OFFENSIVE SECURITY

Penetration Test Report for Internal Lab

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OSID: 314157



OSID: 314157 MkDocs

1.1. MkDocs

Project documentation with Markdown.

MkDocs is a **fast**, **simple** and **downright gorgeous** static site generator that's geared towards building project documentation. Documentation source files are written in Markdown, and configured with a single YAML configuration file. Start by reading the **introductory tutorial**, then check the **User Guide** for more information.

Getting Started User Guide

1.1.1. Features

1.1.1.1. Great themes available

There's a stack of good looking themes available for MkDocs. Choose between the built in themes: mkdocs and readthedocs, select one of the third-party themes listed on the MkDocs Themes wiki page, or build your own.

1.1.1.2. Easy to customize

Get your project documentation looking just the way you want it by customizing your theme and/or installing some plugins. Modify Markdown's behavior with Markdown extensions. Many configuration options are available.

1.1.1.3. Preview your site as you work

The built-in dev-server allows you to preview your documentation as you're writing it. It will even auto-reload and refresh your browser whenever you save your changes.

1.1.1.4. Host anywhere

MkDocs builds completely static HTML sites that you can host on GitHub pages, Amazon S3, or anywhere else you choose.

1.2. Getting Started with MkDocs

An introductory tutorial!

1.2.1. Installation

To install MkDocs, run the following command from the command line:

```
pip install mkdocs
```

For more details, see the Installation Guide.

1.2.2. Creating a new project

Getting started is super easy. To create a new project, run the following command from the command line:

```
mkdocs new my-project
cd my-project
```

Take a moment to review the initial project that has been created for you.

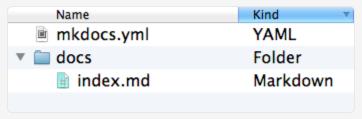


Figure 1 - The initial MkDocs layout

There's a single configuration file named mkdocs.yml, and a folder named docs that will contain your documentation source files (docs is the default value for the docs_dir configuration setting). Right now the docs folder just contains a single documentation page, named index.md.

MkDocs comes with a built-in dev-server that lets you preview your documentation as you work on it. Make sure you're in the same directory as the mkdocs.yml configuration file, and then start the server by running the mkdocs serve command:

```
$ mkdocs serve
INFO - Building documentation...
INFO - Cleaning site directory
[I 160402 15:50:43 server:271] Serving on http://127.0.0.1:8000
[I 160402 15:50:43 handlers:58] Start watching changes
[I 160402 15:50:43 handlers:60] Start detecting changes
```

Open up http://127.0.0.1:8000/ in your browser, and you'll see the default home page being displayed:

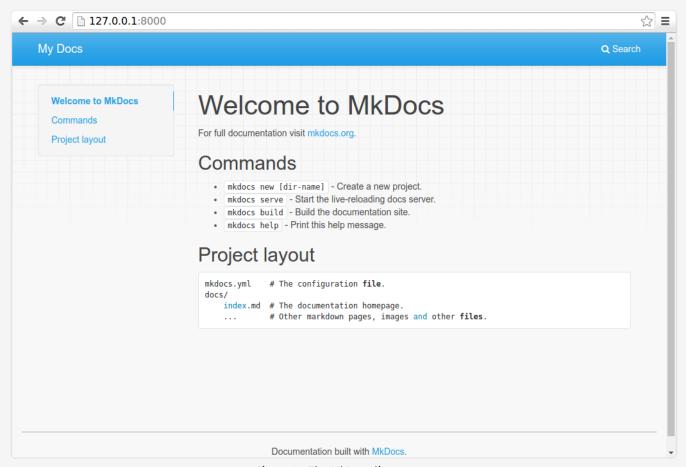


Figure 2 - The MkDocs live server

The dev-server also supports auto-reloading, and will rebuild your documentation whenever anything in the configuration file, documentation directory, or theme directory changes.

Open the docs/index.md document in your text editor of choice, change the initial heading to MkLorum, and save your changes. Your browser will auto-reload and you should see your updated documentation immediately.

Now try editing the configuration file: mkdocs.yml . Change the site_name setting to MkLorum and save the file.

```
site_name: MkLorum
site_url: https://example.com/
```

Your browser should immediately reload, and you'll see your new site name take effect.

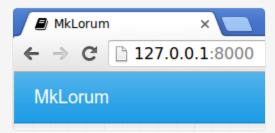


Figure 3 - The site_name setting

Note

The site_name and site_url configuration options are the only two required options in your configuration file. When you create a new project, the site_url option is assigned the placeholder value: https://example.com. If the final location is known, you can change the setting now to point to it. Or you may choose to leave it alone for now. Just be sure to edit it before you deploy your site to a production server.

1.2.3. Adding pages

Now add a second page to your documentation:

```
curl 'https://jaspervdj.be/lorem-markdownum/markdown.txt' > docs/about.md
```

As our documentation site will include some navigation headers, you may want to edit the configuration file and add some information about the order, title, and nesting of each page in the navigation header by adding a nav setting:

```
site_name: MkLorum
site_url: https://example.com/
nav:
    - Home: index.md
    - About: about.md
```

Save your changes and you'll now see a navigation bar with Home and About items on the left as well as Search, Previous, and Next items on the right.



Figure 4 - Screenshot

Try the menu items and navigate back and forth between pages. Then click on Search. A search dialog will appear, allowing you to search for any text on any page. Notice that the search results include every occurrence of the search term on the site and links directly to the section of the page in which the search term appears. You get all of that with no effort or configuration on your part!

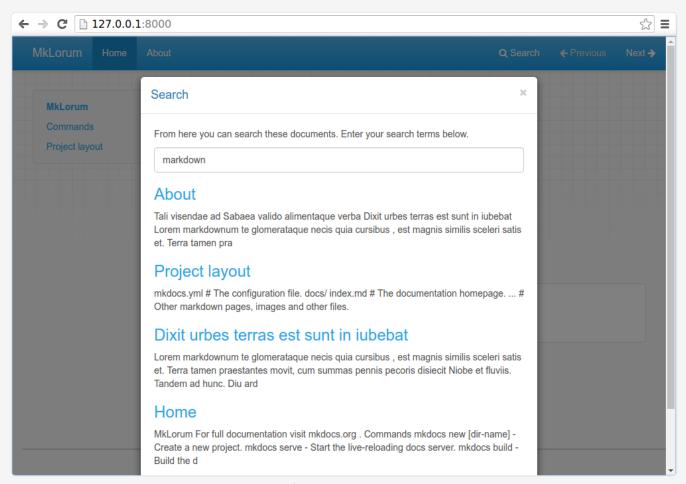


Figure 5 - Screenshot

1.2.4. Theming our documentation

Now change the configuration file to alter how the documentation is displayed by changing the theme. Edit the mkdocs.yml file and add a theme setting:

```
site_name: MkLorum
site_url: https://example.com/
nav:
    - Home: index.md
    - About: about.md
theme: readthedocs
```

Save your changes, and you'll see the ReadTheDocs theme being used.

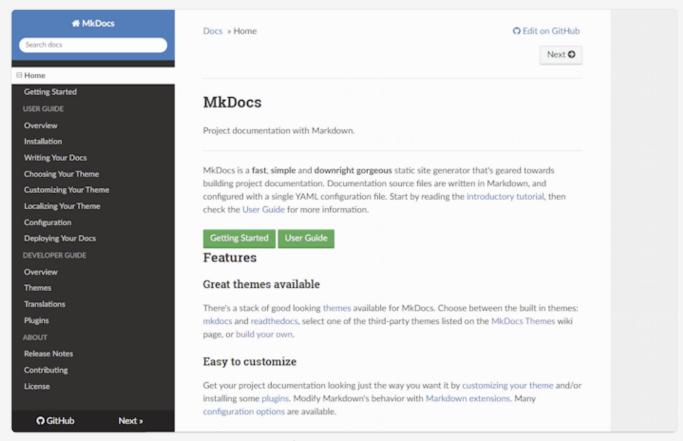


Figure 6 - Screenshot

1.2.5. Changing the Favicon Icon

By default, MkDocs uses the MkDocs favicon icon. To use a different icon, create an img subdirectory in the docs directory and copy your custom favicon.ico file to that directory. MkDocs will automatically detect and use that file as your favicon icon.

1.2.6. Building the site

That's looking good. You're ready to deploy the first pass of your MkLorum documentation. First build the documentation:

```
mkdocs build
```

This will create a new directory, named site. Take a look inside the directory:

Notice that your source documentation has been output as two HTML files named <code>index.html</code> and <code>about/index.html</code>. You also have various other media that's been copied into the <code>site</code> directory as part of the documentation theme. You even have a <code>sitemap.xml</code> file and <code>mkdocs/search_index.json</code>.

If you're using source code control such as git you probably don't want to check your documentation builds into the repository. Add a line containing site/ to your .gitignore file.

```
echo "site/" >> .gitignore
```

If you're using another source code control tool you'll want to check its documentation on how to ignore specific directories.

1.2.7. Other Commands and Options

There are various other commands and options available. For a complete list of commands, use the --help flag:

```
mkdocs --help
```

To view a list of options available on a given command, use the --help flag with that command. For example, to get a list of all options available for the build command run the following:

```
mkdocs build --help
```

1.2.8. Deploying

The documentation site that you just built only uses static files so you'll be able to host it from pretty much anywhere. Simply upload the contents of the entire site directory to wherever you're hosting your website from and you're done. For specific instructions on a number of common hosts, see the Deploying your Docs page.

1.2.9. Getting help

See the User Guide for more complete documentation of all of MkDocs' features.

To get help with MkDocs, please use the GitHub discussions or GitHub issues.

2. User Guide



User Guide User Guide

2.1. User Guide

Building Documentation with MkDocs

The MkDocs Developer Guide provides documentation for users of MkDocs. See Getting Started for an introductory tutorial. You can jump directly to a page listed below, or use the next and previous buttons in the navigation bar at the top of the page to move through the documentation in order.

- Installation
- Writing Your Docs
- Choosing Your Theme
- Customizing Your Theme
- Configuration
- Deploying Your Docs

User Guide MkDocs Installation

2.2. MkDocs Installation

A detailed guide.

2.2.1. Requirements

MkDocs requires a recent version of Python and the Python package manager, pip, to be installed on your system.

You can check if you already have these installed from the command line:

```
$ python --version
Python 3.8.2
$ pip --version
pip 20.0.2 from /usr/local/lib/python3.8/site-packages/pip (python 3.8)
```

If you already have those packages installed, you may skip down to Installing MkDocs.

2.2.1.1. Installing Python

Install Python using your package manager of choice, or by downloading an installer appropriate for your system from python.org and running it.

Note

If you are installing Python on Windows, be sure to check the box to have Python added to your PATH if the installer offers such an option (it's normally off by default).

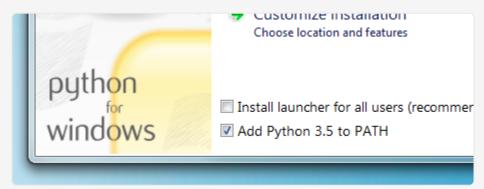


Figure 7 - Add Python to PATH

User Guide MkDocs Installation

2.2.1.2. Installing pip

If you're using a recent version of Python, the Python package manager, pip, is most likely installed by default. However, you may need to upgrade pip to the lasted version:

```
pip install --upgrade pip
```

If you need to install pip for the first time, download **get-pip.py**. Then run the following command to install it:

```
python get-pip.py
```

2.2.2. Installing MkDocs

Install the mkdocs package using pip:

```
pip install mkdocs
```

You should now have the mkdocs command installed on your system. Run mkdocs --version to check that everything worked okay.

```
$ mkdocs --version
mkdocs, version 1.2.0 from /usr/local/lib/python3.8/site-packages/mkdocs (Python 3.8)
```

Note

If you would like manpages installed for MkDocs, the click-man tool can generate and install them for you. Simply run the following two commands:

```
pip install click-man
click-man --target path/to/man/pages mkdocs
```

See the click-man documentation for an explanation of why manpages are not automatically generated and installed by pip.

User Guide MkDocs Installation

Note

If you are using Windows, some of the above commands may not work out-of-the-box.

A quick solution may be to preface every Python command with python -m like this:

```
python -m pip install mkdocs
python -m mkdocs
```

For a more permanent solution, you may need to edit your PATH environment variable to include the Scripts directory of your Python installation. Recent versions of Python include a script to do this for you. Navigate to your Python installation directory (for example C:\Python38\), open the Tools, then Scripts folder, and run the win_add2path.py file by double clicking on it. Alternatively, you can download the script and run it (python win add2path.py).

Did I try enough harder?;-)