confluencer Documentation

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1
1 Group

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A CLI tool to automate common Confluence maintenance tasks and content publishing.

CHAPTER 1

Installing

Confluencer can be installed from PyPI via `pip install confluencer` as usual, see releases on GitHub for an overview of available versions – the project uses semantic versioning and follows PEP 440 conventions.

To get a bleeding-edge version from source, use these commands:

```
repo="1and1/confluencer"
pip install -r "https://raw.githubusercontent.com/$repo/master/requirements.txt"
pip install -UI -e "git+https://github.com/$repo.git#egg=${repo#*/}"
```

See the following section on how to create a full development environment.

To add bash completion, read the Click docs about it, or just follow these instructions:

```
cmdname=confluencer
mkdir -p ~/.bash_completion.d
( export _$(tr a-z- A-Z_ <<<"$cmdname")_COMPLETE=source ; \
  $cmdname >~/.bash_completion.d/$cmdname.sh )
grep /.bash_completion.d/$cmdname.sh ~/.bash_completion >/dev/null \
    || echo >>~/.bash_completion ". ~/.bash_completion.d/$cmdname.sh"
. "/etc/bash_completion"
```

CHAPTER 2

Contributing

To create a working directory for this project, call these commands:

```
git clone "https://github.com/1and1/confluencer.git"
cd "confluencer"
. .env --yes --develop
invoke build --docs test check
```

Contributing to this project is easy, and reporting an issue or adding to the documentation also improves things for every user. You don't need to be a developer to contribute. See *Contribution Guidelines* for more.

CHAPTER 3

Documentation Contents

3.1 Using Confluencer

3.1.1 Providing Login Credentials

Before you can use *Confluencer*, you have to provide some minimal configuration, most importantly credentials for API access. Select one of the ways outlined below to store your API credentials.

3.1.1.1 Using the ~/.netrc File

1. Create the file `~/.netrc` with the following contents (or add that to the existing file):

```
machine confluence.example.org
    login «your username»
    password «your password»
```

2. Call `chmod 600 ~/.netrc` to protect your sensitive data.
3. Check that everything is OK by calling `python3 -m netrc | less`.

This way, the sensitive authentication information is separate from the rest of the configuration. Use the `cfr help` command to check whether your credentials actually work – if they do, the "Confluence Stats" section in the output will show some basic info about your wiki, otherwise you'll see an error indicator.

3.1.1.2 Using a Keyring Query Command

TODO

Tools that can be used on Linux are `gnome-keyring-query` and gkeyring.

3.1.2 Cleaning Up Pages After Content Migration

The *Confluence* rich text editor allows you to migrate content from rendered HTML in other systems by simple copy&paste. However, certain artifacts of the source system are carried over, or active content is only copied with its *current (static) state*.

The `cfr tidy` sub-command relieves you from manually fixing all those tiny defects, based on built-in patterns and replacement rules. These rules currently target *FosWiki* as a source, and for example a copied table of contents is replaced by the related *Confluence* macro.

Pass it the URL of the page you want to clean up – adding the `--recursive` option includes all descendants of that page. Normally, the output shows which and how often rules are applied to the content, the `--diff` option adds a detailed record of the applied changes.

If you want to just show the changes without applying them, use the `--no-save` option (or the shorter `-n`). This automatically includes diff output, to just show the applied rules repeat the option (`-nn`).

```
$ cfr tidy -nn "http://confluence.local/display/~jhe/Sandbox"
INFO:confluencer:Replaced 2 matche(s) of "FosWiki: Empty anchor in headers" (16 chars␣
↪removed)
INFO:confluencer:Replaced 3 matche(s) of "FosWiki: 'tok' spans in front of headers"␣
↪(94 chars removed)
INFO:confluencer:Replaced 3 matche(s) of "FosWiki: Section edit icons at the end of␣
↪headers" (664 chars removed)
INFO:confluencer:Replaced 1 matche(s) of "FosWiki: Replace TOC div with macro" (127␣
↪chars removed)
INFO:confluencer:WOULD save page#2393332 "Sandbox" as v. 11
```

3.1.3 Exporting Metadata for a Page Tree

`cfr stats tree` generates a JSON list of a page tree given its root page (other output formats will follow). You can then select more specific information from that using `jq` or other JSON tools.

Consider this example creating a CSV file:

```
$ cfr stats tree "https://confluence.local/x/_EJN" \
  | jq '.[] | .depth, .title, .version.when, .version.by.displayName' \
  | paste -sd ';;;\n'
INFO:confluencer:Got 21 results.
0;"Root Page";"2016-10-24T17:20:04.000+02:00";"Jürgen Hermann"
1;"First Immediate Child";"2020-01-22T14:24:45.111+01:00";"Jürgen Hermann"
...
```

3.2 Complete CLI Reference

This is a full reference of the **`cfr`** command, with the same information as you get from using `--help`. It is generated from source code and thus always up to date. See *Using Confluencer* for a more detailed description.

Available Commands

- *cfr*
  - *help*

- *pretty*
- *rm*
  - *tree*
- *stats*
  - *tree*
  - *usage*
- *tidy*

3.2.1 cfr

'confluencer' command line tool.

```
cfr [OPTIONS] COMMAND [ARGS]...
```

Options

--version
Show the version and exit.

--license
Show the license and exit.

-q, --quiet
Be quiet (show only errors).

-v, --verbose
Create extra verbose output.

-c, --config <config_paths>
Load given configuration file(s).

3.2.1.1 help

Print some information on the system environment.

```
cfr help [OPTIONS]
```

Options

-c, --config-dump
Dump the merged configuration to stdout.

3.2.1.2 pretty

Pretty-print page content markup.

```
cfr pretty [OPTIONS] <page-url>...
```

Options

-R, --recursive
Handle all descendants.

-J, --json
Print raw API response (JSON).

-f, --format <markup>
Markup format.

Options view|editor|storage|export|anon

Arguments

‹page-url›...
Optional argument(s)

3.2.1.3 rm

Remove contents.

```
cfr rm [OPTIONS] COMMAND [ARGS]...
```

tree

Remove page(s) including their descendants.

```
cfr rm tree [OPTIONS] ‹page-url›...
```

Arguments

‹page-url›...
Optional argument(s)

3.2.1.4 stats

Create status reports (or data exports).

```
cfr stats [OPTIONS] COMMAND [ARGS]...
```

Options

-f, --format <serializer>
Output format (defaults to extension of OUTFILE).

Options dict|json|html|yaml|csv|tsv|ods|xls

-s, --space <space>

-e, --entity <entity>
Entity to handle / search for.

Options macro

-o, --outfile <outfile>

tree

Export metadata of a page tree.

```
cfr stats tree [OPTIONS] ROOTPAGE
```

Arguments

ROOTPAGE
Required argument

usage

Create report on usage of different entities (macros, labels, . . .).

```
cfr stats usage [OPTIONS] QUERY
```

Options

--top <top>
Show top ‹N› ranked entities.

Arguments

QUERY
Required argument

3.2.1.5 tidy

Tidy pages after cut&paste migration from other wikis.

```
cfr tidy [OPTIONS] ‹page-url›...
```

Options

--diff
Show differences after tidying.

-n, --no-save, --dry-run
Only show differences after tidying, don't apply them (use twice for no diff).

-R, --recursive
Handle all descendants.

Arguments

<page-url>...
Optional argument(s)

3.3 Complete API Reference

The following is a complete API reference generated from source.

3.3.1 confluencer package

Confluencer – A CLI tool to automate common Confluence maintenance tasks and content publishing.

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3.3.1.1 Subpackages

confluencer.api package

Confluence API support.

https://developer.atlassian.com/cloud/confluence/rest/

class confluencer.api.**ConfluenceAPI**(*endpoint=None*, *session=None*)
Bases: object

Support for using the Confluence API.

Since the Confluence API has excellent support for discovery by e.g. the _links attribute in results, this just adds a thin convenience layer above plain requests HTTP calls.

CACHE_EXPIRATION = 36000

UA_NAME = 'Confluencer'

add_page(*space_key*, *title*, *body*, *parent_id=None*, *labels=None*)
Create a new page.

The body must be in 'storage' representation.

delete_page(*page*, *status=None*)
Delete an existing page.

To permanently purge trashed content, pass status='trashed'.

get(*path*, ***params*)
GET an API path and return result.

If _cached=True is provided, the cached session is used.

getall(*path*, ***params*)
Yield all results of a paginated GET.

If the `limit` keyword argument is set, it is used to stop the generator after the given number of result items.

Parameters

- **path** – Confluence API URI.
- **params** – Request parameters.

update_page(*page*, *body*, *minor_edit=True*)
Update an existing page.

The page **MUST** have been retrieved using `expand='body.storage,version,ancestors'`.

url(*path*)
Build an API URL from partial paths.

Parameters **path** (*str*) – Page URL / URI in various formats (tiny, title, id).

Returns The fully qualified API URL for the page.

Return type str

Raises `ValueError` – A `path` was passed that isn't understood, or malformed.

user(*username=None*, *key=None*)
Return user details.

Passing neither user name nor key retrieves the current user.

walk(*path*, ***params*)
Walk a page tree recursively, and yield the root and all its children.

confluencer.api.**context**(**args*, ***kwargs*)
Context manager providing an API object with standard error logging.

confluencer.api.**diagnostics**(*cause*)
Display diagnostic info based on the given cause.

confluencer.api.**page_id_from_tiny_link**(*uri*, *_re=re.compile('/x/([-_A-Za-z0-9]+)')*)
Extract the page ID from a so-called *tiny link*.

See *this answer <https://answers.atlassian.com/questions/87971/what-is-the-algorithm-used-to-create-the-tiny-links>* for details.

confluencer.api.**tiny_id**(*page_id*)
Return *tiny link* ID for the given page ID.

confluencer.commands package

CLI commands.

Submodules

confluencer.commands.help module

'help' command.

confluencer.commands.pretty module

'pretty' command.

confluencer.commands.remove module

'rm' command.

confluencer.commands.stats module

'stats' command group.

confluencer.commands.stats.**print_result**(*ctx*, *obj*)
Dump a result to the console or an output file.

confluencer.commands.tidy module

'tidy' command.

confluencer.tools package

Confluence supporting tools.

Classes and functions in this package help you to work with Confluence entities, and provide higher level abstractions to ease API usage.

Submodules

confluencer.tools.content module

Tools to discover and modify content.

class confluencer.tools.content.**ConfluencePage**(*cf*, *url*, *markup='storage'*, *expand=None*)
Bases: object

A page that holds enough state so it can be modified.

DIFF_COLS = {'+': 'green', '-': 'red', '@': 'yellow'}

dump_diff(*changed*)
Dump a diff to terminal between changed and stored body.

etree()
Parse the page's body into an ElementTree.

json
The full JSON response data.

page_id
The numeric page ID.

space_key
The space this page belongs to.

tidy (*log=None*)
Return a tidy copy of this page's body.

title
The page's title.

update (*body=None*, *minor=True*)
Update a page's content.

version
The page's version number in history.

confluencer.util package

Helpers.

confluencer.util.**progress** (**args*, ***kwargs*)
Wrapper for progress bars providing consistent customizaion.

3.3.1.2 Submodules

3.3.1.3 confluencer.config module

Configuration utilities.

confluencer.config.**cache_empty_dir** (*name*)
Return absolute path to a clean staging directory.

confluencer.config.**cache_file** (*name*)
Return absolute path to any app-specific caching file.

confluencer.config.**envvar** (*name*, *default=None*)
Return an environment variable specific for this application (using a prefix).

confluencer.config.**version_info** (*ctx=None*)
Return version information just like –version does.

3.4 Contribution Guidelines

3.4.1 Overview

Contributing to this project is easy, and reporting an issue or adding to the documentation also improves things for every user. You don't need to be a developer to contribute.

3.4.1.1 Reporting issues

Please use the *GitHub issue tracker*, and describe your problem so that it can be easily reproduced. Providing relevant version information on the project itself and your environment helps with that.

3.4.1.2 Improving documentation

The easiest way to provide examples or related documentation that helps other users is the *GitHub wiki*.

If you are comfortable with the Sphinx documentation tool, you can also prepare a pull request with changes to the core documentation. GitHub's built-in text editor makes this especially easy, when you choose the *"Create a new branch for this commit and start a pull request"* option on saving. Small fixes for typos and the like are a matter of minutes when using that tool.

3.4.1.3 Code contributions

Here's a quick guide to improve the code:

1. Fork the repo, and clone the fork to your machine.
2. Add your improvements, the technical details are further below.
3. Run the tests and make sure they're passing (`invoke test`).
4. Check for violations of code conventions (`invoke check`).
5. Make sure the documentation builds without errors (`invoke build --docs`).
6. Push to your fork and submit a pull request.

Please be patient while waiting for a review. Life & work tend to interfere.

3.4.2 Details on contributing code

This project is written in Python, and the documentation is generated using Sphinx. setuptools and Invoke are used to build and manage the project. Tests are written and executed using pytest and tox.

3.4.2.1 Set up a working development environment

To set up a working directory from your own fork, follow these steps, but replace the repository `https` URLs with SSH ones that point to your fork.

For that to work on Debian type systems, you need the `git`, `python`, and `python-virtualenv` packages installed. Other distributions are similar.

3.4.2.2 Add your changes to a feature branch

For any cohesive set of changes, create a *new* branch based on the current upstream `master`, with a name reflecting the essence of your improvement.

```
git branch "name-for-my-fixes" origin/master
git checkout "name-for-my-fixes"
... make changes...
invoke ci # check output for broken tests, or PEP8 violations and the like
... commit changes...
git push origin "name-for-my-fixes"
```

Please don't create large lumps of unrelated changes in a single pull request. Also take extra care to avoid spurious changes, like mass whitespace diffs. All Python sources use spaces to indent, not TABs.

3.4.2.3 Make sure your changes work

Some things that will increase the chance that your pull request is accepted:

- Follow style conventions you see used in the source already (and read PEP8).
- Include tests that fail *without* your code, and pass *with* it. Only minor refactoring and documentation changes require no new tests. If you are adding functionality or fixing a bug, please also add a test for it!
- Update any documentation or examples impacted by your change.
- Styling conventions and code quality are checked with `invoke check`, tests are run using `invoke test`, and the docs can be built locally using `invoke build --docs`.

Following these hints also expedites the whole procedure, since it avoids unnecessary feedback cycles.

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CHAPTER 4

References

4.1 Tools

- Cookiecutter
- PyInvoke
- pytest
- tox
- Pylint
- twine
- bpython
- yolk3k

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