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# hostsmgr Documentation

*Release 0.2.4*

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## hostsmgr (Hosts Manager)

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API for manage hosts file

- Free software: Apache-2.0
- Documentation: <https://hostsmgr.readthedocs.io>.

## 1.1 Features

## 1.2 Usage

```
from hostsmgr import HostsMgr
from hostsmgr.hostsmgr import guess_hosts_path
from hostsmgr.conditions import Any, All, IPAddress, Host, InlineComment

mgr = HostsMgr()

# Load system hosts file
mgr.load(guess_hosts_path())

# Save hosts to another place (Must open with text mode !)
mgr.save(open('/etc/hosts.old', 'w'))

# Save hosts to string with hosts file format
hosts_string = mgr.saves()

# Find all hosts entries that with 127.0.0.1 address
entries = mgr.find(IPAddress('127.0.0.1'))

# Find all entries that contained specific host
entries = mgr.find(Host('localhost'))
```

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```
# Find all entries that contained specified ip address and host both
entries = mgr.find(IPAddress('127.0.0.1') & Host('localhost'))

# Find all entries that contained either hosts
entries = mgr.find(Host('ip6-localhost') | Host('localhost'))

# Find all entries that contained either hosts, another method
entries = mgr.find(Any(Host('ip6-localhost'), Host('localhost'))))

# Find all entries that contained both hosts
entries = mgr.find(Host('ip6-localhost') & Host('localhost'))

# Find all entries that contained both hosts, another method
entries = mgr.find(All(Host('ip6-localhost'), Host('localhost'))))

# Find all entries that contained target inline comment
entries = mgr.find(InlineComment('THIS_IS_A_TAG'))

# Find only one entry that contained target inline comment
entries = mgr.find(InlineComment('THIS_IS_A_TAG'), at_most=1)

# Remove an entry that found by find()
mgr.remove(entry)

# Remove all hosts from hosts entries
mgr.remove_hosts(['localhost', 'ip6-localhost'])

# Remove all entries by inline comment exactly matched
mgr.remove_by_inline_comment(InlineComment('TAG_FOR_EXAMPLE'))

# Remove all entries by inline comment partial matched
mgr.remove_by_inline_comment(InlineComment('TAG_FOR_EXAMPLE', partial=True))
```

## 1.3 Credits

This package was created with [Cookiecutter](#) and the [PyPackageTemplate](#) project template.



### 2.1 Stable release

To install hostsmgr, run this command in your terminal:

```
$ pip install hostsmgr
```

This is the preferred method to install hostsmgr, as it will always install the most recent stable release.

If you don't have [pip](#) installed, this [Python installation guide](#) can guide you through the process.

### 2.2 From sources

The sources for hostsmgr can be downloaded from the [Github repo](#).

You can either clone the public repository:

```
$ git clone git://github.com/starofrainnight/hostsmgr
```

Or download the [tarball](#):

```
$ curl -OL https://github.com/starofrainnight/hostsmgr/tarball/master
```

Once you have a copy of the source, you can install it with:

```
$ python setup.py install
```



## CHAPTER 3

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### Usage

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To use hostsmgr in a project:

```
import hostsmgr
```



Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

## 4.1 Types of Contributions

### 4.1.1 Report Bugs

Report bugs at <https://github.com/starofrainnight/hostsmgr/issues>.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

### 4.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” and “help wanted” is open to whoever wants to implement it.

### 4.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with “enhancement” and “help wanted” is open to whoever wants to implement it.

### 4.1.4 Write Documentation

hostsmgr could always use more documentation, whether as part of the official hostsmgr docs, in docstrings, or even on the web in blog posts, articles, and such.

### 4.1.5 Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/starofrainnight/hostsmgr/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

## 4.2 Get Started!

Ready to contribute? Here's how to set up *hostsmgr* for local development.

1. Fork the *hostsmgr* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/hostsmgr.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv hostsmgr
$ cd hostsmgr/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 hostsmgr tests
$ python setup.py test or py.test
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

## 4.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
3. The pull request should work for Python 3.4 and 3.5. Check [https://travis-ci.org/starofrainnight/hostsmgr/pull\\_requests](https://travis-ci.org/starofrainnight/hostsmgr/pull_requests) and make sure that the tests pass for all supported Python versions.

## 4.4 Tips

To run a subset of tests:

```
$ py.test tests.test_hostsmgr
```





### 5.1 Development Lead

- Hong-She Liang <starofrainnight@gmail.com>

### 5.2 Contributors

None yet. Why not be the first?



#### 6.1 0.0.1 (2018-04-15)

- First release on PyPI.



## CHAPTER 7

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### Indices and tables

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- `modindex`
- `search`