball
- 4 Unpack the upstream tarball
- 6 Add the Debian packaging files
- 6 Build the package
- Check for errors
- Install the package
- If everything is working as expected upload it to mentors.debian.net



Step 1: Setting up your BASH environment

Add the following lines to /.bashrc [replace the values with Your full name and email address]

```
DEBEMAIL="abdulkarimmemon@gmail.com"
DEBFULLNAME="AbdulKarim Memon"
export $DEBFULLNAME $DEBEMAIL
```



Step 2: Download upstream tarball

```
$ mkdir ~/packaging
$ cd ~/packaging
$ wget http://download.savannah.gnu.org/releases/smc/
    hyphenation/patterns/hyphen-as-0.7.0.tar.bz2
```

