
ebuildtester Documentation

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This script is a tool to test a Gentoo ebuild and its dependencies. The idea is that the package is emerged in a clean (and current) stage3 Docker container.

CHAPTER 1

Requirements

You require **Docker** and **FUSE**. Docker must be configured to use the **devicemapper** storage driver. This can be achieved with the following inside `/etc/docker/daemon.json`:

```
{  
  "storage-driver": "devicemapper"  
}
```


CHAPTER 2

Usage

We are going to assume that the user has a local git clone of the portage tree in

```
/usr/local/git/gentoo
```

We have added a new ebuild and would like to verify that the build dependencies are all correct. We can build the package (ATOM) with:

```
ebuildtester --portage-dir /usr/local/git/gentoo \  
  --atom ATOM \  
  --use USE1 USE2
```

where we have specified two USE flags, USE1 and USE2. The *ebuildtester* command will now create a docker container and start installing the ATOM. All specified dependencies will be installed as well.

CHAPTER 3

Command line arguments

The command understands the following command line arguments:

```
usage: ebuildtester [-h] [--version] [--atom ATOM [ATOM ...]] [--live-ebuild] [--
↪manual] --portage-dir PORTAGE_DIR [--overlay-dir OVERLAY_DIR] [--update] [--install-
↪basic-packages] [--threads N]
                        [--use USE [USE ...]] [--global-use GLOBAL_USE [GLOBAL_USE ...]]
↪[--unmask ATOM] [--unstable] [--gcc-version VER] [--python-single-target PYTHON_
↪SINGLE_TARGET]
                        [--python-targets PYTHON_TARGETS] [--rm] [--pull] [--storage-opt
↪STORAGE_OPT [STORAGE_OPT ...]] [--with-X] [--with-vnc]
                        [--profile {default/linux/amd64/17.1,default/linux/amd64/17.1/
↪systemd}]
```

A dockerized approach to test a Gentoo package within a clean stage3.

optional arguments:

-h, --help	show this help message and exit
--version	show program's version number and exit
--atom ATOM [ATOM ...]	
	The package atom(s) to install
--live-ebuild	Unmask the live ebuild of the atom
--manual	Install package manually
--portage-dir PORTAGE_DIR	
	The local portage directory
--overlay-dir OVERLAY_DIR	
	Add overlay dir (can be used multiple times)
--update	Update container before installing atom
--install-basic-packages	
	Install basic packages after container starts
--threads N	Use N (default 8) threads to build packages
--use USE [USE ...]	The use flags for the atom
--global-use GLOBAL_USE [GLOBAL_USE ...]	
	Set global USE flag
--unmask ATOM	Unmask atom (can be used multiple times)

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```
--unstable           Globally 'unstable' system, i.e. ~amd64
--gcc-version VER     Use gcc version VER
--python-single-target PYTHON_SINGLE_TARGET
                     Specify a PYTHON_SINGLE_TARGET
--python-targets PYTHON_TARGETS
                     Specify a PYTHON_TARGETS
--rm                 Remove container after session is done
--pull               Download latest 'gentoo/stage3-amd64' docker image
--storage-opt STORAGE_OPT [STORAGE_OPT ...]
                     Storage driver options for all volumes (same as Docker param)
--with-X             Globally enable the X USE flag
--with-vnc           Install VNC server to test graphical applications
--profile {default/linux/amd64/17.1,default/linux/amd64/17.1/systemd}
                     The profile to use
```