

NAME

repomaster – Repository Master

SYNOPSIS

```
repomaster -<--OPTION> [FOLDER|DEBNAME|DISTNAME|USERNAME@URL/DIST-NAME|ADD|REMOVE]
```

DESCRIPTION

repomaster - Packaging, repository and error control tool.

FEATURES

Repomaster has many innovative characteristics to automate the building of debs to be Lintian error free. It has advanced scanning features to set proper permissions and a fix function to scan for errors and auto correct them. I have ran this tool on a folder with 13 GB of debs; prior to running the tool a total of 136,435 errors and warnings. After running the tool 1,323. Repomaster is not perfect yet, but is going in the right direction. The numbers continue to diminish.

COMMAND SWITCH USAGE

Every 'flag' option has a 'no-flag' counterpart with exception of help. Specifying no switch is the same as using the `--help` switch.

If an option or flag is marked as [XXX], it is optional. Options specified with <XXX> are required. They will only work in combination with the XXX option. Example: `repomaster --service`

Will not work because the format is [OPTION] <on|off> in this case `--service` is the [OPTION] which is required as per Synopsis above. No <required> switch was provided. IE `repomaster --service on` which is actually case sensitive the | separator signifies either, but not both. On the other hand `repomaster --extract` is just fine without providing a secondary switch. Please see below for switch requirements and descriptions.

OPTIONS

Version

-v , --version

Display repomaster's version number.

Help

-h , --help

Shows help.

Build

-b , --build [FOLDER]

Builds specified deb. Specifying no folder name will build all debs in current directory; prompting what will be built. All error free debs are moved to a hidden sub-folder called `.debs/` in the current folder. Per session logging of individual errors to [FOLDER].deb.errors and globally to `all_errors.txt` for quick review these logs are removed with the `-clean` switch see below. Full logging is sent to `/log/repomaster_errors.log`.

Extract

-e , --extract [DEB]

Extracts specified [DEB]. Specifying no deb filename will extract all debs in current directory; prompting which debs will be extracted.

Relaxation

-r , --relax [FOLDER]

Will relax the permissions on a given [FOLDER] allowing you to edit or delete files within the folder. The proper permissions will automatically be reset when you use the build switch. *Warning: Not specifying a folder will reset permissions on all sub-folders.* Please use care where you execute this tool. Repomaster will display the folders to be effected and prompt you prior to doing anything.

Clean

-c , --clean [FOLDER]

Will erase specified [FOLDER] ignoring permissions. *Warning: Specifying no folder name will erase all sub-folders in the current folder.* Please use care. Repomaster will prompt you of folders to be effected. It will also erase all previous build and error logs.

Fix

-f , --fix [FOLDER]

Will attempt to fix all errors in the specified [FOLDER] to be Lintian / Debian error free and complaint to Debian standards. Specifying no folder name will process all folders with a [FOLDER].deb.errors that were generated by the build switch. This will take a long time to be 100% implemented.

Prepare

-p , --prepare <DISTNAME>

Prepares known good .debs/ for publishing. Builds the directory structure in a folder called <DISTNAME>. Repomaster then GPG key signs the debs as well as the release key for distribution. This command switch also auto generates packages.gz for repository management. Knowledge of how a repository works is highly recommended when using this command switch. Please man gpg for more information on key signing.

Publish

-P , --publish <USERNAME:[PASSWORD]@URL/DISTNAME> Will publish known good debs to remote address of your specification. Repomaster will upload all files processed by the prepare switch associated smartly. It will compare files on the remote server to local host and only update appropriately, furthermore by architecture. A future version will allow multiple distributions to be handled. The password is [optional] as ssh will prompt for it prior to engaging rsync. Please see man ssh for more information on how the command is passed. Knowledge of how a repository works is highly recommended when using this command switch.

Service

-s , --service <on|off> [--autofix]

Installs or removes based on second option to set repomaster as a service. Repomaster will monitor any package being installed and scan for errors and warnings optionally <--autofix> fixing them via end users discretion. This powerful feature allows the end user to make the decision if or not errors and warnings enter their system prior to the package even being installed. Similar to what anti-virus software does.

Scan

-s , --scan

Version scans all debs to be processed. This should be the first step you take when dealing with large amounts of debs. When processing a single deb this switch is useless. There is no sense in building 2 seperate versions of debs. On the large scale this is not a required , but recommended base of first action.

Verbose

-V , --verbose [FOLDER]

Initiates verbose mode. Invokes Lintian to verbosely report errors and gives instructions on how to fix them. If I see this project all the way through this switch may be come unnecessary, time will tell.

PUBLISHING NOTES

Specifying the -p prepare or the -P publish switch I felt I should take the time to document. Most people will not be interested in either switch unless they intend to run a repository on-line or locally. Time permitting, I will either write a on-line document and link here or elaborate more in this section of the man page.

EXAMPLES OF REPOMASTER USAGE

TYPICAL USAGE IN ORDER

1. Scanning of deb(s) to ensure newest version (sometimes unnecessary)
2. Extraction of the deb(s)
3. Re-building of the deb(s) to obtain the error(s) and warning(s)
4. Scanning and fixing of errors(s) and warning(s)
5. Goto #3 until error(s) and warning(s) = 0

Repository maintainers will do the above followed by:

5. Prepare switch followed by repository name
6. Publish switch followed by remote address

EXAMPLES

Extract a deb:

```
repomaster -e ultamatix-1.9.3_all.deb
```

Re-build the deb:

```
repomaster -b ultamatix-1.9.3_all/
```

Fix errors:

```
repomaster -f ultamatix-1.9.3_all/
```

Extract all debs in your current folder into their own sub-folder:

```
repomaster -e
```

Prepare known good debs:

```
repomaster -p themes
```

Publish known good debs to remote server:

```
repomaster -P USERNAME:[PASSWORD]@Http://themelinux.com/themes/ themes
```

Service with autofix option:

```
repomaster -S on --autofix
```

FILES

/bin/repomaster

Software for extraction, packaging and maintaining a repository.

/bin/scanpackages

Software for obtaining version information.

/usr/share/man/man1/repomaster.1.gz

The Repository Master manual (this manual)

~/gnome2/nautilus-scripts/RepoMaster/Extract Deb

GUI - Zenity based nautilus script front-end for extracting debs.

~/gnome2/nautilus-scripts/RepoMaster/Build Deb

GUI - Zenity based nautilus script front-end for building debs to the repomaster

~/gnome2/nautilus-scripts/RepoMaster/repomaster

GUI - Zenity based nautilus script front-end command switchable to repomaster.

SEE ALSO

gpg(1), rsync(1), ssh(1), lintian(1)

The full documentation for this tool is maintained as a Tex-info manual. If repomaster and the info program are properly installed at your site, the command

```
info repomaster
```

should give you access to the complete manual including a menu structure and an index.

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BUGS

GNU repomaster home page: <[Http://www.ultimateedition.info/](http://www.ultimateedition.info/)>. E-mail bug reports to: <theemahn@ultimateedition.info>. Be sure to include the word repomaster somewhere in the Subject: field."

AUTHOR

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A MESSAGE FROM THE AUTHOR

Who reads these man pages anyways? The entire purpose for me taking on this project is so I could lose a few of my jobs. Repository management and a few programming tasks in which it currently automates. I would love nothing more than to say my goal is for repomaster to function to the point where 0 errors and 0 warnings get through. Time however, is not and has never been on my side. I have a slew of other projects going on and I am but one Mahn. I hope you enjoy the software. Feel free to send me a beer.

This man page was written and is maintained by TheeMahn, it too has been "Repomastered" Lintian error free you can count on it ;)