

Debian Package Builder Plugin

Plugin Information

View Debian Package Builder on the [plugin site](#) for more information.

This plugin helps building debian (.deb) packages

Cloudbees link: <https://jenkins.ci.cloudbees.com/job/plugins/job/debian-package-builder-plugin/>

Screenshot

Build

Build debian package
Path to 'debian' catalog:

Generate changelog?
Build automatically even if there are no changes in the package

Post-build Actions

Publish debian packages
Repository to upload:

Commit changes made to package back to SCM
Commit message:

Basic usage

Components

Installing this plugin contributes following:

- **Build debian package** build step
- **Publish debian packages** post-build step
- **Debian package builder** section in the global configuration
- **Debian package publisher** section in the global configuration

Configuration

The plugin uses global GPG key to build and sign .deb packages. It is configured in the **Debian package builder** section of the global configuration. The parameter names are pretty much self-descriptive:

Debian Package Builder

Account of GPG key:

Public GPG key:
-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: GnuPG v1.4.11 (GNU/Linux)

mQENBFArZmEBCAC6zPJ1IWm+qUTx1HJdxvikBw/A8fIUuZ1eVaKt0wLTLBvIfw2y

SNIP

Private GPG key:
-----BEGIN PGP PRIVATE KEY BLOCK-----
Version: GnuPG v1.4.11 (GNU/Linux)

lQQ+BFArZmEBCAC6zPJ1IWm+qUTx1HJdxvikBw/A8fIUuZ1eVaKt0wLTLBvIfw2y

SNIP

GPG passphrase:

Debian package publisher section configures available debian repositories to publish packages to:

Debian Package Publisher
Repositories
name
method ⓘ
fqdn
incoming
login

The **Advanced** section configures SSH key to be used with SCPB method and extra SSH options (like `-o StrictHostKeyChecking=no`)

Building

The **Build debian package** step has a main configuration parameter "Path to 'debian' catalog" that should point to a catalog that contains **debian** catalog.

For example, if checkout has structure like `$WORKSPACE/myproject/util/debian/` you should use `myproject/util` as a configuration value.

By default, the build step will install all the requirements on its own, use **pbuilder-satisfy-depends** to install build-deps of a package and then use **debuild** to actually build package.

The package **.deb** will be added as a build artifact and badge with a version per package built will be applied to the build:

 Build History	(trend)
 #25 Oct 22, 2012 10:19:11 PM	deb 0.18.r85053
 #24 Oct 19, 2012 9:28:16 PM	deb 0.17.r84948
 #23 Oct 19, 2012 11:18:54 AM	deb 0.16.r84873
 #22 Oct 18, 2012 6:18:30 PM	deb 0.15.r84852

Publishing

The **Publish debian packages** post-build step uses **debrelease** to publish package and according `.changes` to the selected repository. The **dupload.conf** will be automatically generated with configured GPG account data and used keys.

Automatic version manipulation

Plugin is capable of automatically starting new package version upon build, recording recent changes and committing it back to SCM.

However, the only supported SCM so far is Subversion due to the absence of commit capabilities in Jenkins SCM core classes.

To use it, check the "Generate changelog" box on the build step and "Commit changes back to repository" on the post-build step.

Upon build, it will:

- start a new version, increasing last numeric component of version by 1 – i.e. version **1.2.8** will become **1.2.9**;
- if SCM is SVN, append revision number to the version number in form of '1.2.r12345', where 12345 is the revision;
- record all the changes – from SVN revision history, starting from last recorded revision, or from Jenkins build history – to **debian/changelog** of a new version via **dch**;

To better handle failed builds, use 'Checkout fresh copy' SVN option (or similar for other SCM).

Known issues

Spaces in path

In versions prior to 1.3 there were issues with spaces in path, causing all kinds of errors. Problems in the plugin itself are fixed, however there are certain troubles in the debian build systems themselves, namely CDBS. See this issue on debian.org: <http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=306941>.

Changelog

Version 1.6.6 (Dec 26, 2014)

Thanks to the <https://github.com/roadrunner2> for PR

- Fix race and leak (pr #35)

Version 1.6.5 (Nov 06, 2014)

- Expand variables in pathToDebian (pr #34)

Version 1.6.2 (Aug 13, 2014)

- Preserve **distribution** of package when starting new version

Version 1.6.1 (Aug 11, 2014)

Thanks to the <https://github.com/itlGO> and <https://github.com/guilhem> for PR

- Put dupload config in home directory (pr #23)
- Remove **--distributor** from **dch** invocation (pr #18)
- Make gpg-signing optional (pr #15)
- Switch to 1.509.4 LTS (pr #16)

Version 1.6.0 (May 16, 2014)

Thanks to the <https://github.com/itlGO> for PR

- Fix/tweak changelog generation for git
- Allow specifying explicitly new version for package

Version 1.5.7 (May 14, 2014)

Thanks to the <https://github.com/raizdepi> and <https://github.com/jacksoncage> for PRs

- Fix **git commit** in case of subdirectory checkouts
- Add **-y** to all **apt-get install** commands
- Various internal improvements and docs

Version 1.5.3 (January 17, 2014)

Thanks to the <https://github.com/itlGO> for PRs

- Expanding environmental variables in DebianPackagePublisher's commitMessage
- Exporting source package name to the build's environment variables

Version 1.5.2 (August 8, 2013)

- Minor bugfix in git support

Version 1.5.1 (August 8, 2013)

- Minimal support for git is introduced. *Commit changes back to SCM* now commits **debian/changelog** to the local git repository in order to allow **Git publisher** to push the branch to the origin.

Version 1.4.2 (March 21, 2013)

- Minor fix to work with parametrized SVN URLs

Version 1.4 (Nov 7, 2012)

- Minor fix to add '--no-tgz-check' rebuild param

Version 1.3 (Oct 26, 2012)

- Minor fixes to allow spaces in workspace path

Version 1.2 (Oct 22, 2012)

- Initial version