

---

# pyetheroll Documentation

**Andre Miras**

**Mar 21, 2020**



---

## Contents:

---

<b>1</b>	<b>Readme</b>	<b>1</b>
<b>2</b>	<b>pyetheroll</b>	<b>3</b>
2.1	Usage . . . . .	3
2.2	API keys . . . . .	4
2.3	Install . . . . .	4
<b>3</b>	<b>Examples</b>	<b>5</b>
3.1	Get address last rolls . . . . .	5
3.2	Read contract . . . . .	5
<b>4</b>	<b>How to release</b>	<b>7</b>
4.1	Git flow & CHANGELOG.md . . . . .	7
4.2	Publish to PyPI . . . . .	7
4.3	Check Read the Docs . . . . .	8
4.4	GitHub . . . . .	8
<b>5</b>	<b>CHANGELOG</b>	<b>9</b>
<b>6</b>	<b>Change Log</b>	<b>11</b>
6.1	[20200320] . . . . .	11
6.2	[20191108] . . . . .	11
6.3	[20191107] . . . . .	11
6.4	[20191018] . . . . .	11
6.5	[20190321] . . . . .	12
6.6	[20181031] . . . . .	12
6.7	[20181030] . . . . .	12
6.8	[v20181029] . . . . .	12
<b>7</b>	<b>Indices and tables</b>	<b>13</b>



# CHAPTER 1

---

Readme

---



Python library to Etheroll smart contract

## 2.1 Usage

Simply set bet size, chances and wallet settings before rolling:

```
from pyetheroll.etheroll import Etheroll

etheroll = Etheroll()
bet_size_ether = 0.1
bet_size_wei = int(bet_size_ether * 1e18)
chances = 50
wallet_path = 'wallet.json'
wallet_password = 'password'

transaction = etheroll.player_roll_dice(
    bet_size_wei, chances, wallet_path, wallet_password)
```

It's also possible to set different contract address and chain ID:

```
from pyetheroll.constants import ChainID
from pyetheroll.etheroll import Etheroll

chain_id = ChainID.ROPSTEN
contract_address = '0xe12c6dEb59f37011d2D9FdeC77A6f1A8f3B8B1e8'
etheroll = Etheroll(chain_id, contract_address)
```

Find out more in [docs/Examples.md](#).

## 2.2 API keys

Both Etherscan and Infura require API keys which are retrieved from the following environment variables:

- ETHERSCAN\_API\_KEY (consumed by pyetheroll directly)
- WEB3\_INFURA\_PROJECT\_ID (consumed by `web3.py`)

## 2.3 Install

Latest stable release:

```
pip install pyetheroll
```

Development branch:

```
pip install --process-dependency-links \  
https://github.com/AndreMiras/pyetheroll/archive/develop.zip
```



Here is a list of common things the library can help with.

### 3.1 Get address last rolls

Basically what you need is the `Etheroll.get_last_bets_transactions()` method. See example [rolls2csv.py](#) for a detailed example.

### 3.2 Read contract

Access the web3 contract directly from the `Etheroll` instance:

```
etheroll = Etheroll()
min_bet = etheroll.contract.functions.minBet().call()
```



This is documenting the release process.

### 4.1 Git flow & CHANGELOG.md

Make sure the CHANGELOG.md is up to date and follows the <http://keepachangelog.com> guidelines. Start the release with git flow:

```
git flow release start YYYYMMDD
```

Now update the CHANGELOG.md [Unreleased] section to match the new release version. Also update the version string in the setup.py file. Then commit and finish release.

```
git commit -a -m "YYYYMMDD"  
git flow release finish
```

Push everything, make sure tags are also pushed:

```
git push  
git push origin master:master  
git push --tags
```

### 4.2 Publish to PyPI

Build it:

```
make release/build
```

Check archive content:

```
tar -tvf dist/pyetheroll-*.tar.gz
```

Upload:

```
make release/upload
```

This will also publish the alias meta package `setup_meta.py`.

### 4.3 Check Read the Docs

Make sure <https://readthedocs.org/projects/pyetheroll/> is up to date.

### 4.4 GitHub

Got to GitHub [Release/Tags](#), click “Add release notes” for the tag just created. Add the tag name in the “Release title” field and the relevant CHANGELOG.md section in the “Describe this release” textarea field. Finally, attach the generated APK release file and click “Publish release”.

## CHAPTER 5

---

### CHANGELOG

---



### 6.1 [20200320]

- Move API keys to env var, refs #9

### 6.2 [20191108]

- Fix Ropsten 403 errors

### 6.3 [20191107]

- API key refactoring

### 6.4 [20191018]

- Change units to WEI
- Add `transaction()` helper
- Add Python3.7 support
- Introduce `Makefile`, refs #4 and #5
- Fix timestamp conversion bug, refs #6
- Setup coverage testing, refs #7
- Migrate to web3 v5, refs #8

## 6.5 [20190321]

- Add readthedocs Sphinx documentation, refs #2
- Improve setup, refs #3
- Configurable API key

## 6.6 [20181031]

- Remove legacy pyetherapp & pyethereum dependencies
- Migrate to pipenv, refs #1
- Improve install from setup.py

## 6.7 [20181030]

- Add tox testing
- Enable Travis CI
- Installable module

## 6.8 [v20181029]

- Initial release import from EtherollApp v20181028



## CHAPTER 7

---

### Indices and tables

---

- `genindex`
- `modindex`
- `search`