



Soundphy Documentation

Release

The Soundphy contributors.

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CHAPTER 1

What is Soundphy?

Soundphy is a sounds web service and database.

Developers

Installing dependencies

To install the required dependencies for developing Soundphy, you can make use of the provided *requirements_dev.txt* file:

```
pip install -r requirements_dev.txt
```

Running tests

Running the tests locally is very simple, using [Tox](#) from the top level path of the project:

```
tox
```

That single command will run all the tests for all the supported Python versions available in your system or environment.

For faster results you may want to run all the tests just against a single Python version. This command will run all tests against Python 3.5 only:

```
tox -e py35
```

Note that those tests include style and static analysis checks. If you just want to run all the behavior tests (not recommended):

```
pytest -n 8
```

If you just want to run a handful of behavior tests (common when developing new functionality), just run:

```
pytest -k keyword
```

Note: Before submitting your changes for review, make sure all tests pass with *tox*, as the continuous integration system will run all those checks as well.

Generating documentation

Documentation is generated with Sphinx. In order to generate the documentation locally you need to run *make* from the *docs* directory:

```
make html
```

Deployment

Auto-deployment on OpenShift 3

In order to enable auto-deployment for the project, you need to have a *OpenShift Online* account.

If you don't have one yet, you can create one on the following [link](#).

OpenShift web console

Once on the OpenShift console, follow the next steps to setup a new project:

- Choose **Python** language on the catalog and select **Python 3.5** model.
- Fill **name**, **Git URL** fields and proceed with the creation.

After creating the project, you will need to take note of the following info for the deploy: **GitHub Webhook URL** and **GitHub secret**.

For the **GitHub Webhook URL**, go to builds and open the one on the list. Then go to configuration tab, and the GitHub Webhook URL field will be on the right.

The **GitHub secret** can be found on the build config file. To open it, click over **action** dropdown placed on the top right corner of the console, and select **Edit YAML**.

Inside the build config editor, search the fragment that points to the repository and make sure that **ref** param points to the branch that will be auto deployed.

```
source:
  type: Git
  git:
    uri: 'https://github.com/Soundphy/soundphy'
    ref: master
```

Next, search for the *spec / triggers* fragment where the **GitHub secret** is placed, and grab the token.

```
spec:
  triggers:
  - type: Generic
    generic:
```

```
secret: 000000000000
- type: GitHub
  github:
    secret: 000000000000
```

GitHub webhook configuration

Now it's time to setup the webhook that triggers the autodeployment. With the project opened on GitHub, go to webhook screen via *settings / webhook / Add webhook*. In there:

- Fill the Payload URL field with the **GitHub Webhook URL** taken from Openshift console.
- Choose **application/json** as content type.
- Fill the secret field with the **GitHub secret** token.

Depending on your needs you could adjust more or less the events that triggers the webhook, in this case *push* event is enough.

Once you create the webhook, it will be deployed by the first time automatically, so be sure that was successfully delivered before closing the tab.

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