
givecookiebot-slack Documentation

Release 1.0.1

Austin Developer Community

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API REFERENCE

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givecookiebot-slack is a Slack bot that adds a cookie emoji (🍪) to a user's status for 3 hours when that user is 'given' a cookie in chat.

Something like:

@User Thanks for helping out today! 🍪

The user's status will then be updated to include the cookie emoji.

After 3 hours have passed, the cookie emoji is removed from the user's status.

INSTALLATION

givecookiebot-slack is a Python script that requires a few dependencies specified in requirements.txt.

```
pip install -r requirements.txt
```

With the Python requirements installed, we can move on to Slack API's requirements.

1.1 Slack API Tokens

First, the Slack client tokens must be added to the environment variables in ~/.bashrc:

```
export SLACK_CLIENT_ID="first_long_complicated_string_here"
export SLACK_CLIENT_SECRET="second_long_complicated_string_here"
export SLACK_SIGNING_SECRET="third_long_complicated_string_here"
export SLACK_BOT_SCOPE="channels:history users.profile:write"
```

Next, run tokens.py to get the user token that will be used to access the Slack API.

```
$ cd givecookiebot-slack # Go to source code directory (if needed)
$ source ./venv/bin/activate # Activate venv (if applicable)
(venv)$ python -m givecookiebotslack.tokens
```

Note: Only the owner can set the status of an admin user and only owners/admin users can set user statuses.

The Flask server is running at 127.0.0.1:5000, by default. Go to http://127.0.0.1:5000/begin_auth and click on Add to Slack to start the OAuth process.

Once **givecookiebot-slack** gets approval for the needed scopes and permissions, the user token should be saved to the SLACK_USER_TOKEN environment variable.

Warning: The SLACK_USER_TOKEN environment variable is lost once the terminal is closed. So, use CTRL+C to stop Flask and keep the terminal open when starting the bot.

1.2 ngrok

One can use [ngrok](#) as a quick way to access the local Flask server externally.

Note: Using ngrok requires making an account. Free accounts have dynamic domain names that change every 8 hours or when the terminal is closed.

Once the local Flask server is running, start ngrok with:

```
ngrok http 5000
```

Use either the http or https forwarding address: xxxxxxx.ngrok.io/begin_auth.

In the OAuth & Permissions settings at <https://api.slack.com/apps>, make sure to set the Redirect URL to xxxxxxx.ngrok.io/finish_auth.

If successful, it should render a page that says “Auth complete!”.

1.3 Start givecookiebot-slack

With the tokens saved, start **givecookiebot-slack** in a new terminal with:

```
$ cd givecookiebot-slack # Go to source code directory (if needed)
$ source ./venv/bin/activate # Activate venv (if applicable)
(venv)$ python -m givecookiebotslack.bot
```

The Flask server is running at 127.0.0.1:3000, by default. The bot will be waiting for events from slack at the address <http://127.0.0.1:3000/slack/events>.

Navigating there should render a page that says “These are not the slackbots you’re looking for.”

Once again, use ngrok to register the bot with Slack Events at <https://api.slack.com/apps> with:

```
ngrok http 3000
```

Provide the https forwarding link as the Request URL: <https://xxxxxxx.ngrok.io/slack/events>.

Add the bot to a channel and start passing out [].

Warning: This environment is **not** suitable for production. Tokens should be stored in a secure database. Ngrok shouldn’t be used to create a tunnel. The built-in Flask server should not be used.

1.3.1 givecookiebotslack

givecookiebotslack package

Submodules

givecookiebotslack.bot module

givecookiebot-slack

Defines [Event API](#) events that the bot will respond to.

givecookiebotslack.bot.SLACK_SIGNING_SECRET

Secret identifying bot to Slack Events API. Like a password.

Type str

givecookiebotslack.bot.SLACK_USER_TOKEN

Token used to access Slack Web API.

Type str

givecookiebotslack.bot.slack_events_adapter

Instance of SlackEventAdapter.

Type SlackEventAdapter

givecookiebotslack.bot.slack_client

Instance of SlackClient.

Type SlackClient

givecookiebotslack.bot.USERMENTION_RE

Regular expression object matching a user mention pattern.

Type re.compile

givecookiebotslack.bot.profile

Dictionary containing template of user profile status.

Type dict

givecookiebotslack.bot.error_handler(*err*)

Error events

givecookiebotslack.bot.handle_message(*event_data: dict*)

Message handler

Parses message for cookie emoji (:cookie:) and a user mention, then changes mentioned user's status to include cookie emoji for 3 hours.

Returns True if successful, otherwise the error code given by the Slack API.

givecookiebotslack.tokens module

Get User and Bot tokens.

Uses Slack's [OAuth 2.0](#) to fetch the User and Bot tokens for interfacing with Slack's API.

givecookiebotslack.tokens.post_install()

Gets tokens from auth completion page.

givecookiebotslack.tokens.pre_install()

Directs user to Slack's OAuth acceptance page.

Module contents

givecookiebot-slack: Slack bot that adds a cookie emoji (🍪) to a user's status for 3 hours when that user is 'given' a cookie in chat.

GPLv3 License

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1.3.2 Contributing Guidelines

Thanks for helping out! There are plenty of typos to fix and features to add. Getting started is easy!

Installation

General installation is covered in the [README](#). Installing into a [venv](#) is recommended.

Development

Install additional requirements from requirements-dev.txt:

```
pip install -r requirements-dev.txt
```

Ensure any additional contributions follow pylint guidelines.

Building Documentation

Building documentation is not needed unless contributing to the documentation.

HTML Docs

Install requirements specified in requirements-docs.txt. Move to docs directory and build the HTML files:

```
$ make html
```

HTML files will be located in ../givecookiebot-slack-docs/html/.

LaTeX PDF

Building the PDF has more requirements that vary based on the operating system. For Ubuntu 18.04:

```
$ sudo apt-get install texlive-latex-recommended texlive-latex-extra texlive-fonts-recommended texlive-xetex
```

XeLaTeX, texlive-xetex, is needed for Unicode emojis to be inserted into the PDF. Build the PDF from within the docs directory:

```
$ make latexpdf
```

The PDF is saved to `../givecookiebot-slack.pdf`. It may have to be built multiple times to build without errors because the indexer sometimes fails.

Code of Conduct

Whether submitting Issues or Pull Requests, be sure to follow the [Code of Conduct](#).

Submit Bug/Issue/Enhancement

Open an issue in the [GitHub Issue tracker](#) following the [Issue template](#). Be as detailed as you can to help identify the bug.

Submit Pull Request

Whether adding a feature or fixing a bug, open a pull request in [GitHub](#) following the [Pull request template](#).

Contact

Our [Facebook group](#) has a link to the Slack workspace where questions can be asked in the `#general` channel or concerns can be raised by Direct Messaging the project team.

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