
receipts Documentation

Release 0.2

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Contents:

Firefox receipt parser

This requires Firefox 14 and Python 2.7 or greater to be installed.

Creates a python script called receipts that will find Web App receipts in your Firefox install and then allows you to check them against the verification service contained within the receipt.

Tested on OS X, not sure about support for other operating systems yet.

1.1 Usage

To list receipts:

```
receipts -l
```

To check a receipt for a specific domain. This will check the receipt against the server and check that it is cryptographically correct. These are two different steps:

```
receipts -c -d DOMAINNAME
```

To check all domains:

```
receipts -c
```

To expand a receipt for a specific domain:

```
receipts -e -d DOMAINNAME
```

To expand all domains:

```
receipts -e
```

To dump a raw receipt:

```
receipts -D
```

By default receipts will try and find your default Firefox profile. If not it will use one provided with -p, eg:

```
receipts -l -p fx6
```

Example:

```
Checking receipts for domain: launchpad.staging.37signals.com
Verifying at: https://receiptcheck-marketplace-dev.allizom.org/verify/369802
Server returned: invalid
Validity check: good
```

Currently the receipts script uses *fx.py* script, that enforces that for cryptographic verification the receipt must come from one of the Mozilla sources.

1.2 Phone

If you've got a B2G phone you can check the receipts on your phone. This assumes that receipts are installed at:

```
/data/local/webapps/webapps.json
```

Connect your phone to the USB cable and ensure that you've got access to adb.

Then add in the argument *adb* or *a*. To any of the above commands and instead of looking at Firefox, it will pull the receipts file off your phone and examine that instead. For example:

```
receipts -a --list
```

1.3 Simulator

If you've got the Firefox OS Simulator installed you can you check receipts by adding the argument *simulator* or *s*.

To any of the above commands and instead of looking at Firefox, it will check with the simulator. For example:

```
receipts -s --list
```

If you specify *s* and *a* an error will be raised.

1.4 File

To read a receipt from a file, just pass the *-f* argument. For example:

```
receipts -f /tmp/receipt.txt
```

Receipt Library

Note: this API is just being built and is liable to change.

2.1 Receipt object

Allows you to inspect a receipt. In the following I snipped the receipt string because it's really long:

```
>>> from receipts.receipts import Receipt
>>> receipt = Receipt("eyJh...")
>>> receipt.verifier
u'https://receiptcheck-marketplace-dev.allizom.org/verify/369802'
>>> receipt.verify_server()
{'status': u'invalid'}
>>> receipt.verify_crypto()
True
```

- *verify_server*: will send the receipt to the URL specified in the receipt for verification and return its result.
- *verify_crypto*: this requires PyBrowserID to be installed. This is optional and is not installed in the setup due to its dependencies. If you don't have this installed: *MissingPyBrowserId* is raised.

Install

Requires Python 2.7 and pip:

```
pip install receipts
```

Dependencies that will be installed:

- requests
- pyjwt-mozilla

Optional dependency:

- PyBrowserID

This is required for the crypto verification check of the receipt. The verification server will do this for you, but you can optionally do it yourself. To install this:

```
pip install PyBrowserID==0.6
```

Changes:

- 0.2.10
Add in the ability to read a receipt from any arbitrary file.
- 0.2.8
Add in the dump command and test coverage for the certs and receipts part.
- 0.2.2
Make PyBrowserID and hence M2Crypto optional. Add in issue and expiry dates into the list command nicely formatted.

License

MIT

Indices and tables

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