

Hosting your own simple repository

If you wish to host your own simple repository [\[1\]](#), you can either use a software package like [devpi](#) or you can simply create the proper directory structure and use any web server that can serve static files and generate an autoindex.

In either case, since you'll be hosting a repository that is likely not in your user's default repositories, you should instruct them in your project's description to configure their installer appropriately. For example with pip:

[Unix/macOS](#) [Windows](#)

```
python3 -m pip install --extra-index-url https://python.example.com/ foobar
```

In addition, it is **highly** recommended that you serve your repository with valid HTTPS. At this time, the security of your user's installations depends on all repositories using a valid HTTPS setup.

“Manual” repository

The directory layout is fairly simple, within a root directory you need to create a directory for each project. This directory should be the [normalized name](#) of the project. Within each of these directories simply place each of the downloadable files. If you have the projects “Foo” (with the versions 1.0 and 2.0) and “bar” (with the version 0.1) You should end up with a structure that looks like:

```
.
├── bar
│   └── bar-0.1.tar.gz
└── foo
    ├── Foo-1.0.tar.gz
    └── Foo-2.0.tar.gz
```

Once you have this layout, simply configure your webserver to serve the root directory with autoindex enabled. For an example using the built in Web server in [Twisted](#), you would simply run `twistd -n web --path .` and then instruct users to add the URL to their installer's configuration.

Existing projects

Project	Package upload	PyPI fall-through ^[2]	Additional notes
devpi	✓	✓	multiple indexes with inheritance, with syncing, replication, fail-over; mirroring
simpleindex		✓	
pypiserver	✓		
pypiprivate			
PyPI Cloud			unmaintained; also cached proxying; authentication, authorisation
pywharf			unmaintained; serve files in GitHub
Pulp-python	✓		also mirroring, proxying; plugin for Pulp
pip2pi			also mirroring; manual synchronisation
dumb-pypi			not a server, but a static file site generator
http.server			standard-library
Apache		✓	using mod_rewrite and mod_cache_disk , you can cache requests to package indexes through an Apache server

[1] For complete documentation of the simple repository protocol, see [simple repository API](#).

[2] Can be configured to fall back to PyPI (or another package index) if a requested package is missing.



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