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# **Bitdock**

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Intermediate service to handle [Bitbucket](#) 'pull-request' notifications and push them into [Flowdock](#)



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## Installation

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Installation is simple with `pip`:

```
$ pip install bitdock
```

### 1.1 Building from source

You can also build manually from the source for more control. First obtain a copy of the source by either downloading the [zipball](#) or cloning the public repository:

```
git clone git@bitbucket.org:ftrack/bitdock.git
```

Then you can build and install the package into your current Python site-packages folder:

```
python setup.py install
```

Alternatively, just build locally and manage yourself:

```
python setup.py build
```

#### 1.1.1 Building documentation from source

To build the documentation from source:

```
python setup.py build_sphinx
```

Then view in your browser:

```
file:///path/to/bitdock/build/doc/html/index.html
```

### 1.2 Dependencies

- Python `>= 2.6, < 3`
- CherryPy `>= 3.2, < 4`
- requests `>= 2.2, < 3'`

### 1.2.1 Additional For testing

- Pytest  $\geq 2.3.5, < 3$



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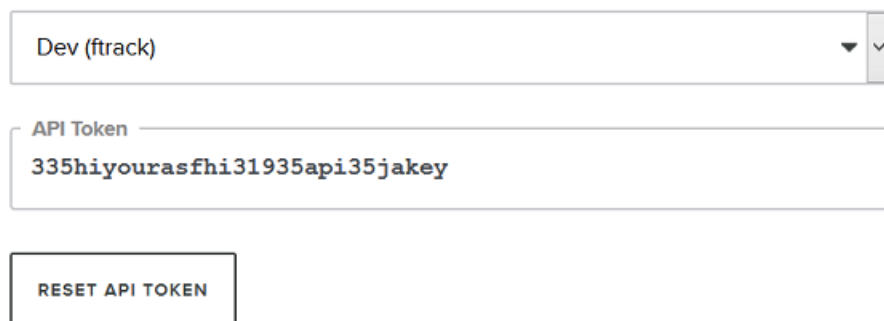
## Usage

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Once *installed* you need to grab a relevant API token from Flowdock. Go to <https://www.flowdock.com/account/tokens> and copy an appropriate token (for example, a token for a flow called 'Dev'):

### Flow API tokens

With a flow's API token you can post team inbox or chat messages into the specific flow.



The screenshot shows a web interface for managing API tokens. At the top, there is a dropdown menu with the text 'Dev (ftrack)' and a downward arrow. Below this is a text input field with the label 'API Token' and the value '335hiyourasfhi31935api35jakey'. At the bottom, there is a button labeled 'RESET API TOKEN'.

Then start the Bitdock service from the command line passing your copied API token as the sole parameter:

```
python -m bitdock [YOUR_FLOWDOCK_API_KEY]
```

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**Note:** To see additional runtime options (such as setting host and port interface) use:

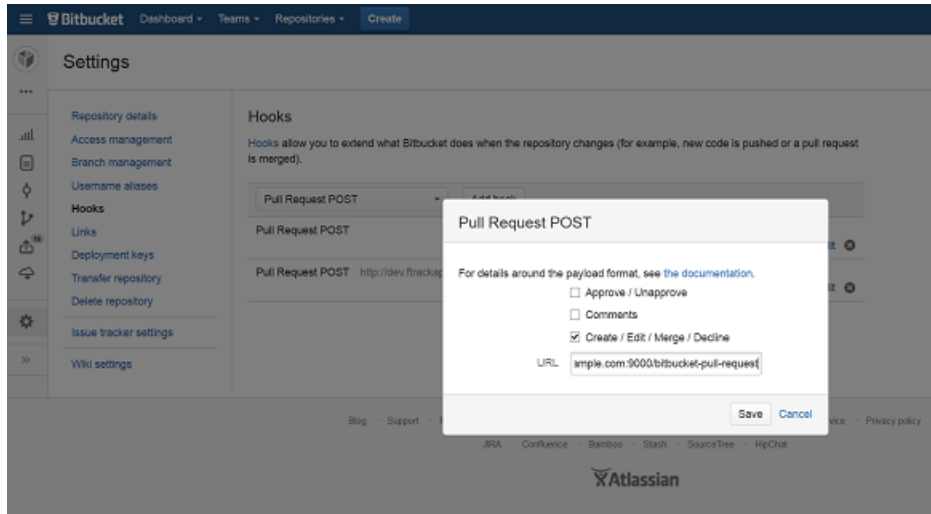
```
python -m bitdock --help
```

---

Now the server is up and running it is time to head over to the Bitbucket project you want to receive notifications for. Once there, navigate to the *Settings* → *Hooks* page and add a new *Pull Request POST* hook.

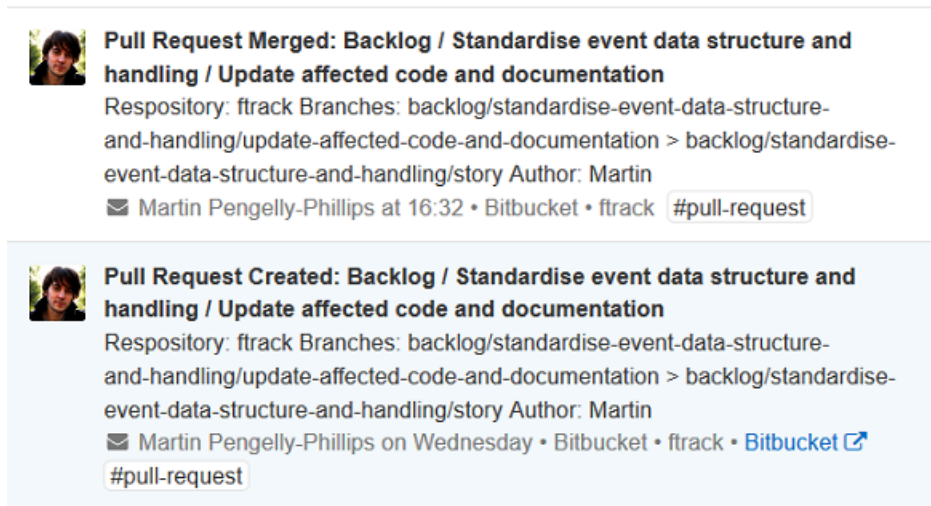
Check only the *Create / Edit / Merge / Decline* option and then enter the full public URL to your running server adding '/bitbucket-pull-request' at the end. For example:

```
http://example.com:9000/bitbucket-pull-request
```



Click *Save*.

Now whenever a Bitbucket pull request is created or updated you should see a new entry in your Flowdock inbox for the configured flow.



**Note:** Assigned reviewers will show up as people tags on the inbox entry.

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## 2.1 Mapping Users

As folks may have different user details on Bitbucket and Flowdock there is a basic way to map from one to the other. Start the server passing in a path to a JSON file containing mappings of Bitbucket usernames to Flowdock user details. For example:

```
my_mappings.json
```

```
{
  "martin": {
    "username": "mphilips",
    "display_name": "Martin Pengelly-Phillips",
    "email": "martin@example.com"
  }
}
```

```
    },  
    ...  
}
```

Run the server using:

```
python -m bitdock --user-mapping my_mappings.json
```



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## API reference

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### 3.1 bitdock

**class** `bitdock.__main__.Bitdock` (*flowdock\_api\_key*, *user\_mapping=None*)

Bases: `object`

Bitdock main handler.

**\_\_init\_\_** (*flowdock\_api\_key*, *user\_mapping=None*)

Initialise handler with *flowdock\_api\_key*.

In addition, optionally specify a *user\_mapping* to use when mapping users. It should be a dictionary of Bitbucket user names against Flowdock user dictionaries. The Flowdock user dictionary should contain keys for `username`, `display_name` and `email`.

**bitbucket\_pull\_request** ()

Handle bitbucket pull request notification.

**flowdock\_api\_url**

Return flowdock api url.

`bitdock.__main__.main` (*arguments=None*)

Bitdock: Connect Bitbucket and Flowdock.









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## Indices and tables

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- *genindex*
- *modindex*
- *search*



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## Copyright and license

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