


 [niqdev](#) / [packtpub-crawler](#)

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 224 commits

 2 branches

 11 releases

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 niqdev	update readme	Latest commit f8066e2 on Oct 7, 2017
 config	Add pushover notification	11 months ago
 dev	Fixed tests, resolved conflicts	a year ago
 script	Merge pull request #71 from juzim/manual-claim-on-error	9 months ago
 .dockerignore	update docker support	a year ago
 .gitignore	update readme	5 months ago
 Dockerfile	update docker scheduler	a year ago
 LICENSE	change license from CC to MIT	2 years ago
 Procfile	draft heroku scheduler	2 years ago
 README.md	update readme	5 months ago
 requirements.txt	Fixed conflicts	9 months ago

 [README.md](#)

packtpub-crawler

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This crawler automates the following step:

- access to private account
- claim the daily free eBook and weekly Newsletter
- parse title, description and useful information
- download favorite format *.pdf .epub .mobi*
- download source code and book cover
- upload files to Google Drive, OneDrive or via scp
- store data on Firebase
- notify via Gmail, IFTTT, Join or Pushover (on success and errors)
- schedule daily job on Heroku or with Docker

Default command

```
# upload pdf to googledrive, store data and notify via email
python script/spider.py -c config/prod.cfg -u googledrive -s firebase -n gmail
```

Other options

```
# download all format
python script/spider.py --config config/prod.cfg --all

# download only one format: pdf|epub|mobi
python script/spider.py --config config/prod.cfg --type pdf

# download also additional material: source code (if exists) and book cover
python script/spider.py --config config/prod.cfg -t pdf --extras
# equivalent (default is pdf)
python script/spider.py -c config/prod.cfg -e

# download and then upload to Google Drive (given the download url anyone can download it)
python script/spider.py -c config/prod.cfg -t epub --upload googledrive
python script/spider.py --config config/prod.cfg --all --extras --upload googledrive

# download and then upload to OneDrive (given the download url anyone can download it)
python script/spider.py -c config/prod.cfg -t epub --upload onedrive
python script/spider.py --config config/prod.cfg --all --extras --upload onedrive

# download and notify: gmail|ifttt|join|pushover
python script/spider.py -c config/prod.cfg --notify gmail

# only claim book (no downloads):
python script/spider.py -c config/prod.cfg --notify gmail --claimOnly
```

Basic setup

Before you start you should

- Verify that your currently installed version of Python is **2.x** with `python --version`
- Clone the repository `git clone https://github.com/niqdev/packtpub-crawler.git`
- Install all the dependencies `pip install -r requirements.txt` (see also [virtualenv](#))
- Create a [config](#) file `cp config/prod_example.cfg config/prod.cfg`
- Change your Packtpub credentials in the config file

```
[credential]
credential.email=PACKTPUB_EMAIL
credential.password=PACKTPUB_PASSWORD
```

Now you should be able to claim and download your first eBook

```
python script/spider.py --config config/prod.cfg
```

Google Drive

From the documentation, Google Drive API requires OAuth2.0 for authentication, so to upload files you should:

- Go to [Google APIs Console](#) and create a new [Google Drive](#) project named **PacktpubDrive**
- On *API manager > Overview* menu
 - Enable Google Drive API
- On *API manager > Credentials* menu
 - In *OAuth consent screen* tab set **PacktpubDrive** as the product name shown to users
 - In *Credentials* tab create credentials of type *OAuth client ID* and choose Application type *Other* named **PacktpubDriveCredentials**
- Click *Download JSON* and save the file `config/client_secrets.json`
- Change your Google Drive credentials in the config file

```
[googledrive]
...
googledrive.client_secrets=config/client_secrets.json
googledrive.gmail=GOOGLE_DRIVE@gmail.com
```

Now you should be able to upload your eBook to Google Drive

```
python script/spider.py --config config/prod.cfg --upload googledrive
```

Only the first time you will be prompted to login in a browser which has javascript enabled (no text-based browser) to generate `config/auth_token.json`. You should also copy and paste in the config the `FOLDER_ID`, otherwise every time a new folder with the same name will be created.

```
[googledrive]
...
googledrive.default_folder=packtpub
googledrive.upload_folder=FOLDER_ID
```

Documentation: [OAuth](#), [Quickstart](#), [example](#) and [permissions](#)

OneDrive

From the documentation, OneDrive API requires OAuth2.0 for authentication, so to upload files you should:

- Go to the [Microsoft Application Registration Portal](#).
- When prompted, sign in with your Microsoft account credentials.
- Find **My applications** and click **Add an app**.
- Enter **PacktpubDrive** as the app's name and click **Create application**.
- Scroll to the bottom of the page and check the **Live SDK support** box.
- Change your OneDrive credentials in the config file
 - Copy your **Application Id** into the config file to `onedrive.client_id`
 - Click **Generate New Password** and copy the password shown into the config file to `onedrive.client_secret`
 - Click **Add Platform** and select **Web**
 - Enter <http://localhost:8080/> as the **Redirect URL**
 - Click **Save** at the bottom of the page

```
[onedrive]
...
onedrive.client_id=xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxx
onedrive.client_secret=XXXXXXXXXXXXXXXXXXXXXXXXXX
```

Now you should be able to upload your eBook to OneDrive

```
python script/spider.py --config config/prod.cfg --upload onedrive
```

Only the first time you will be prompted to login in a browser which has javascript enabled (no text-based browser) to generate `config/session.onedrive.pickle`.

```
[onedrive]
...
onedrive.folder=packtpub
```

Documentation: [Registration](#), [Python API](#)

Scp

To upload your eBook via `scp` on a remote server update the configs

```
[scp]
scp.host=SCP_HOST
scp.user=SCP_USER
scp.password=SCP_PASSWORD
scp.path=SCP_UPLOAD_PATH
```

Now you should be able to upload your eBook

```
python script/spider.py --config config/prod.cfg --upload scp
```

Note:

- the destination folder `scp.path` on the remote server must exist in advance
- the option `--upload scp` is incompatible with `--store` and `--notify`

Firebase

Create a new Firebase [project](#), copy the database secret from your settings

```
https://console.firebase.google.com/project/PROJECT\_NAME/settings/database
```

and update the configs

```
[firebase]
firebase.database_secret=DATABASE_SECRET
firebase.url=https://PROJECT_NAME.firebaseio.com
```

Now you should be able to store your eBook details on Firebase

```
python script/spider.py --config config/prod.cfg --upload googledrive --store firebase
```

Gmail notification

To *send* a notification via email using Gmail you should:

- Allow ["less secure apps"](#) and ["DisplayUnlockCaptcha"](#) on your account
- [Troubleshoot](#) sign-in problems and [examples](#)
- Change your Gmail credentials in the config file

```
[gmail]
...
gmail.username=EMAIL_USERNAME@gmail.com
gmail.password=EMAIL_PASSWORD
gmail.from=FROM_EMAIL@gmail.com
gmail.to=TO_EMAIL_1@gmail.com, TO_EMAIL_2@gmail.com
```

Now you should be able to notify your accounts

```
python script/spider.py --config config/prod.cfg --notify gmail
```

IFTTT notification

- Get an account on [IFTTT](#)
- Go to your Maker [settings](#) and activate the channel
- [Create](#) a new applet using the Maker service with the trigger "Receive a web request" and the event name "packtpub-crawler"
- Change your IFTTT [key](#) in the config file

```
[ifttt]
ifttt.event_name=packtpub-crawler
ifttt.key=IFTTT_MAKER_KEY
```

Now you should be able to trigger the applet

```
python script/spider.py --config config/prod.cfg --notify ifttt
```

Value mappings:

- value1: title
- value2: description
- value3: landing page URL

Join notification

- Get the Join [Chrome extension](#) and/or [App](#)
- You can find your device ids [here](#)
- (Optional) You can use multiple devices or groups (group.all, group.android, group.chrome, group.windows10, group.phone, group.tablet, group.pc) separated by comma
- Change your Join credentials in the config file

```
[join]
join.device_ids=DEVICE_IDS_COMMA_SEPARATED_OR_GROUP_NAME
join.api_key=API_KEY
```

Now you should be able to trigger the event

```
python script/spider.py --config config/prod.cfg --notify join
```

Pushover notification

- Get your [USER_KEY](#)
- Create a [new application](#)
- (Optional) Add an [icon](#)
- Change your pushover credentials in the config file

```
[pushover]
pushover.user_key=PUSHOVER_USER_KEY
pushover.api_key=PUSHOVER_API_KEY
```

Heroku

Create a new branch

```
git checkout -b heroku-scheduler
```

Update the `.gitignore` and commit your changes

```
# remove
config/prod.cfg
config/client_secrets.json
config/auth_token.json
# add
dev/
config/dev.cfg
config/prod_example.cfg
```

Create, config and deploy the scheduler

```
heroku login
# create a new app
heroku create APP_NAME --region eu
# or if you already have an existing app
heroku git:remote -a APP_NAME

# deploy your app
git push -u heroku heroku-scheduler:master
heroku ps:scale clock=1

# useful commands
heroku ps
heroku logs --ps clock.1
heroku logs --tail
heroku run bash
```

Update `script/scheduler.py` with your own preferences.

More info about Heroku [Scheduler](#), [Clock Processes](#), [Add-on](#) and [APScheduler](#)

Docker

Build your image

```
docker build -t niqdev/packtpub-crawler:2.4.0 .
```

Run manually

```
docker run \
  --rm \
  --name my-packtpub-crawler \
  niqdev/packtpub-crawler:2.4.0 \
  python script/spider.py --config config/prod.cfg
```

Run scheduled crawler in background

```
docker run \
  --detach \
  --name my-packtpub-crawler \
  niqdev/packtpub-crawler:2.4.0

# useful commands
docker exec -i -t my-packtpub-crawler bash
docker logs -f my-packtpub-crawler
```

Alternatively you can pull from [Docker Hub](#) this [fork](#)

```
docker pull kuchy/packtpub-crawler
```

Cron job

Add this to your crontab to run the job daily at 9 AM:

```
crontab -e

00 09 * * * cd PATH_TO_PROJECT/packtpub-crawler && /usr/bin/python script/spider.py --config
config/prod.cfg >> /tmp/packtpub.log 2>&1
```

Systemd service

Create two files in /etc/systemd/system:

1. packtpub-crawler.service

```
[Unit]
Description=run packtpub-crawler

[Service]
User=USER_THAT_SHOULD_RUN_THE_SCRIPT
ExecStart=/usr/bin/python2.7 PATH_TO_PROJECT/packtpub-crawler/script/spider.py -c config/prod.cfg

[Install]
WantedBy=multi-user.target
```

2. packtpub-crawler.timer

```
[Unit]
Description=Runs packtpub-crawler every day at 7

[Timer]
OnBootSec=10min
OnActiveSec=1s
OnCalendar=*-*-* 07:00:00
Unit=packtpub_crawler.service
Persistent=true

[Install]
WantedBy=multi-user.target
```

Enable the script with `sudo systemctl enable packtpub_crawler.timer`. You can test the service with `sudo systemctl start packtpub_crawler.timer` and see the output with `sudo journalctl -u packtpub_crawler.service -f`.

Newsletter

The script downloads also the free ebooks from the weekly packtpub newsletter. The [URL](#) is generated by a Google Apps Script which parses all the mails. You can get the code [here](#), if you want to see the actual script, please clone the [spreadsheet](#) and go to Tools > Script editor....

To use your own source, modify in the config

```
url.bookFromNewsletter=https://goo.gl/kUciut
```

The URL should point to a file containing only the URL (no semicolons, HTML, JSON, etc).

You can also clone the [spreadsheet](#) to use your own Gmail account. Subscribe to the [newsletter](#) (on the bottom of the page) and create a filter to tag your mails accordingly.

Troubleshooting

- ImportError: No module named paramiko

Install paramiko with `sudo -H pip install paramiko --ignore-installed`

- Failed building wheel for cryptography

Install missing dependencies as described [here](#)

virtualenv

```
# install pip + setuptools
curl https://bootstrap.pypa.io/get-pip.py | python -

# upgrade pip
pip install -U pip

# install virtualenv globally
sudo pip install virtualenv

# create virtualenv
virtualenv env

# activate virtualenv
source env/bin/activate

# verify virtualenv
which python
python --version

# deactivate virtualenv
deactivate
```

Development (only for spidering)

Run a simple static server with

```
node dev/server.js
```

and test the crawler with

```
python script/spider.py --dev --config config/dev.cfg --all
```

Disclaimer

This project is just a Proof of Concept and not intended for any illegal usage. I'm not responsible for any damage or abuse, use it at your own risk.