Distroverify

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`distroverify` is a utility to verify any linux distro file (*.iso) for its integrity and primarily intended towards distro hoppers and linux newbies. When you download a distro iso file from the internet (such as `ubuntu-mate-19.04-desktop-amd64.iso`), you may never know if it may have been tampered with en-route or even on the server itself.

To be sure, you have to download a checksum file (usually `sha1` or `sha256`) to ensure that the checksum matches with the distro file's checksum calculated at your end. This tool does exactly that, it takes care of the hassle for scavenging for the checksum file's download link and run a checksum utility like sha1sum or sha256sum. It automates this whole process for you in a single program!

CHAPTER 1

Supported Distros

The following distros are supported so far and the list keeps growing. It all depends on whether or not the distros maintain a standard convention in naming their urls for hashes.

- **Supported distros:**
  - Ubuntu - All family (except `ubuntu-server` because they no longer provide checksums for older versions)
  - Debian (Live & DVD)
  - Linux Mint
  - OpenSUSE LEAP
  - Fedora (Live & netinst)

CHAPTER 2

Installation

`distroverify` can be installed with python's standard package manager, `pip`:

```
pip install distroverify
```

CHAPTER 3

Usage

To use `distroverify`, simply run the command with the iso filename as argument:

```
> distroverify ubuntu-mate-16.04.5-desktop-amd64.iso
Distro Verify version 1.0.1
Utility to verify any linux distro file (*.iso) for its integrity

match success:  ubuntu-mate
verification url: http://cdimage.ubuntu.com/ubuntu-mate/releases/16.04.5/release/
↪SHA1SUMS
calculating hash...
done
response hash: 2ace65436195d122b8ce0cfc106728c2922dd350
calculated hash: 2ace65436195d122b8ce0cfc106728c2922dd350
match:  True
```

CHAPTER 4

Notes

You shouldn't change the name of the iso file because this tool uses regular expressions to match them and then look up its hash on the corresponding distro's URL.

CHAPTER 5

Indices and tables

- genindex
- modindex
- search