
dataflake.wsgi.werkzeug

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This package provides a PasteDeploy-compatible entry point to easily integrate the [werkzeug WSGI server](#) into an environment that uses PasteDeploy-style `.ini` files to compose a WSGI application.

A second entry point will enable the `werkzeug` debugger, so you get nice clickable tracebacks with the ability to open a console prompt at any point in the stack. The debugger is [explained in the `werkzeug` documentation](#) and **should never be running in production**.

It also includes a script to create a basic WSGI configuration file for Zope, similar to Zope's own `mkwsgiinstance`, but specifying `werkzeug` instead of `waitress` as WSGI server.

NARRATIVE DOCUMENTATION

Narrative documentation explaining how to use `dataflake.wsgi.werkzeug`.

1.1 Installation

1.1.1 Install with pip

```
$ pip install dataflake.wsgi.werkzeug
```

1.1.2 Install with `zc.buildout`

Just add `dataflake.wsgi.werkzeug` to the `eggs` setting(s) in your buildout configuration to have it pulled in automatically:

```
...  
eggs =  
    dataflake.wsgi.werkzeug  
...
```

1.2 Using this package

1.2.1 Using the PasteDeploy entry point

You can use the PasteDeploy entry point in your WSGI configuration file to define a `werkzeug` server:

```
[server:main]  
use = egg:dataflake.wsgi.werkzeug#main  
host = 127.0.0.1  
port = 8080
```

If you leave out the `host` specification, `werkzeug` will listen on all IPv4 interfaces (`0.0.0.0`). The default port, if none is given, is 8080.

`werkzeug` supports a wide range of configuration options that you can pass as part of your WSGI configuration. They are listed in the [werkzeug documentation](#).

1.2.2 Creating a basic WSGI configuration for Zope

This package defines a console script named `mkwerkzeuginstance` that works just like Zope's own `mkwsgiinstance`. It will ask you for a location, a username and a password to create a basic Zope instance home with a WSGI configuration, in this case it will be `werkzeug`-based as opposed to Zope's default, `waitress`.

Note: Just like `mkwsgiinstance`, the script will not overwrite an existing WSGI configuration file at `etc/zope.ini`. You need to move the existing file to the side to get a fresh configuration.

```
$ bin/mkwerkzeuginstance
Please choose a directory in which you'd like to install
Zope "instance home" files such as database files, configuration
files, etc.

Directory: .
Please choose a username and password for the initial user.
These will be the credentials you use to initially manage
your new Zope instance.

Username: admin
Password: (enter password)
Verify password: (re-enter password)
```

1.2.3 Using the `werkzeug` debugger

This package has a second entry point to enable the `werkzeug` debugger.

Warning: Do not enable the `werkzeug` debugger in production! Any site visitor may execute Python code on your server using the debugger console!

```
[server:main]
use = egg:dataflake.wsgi.werkzeug#debugger
host = 127.0.0.1
port = 8080
```

In the `[server]` section, you can combine the `werkzeug` server options and the `werkzeug` debugger options

The debugger will present you with a nice exception traceback display in the browser and the ability to open a console prompt at any point in the traceback call stack. This is great for developers, but **dangerous if exposed to the wider Internet**, so never leave this enabled on a production site.

1.3 Development

1.3.1 Bug tracker

For bug reports, suggestions or questions please use the GitHub issue tracker at <https://github.com/dataflake/dataflake.wsgi.werkzeug/issues>.

1.3.2 Getting the source code

The source code is maintained on GitHub. To check out the main branch:

```
$ git clone https://github.com/dataflake/dataflake.wsgi.werkzeug.git
```

You can also browse the code online at <https://github.com/dataflake/dataflake.wsgi.werkzeug>

1.3.3 Preparing the development sandbox

The following steps only need to be done once to install all the tools and scripts needed for building, packaging and testing. First, create a Virtual environment. The example here uses Python 3.11, but any Python version supported by this package will work. Then install all the required tools:

```
$ cd dataflake.wsgi.werkzeug
$ python3.11 -m venv .
$ bin/pip install -U pip wheel
$ bin/pip install -U setuptools zc.buildout tox twine
```

1.3.4 Running the tests

You can use `tox` to run the unit and integration tests in this package. The shipped `tox` configuration can run the tests for all supported platforms. You can read the entire long list of possible options on the [tox CLI interface documentation page](#), but the following examples will get you started:

```
$ bin/tox -l      # List all available environments
$ bin/tox -pall   # Run tests for all environments in parallel
$ bin/tox -epy311 # Run tests on Python 3.11 only
$ bin/tox -elint  # Run package sanity checks and lint the code
```

1.3.5 Building the documentation

`tox` is also used to build the Sphinx-based documentation. The input files are in the `docs` subfolder and the documentation build step will compile them to HTML. The output is stored in `docs/_build/html/`:

```
$ bin/tox -edocs
```

If the documentation contains doctests they are run as well.

1.4 Changelog

1.4.1 2.1 (unreleased)

1.4.2 2.0 (2023-02-02)

- Drop support for Python 2.7, 3.5, 3.6.

1.4.3 1.1 (2022-06-27)

- Added support for Python 3.9 and 3.10
- Switched to GitHub Actions for CI (#1)

1.4.4 1.0 (2019-04-24)

- Initial release

SUPPORT

If you need commercial support for this software package, please visit <https://www.zetwork.com>.

INDICES AND TABLES

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- glossary