
Miniflux Documentation

Release 2.0

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Miniflux is a minimalist and opinionated feed reader.

Miniflux **Unread** (52) Starred History Feeds Categories Settings Logout

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Miniflux is a self-hosted software to read RSS/Atom/JSON feeds.

- Miniflux 2 is a rewrite of Miniflux v1 in Golang/Postgres.
- **Miniflux 2 doesn't try to implement all features of Miniflux 1.**
- Miniflux 1 is not maintained anymore, the project is archived here: <https://github.com/miniflux/miniflux-legacy>.

1.1 License

Apache 2.0

Miniflux is a minimalist software. The purpose of this application is to read feeds. *Nothing else.*

2.1 Focus on Simplicity

- Having a gazillion of features makes the software hard to maintain, hard to troubleshoot and increase the number of bugs.
- This software doesn't try to satisfy the needs of everyone.

2.2 Why the user interface is ugly?

- The Miniflux layout is optimized to scan entries quickly.
- The design of Miniflux is inspired by [Hacker News](#), [Lobsters](#) and [Pinboard](#).

2.3 Why are you not developing my feature request?

- Developing a software takes a lot of time. Don't expect anyone to work for free.
- As mentioned above, the number of features is voluntarily limited. Nobody likes bloatware.
- Improving existing features is more important than adding new ones.

2.4 Why choose Golang as a programming language?

Go is probably the best choice for self-hosted software:

- Go is a simple programming language.

- Running code concurrently is part of the language.
- It's faster than a scripting language like PHP or Python.
- The final application is a binary compiled statically without any dependency.
- You just need to drop the executable on your server to deploy the application.
- You don't have to worry about what version of PHP/Python is installed on your machine.
- Packaging the software using RPM/Debian/Docker is straightforward.

2.5 Why Postgresql?

Miniflux is compatible only with Postgres.

- Supporting multiple databases increases the complexity of the software.
- We do not have the resources to test the software with all major versions of MySQL, MariaDB, Sqlite, and so on.
- ORM abstracts some interesting features provided by your database.
- Managing schema migrations with Sqlite is painful.
- Postgresql is powerful, rock solid and battle tested.
- Postgresql is a great independent open source software.
- Miniflux uses *hstore/jsonb/inet* data types, window functions, full-text search and handles user timezones with Postgres.

2.6 Why no Javascript framework?

Miniflux uses Javascript only where it's necessary.

- Rendering templates server side is very simple and fast enough for that kind of application.
- Using Javascript frameworks increase complexity.
- The Javascript ecosystem is moving all the time, sticking to the standard is probably more sustainable.
- Having too many dependencies is painful to maintain and update on the long term.

2.7 Why only ECMAScript 6?

Miniflux uses ES6 and the Fetch API.

- All modern browsers support ES6 nowadays.
- Only Internet Explorer doesn't support ES6, but who cares?
- Using a Javascript transpiler introduce another set of useless dependencies.

2.8 Why there is no mobile application?

Using the web UI on your smartphone is not so bad:

- Miniflux is a [progressive web app](#)
- The layout is responsive
- You can swipe entries horizontally
- The web browser is a pretty good sandbox, the application cannot access to the data stored on your phone
- It's cross platform: works on iOS and Android

The development of mobile clients is left to the open source community:

- Developing a native mobile application for each platform (iOS and Android) and different devices (smartphones and tablets) takes a lot of work
- The main developer of Miniflux is not a mobile application developer
- You have to pay a fee to publish your app on the store even if your app doesn't make any money

3.1 Reader

- Feed formats supported: Atom, RSS 1.0/2.0 and JSON
- OPML import/export
- Support multiple enclosures/attachments (Podcasts, videos, music, and images)
- Play videos from YouTube channels directly inside Miniflux
- Categories
- Bookmarks
- Fetch website icons (favicons)
- Save articles to third-party services
- Available in Chinese, Dutch, English, French, German, and Polish

3.2 Privacy

- Remove pixel trackers
- Fetch original links when the feed is coming from FeedBurner
- Open external links with the attributes `rel="noopener noreferrer" referrerpolicy="no-referrer"`
- Image proxy to avoid mixed content warnings with HTTPS
- Play Youtube videos by using the domain *youtube-nocookie.com*
- Block any external Javascript code to avoid tracking

3.3 Content Manipulation

- Fetch original article and returns relevant contents (Readability)
- Custom scraper rules based on CSS selectors
- **Custom rewriting rules**
 - Append image title for comics
 - Add Youtube video

3.4 User Interface

- Stylesheet optimized for readability
- Responsive design (works on desktop, tablet, and mobile devices)
- No fancy user interface
- Doesn't require to download an application from the App/Play Store
- You could add Miniflux to the home screen
- Keyboard shortcuts
- Touch events on mobile devices
- Themes: Default (white), Black (Dark mode) and Sans-Serif

3.5 Integration

- Send articles to Pinboard, Instapaper, Pocket, Wallabag, or Nunux Keeper
- Bookmarklet to subscribe to a website directly from any browsers
- Use existing mobile applications to read your feeds by using the Fever API
- REST API with clients written in Go and Python

3.6 Authentication

- Username/password
- Google (OAuth2)

3.7 Technical stuff

- Self-hosted
- Written in Go (Golang)
- Designed to run only with Postgresql
- Single static binary (no more dependency hell)

- Automatic HTTPS configuration with Let's Encrypt
- Use your own SSL certificate
- Supports HTTP/2.0 if TLS is configured
- Feeds are updated in the background by an internal scheduler
- External content is sanitized before being displayed
- Use content security policy that allows only application Javascript and block inline code and styles
- Works only in modern browsers
- Follows the [Twelve-Factor App](#) principle

4.1 Hardware

- Raspberry Pi, small virtual machine, platform as a service...
- Probably anything that can run Linux
- x86_64 or ARM architecture

4.2 Operating Systems

- GNU/Linux
- Darwin

4.3 Databases

- Postgresql >= 9.4

4.4 Web Browsers

A browser compatible with **ECMAScript 6** is required.

- Mozilla Firefox
- Chrome
- Safari
- Microsoft Edge

Warning: Internet Explorer is not supported.

5.1 Packages

Platform	Type	URL
Debian/Ubuntu	Official	https://github.com/miniflux/package-deb
RHEL/Fedora	Official	https://github.com/miniflux/package-rpm
Arch Linux	Community	https://aur.archlinux.org/packages/miniflux/

You can download pre-compiled Miniflux binaries and packages on the releases page: <https://github.com/miniflux/miniflux/releases>.

5.2 Manual Installation

1. Copy the binary somewhere
2. Make the file executable: `chmod +x miniflux`
3. Define the environment variable `DATABASE_URL` if necessary
4. CREATE EXTENSION `hstore` in the database or specify a user with `SUPERUSER` privileges. (*Details*)
5. Run the SQL migrations: `miniflux -migrate`
6. Create an admin user: `miniflux -create-admin`
7. Start the application: `miniflux`

You should configure a process manager like `systemd` or `supervisord` to supervise the Miniflux daemon. The Debian or RPM packages are doing that for you.

5.3 Debian Package Installation

You must have Debian ≥ 8 or Ubuntu ≥ 16.04 . When using the Debian package, the Miniflux daemon is supervised by systemd.

1. Install Debian package: `dpkg -i miniflux_2.0.10_amd64.deb`
2. Check process status: `systemctl status miniflux`
3. Define the environment variable `DATABASE_URL` if necessary
4. Run the SQL migrations: `miniflux -migrate`
5. Create an admin user: `miniflux -create-admin`

Systemd reads the [environment variables](#) from the file `/etc/miniflux.conf`. You must restart the service to take the new values into consideration.

The files to build the Debian packages are available here: <https://github.com/miniflux/package-deb>.

5.4 RPM Package Installation

You must have Fedora or CentOS/Redhat ≥ 7 . When you use the RPM package, the Miniflux daemon is supervised by systemd.

1. Install Miniflux RPM: `rpm -ivh miniflux-2.0.10-1.0.x86_64.rpm`
2. Define the environment variable `DATABASE_URL` if necessary
3. Run the SQL migrations: `miniflux -migrate`
4. Create an admin user: `miniflux -create-admin`
5. Enable the systemd service: `systemctl enable miniflux`
6. Start the process with systemd: `systemctl start miniflux`
7. Check process status: `systemctl status miniflux`

Systemd reads the [environment variables](#) from the file `/etc/miniflux.conf`. You must restart the service to take the new values into consideration.

The files to build the RPM packages are available here: <https://github.com/miniflux/package-rpm>.

5.5 Docker Usage

Pull the image and run the container: `docker run -d -p 80:8080 miniflux/miniflux:version` (Replace version). You will probably need to pass some environment variables like the `DATABASE_URL`.

You could also use Docker Compose. Here an example of `docker-compose.yml` file:

```
version: '3'
services:
  miniflux:
    image: miniflux/miniflux:latest
    ports:
      - "80:8080"
    depends_on:
```

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```
- db
environment:
  - DATABASE_URL=postgres://miniflux:secret@db/miniflux?sslmode=disable
db:
  image: postgres:10.1
  environment:
    - POSTGRES_USER=miniflux
    - POSTGRES_PASSWORD=secret
  volumes:
    - miniflux-db:/var/lib/postgresql/data
volumes:
  miniflux-db:
```

Remember that you still need to run the database migrations and create the first user:

```
# Run database migrations
docker exec -ti <container-name> /usr/local/bin/miniflux -migrate

# Create the first user
docker exec -ti <container-name> /usr/local/bin/miniflux -create-admin
```

The Dockerfile is available here: <https://github.com/miniflux/docker>.

Another way of doing the same thing is to populate the variables `RUN_MIGRATIONS`, `CREATE_ADMIN`, `ADMIN_USERNAME` and `ADMIN_PASSWORD`.

Here are a couple of tutorials to help you to install Miniflux (They are only examples).

6.1 Installing Miniflux on your own server

6.1.1 Ubuntu 16.04

1. Install Postgresql: `apt install postgresql`
2. Prepare the database:

```
# Switch to the postgres user
$ su - postgres

# Create a database user for Miniflux
$ createuser -P miniflux
Enter password for new role: *****
Enter it again: *****

# Create a database for miniflux that belongs to our user
$ createdb -O miniflux miniflux

# Create the extension hstore as superuser
$ psql miniflux -c 'create extension hstore'
CREATE EXTENSION
```

3. Install Miniflux:

```
# Download the latest Debian package from the release page
# In this example, this is the version 2.0.10
$ wget https://github.com/miniflux/miniflux/releases/download/2.0.10/miniflux_2.0.10_
↪amd64.deb
```

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```
# Install the package
$ dpkg -i miniflux_2.0.10_amd64.deb

# Run the SQL migrations
$ export DATABASE_URL=postgres://miniflux:secret@localhost/miniflux?sslmode=disable
$ miniflux -migrate
Current schema version: 0
Latest schema version: 16
Migrating to version: 1
Migrating to version: 2
Migrating to version: 3
[...]

# Create the first user
$ miniflux -create-admin
Enter Username: superman
Enter Password: *****

# Update the config file /etc/miniflux.conf
# Add/Edit this lines:
# DATABASE_URL=postgres://miniflux:secret@localhost/miniflux?sslmode=disable
# LISTEN_ADDR=0.0.0.0:80
$ vim /etc/miniflux.conf

# Authorize Miniflux to listen on port 80
$ setcap cap_net_bind_service=+ep /usr/bin/miniflux

# Restart the process to take the new config values into consideration
systemctl restart miniflux

# Check the logs to make sure the process is running properly
$ journalctl -u miniflux
[INFO] Starting Miniflux...
[INFO] [Worker] #0 started
[INFO] [Worker] #1 started
[INFO] [Worker] #2 started
[INFO] [Worker] #3 started
[INFO] Listening on "0.0.0.0:80" without TLS
```

4. Now, you can access to your Miniflux instance via `http://your-server/`

6.1.2 Fedora 28

Database installation and configuration:

1. Install Postgresql: `sudo dnf install -y postgresql-server postgresql-contrib`
2. Enable Postgres service: `sudo systemctl enable postgresql`
3. Initialize the database: `sudo postgresql-setup --initdb --unit postgresql`
4. Start Postgres service: `sudo systemctl start postgresql`
5. Create Miniflux database user: `sudo su - postgres and createuser -P miniflux`
6. Create Miniflux database: `createdb -O miniflux miniflux`
7. Create HSTORE extension: `psql miniflux -c 'create extension hstore'`

Note: More information available on the [Fedora Wiki](#).

Miniflux installation:

1. Install RPM package:

```
sudo dnf install https://github.com/miniflux/miniflux/releases/download/2.0.10/
↳miniflux-2.0.10-1.0.x86_64.rpm
```

2. Run SQL migrations and create first user:

```
export DATABASE_URL=postgres://miniflux:secret@127.0.0.1/miniflux?sslmode=disable

# Create database structure:
miniflux -migrate

# Create first user:
miniflux -create-admin
```

3. Start the service:

```
systemctl enable miniflux
systemctl start miniflux

# To watch the logs:
journalctl -f -u miniflux
```

5. Access your Miniflux instance via `http://your-server:8080/`

6.2 Running Miniflux with Docker Compose

You could use Docker to try quickly Miniflux on your local machine:

Create a `docker-compose.yml` file into a folder called `miniflux` for example.

```
version: '3'
services:
  miniflux:
    image: miniflux/miniflux:latest
    ports:
      - "80:8080"
    depends_on:
      - db
    environment:
      - DATABASE_URL=postgres://miniflux:secret@db/miniflux?sslmode=disable
      - RUN_MIGRATIONS=1
      - CREATE_ADMIN=1
      - ADMIN_USERNAME=admin
      - ADMIN_PASSWORD=test123
  db:
    image: postgres:10.1
    environment:
      - POSTGRES_USER=miniflux
      - POSTGRES_PASSWORD=secret
    volumes:
```

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```
- miniflux-db:/var/lib/postgresql/data
volumes:
  miniflux-db:
```

Then run `docker-compose up` and go to `http://localhost/`.

After the first user has been created, you should remove the variables `CREATE_ADMIN`, `ADMIN_USERNAME` and `ADMIN_PASSWORD`.

6.3 Deploying Miniflux on Heroku

Since the version 2.0.6, you can deploy Miniflux on [Heroku](#) in few seconds.

1. Clone the repository on your machine: `git clone https://github.com/miniflux/miniflux.git`
2. Switch to a stable version, for example `git checkout 2.0.10` (master is the development branch)
3. Create a new Heroku application: `heroku apps:create`
4. Add the Postgresql add-on: `heroku addons:create heroku-postgresql:hobby-dev`
5. Add environment variables to setup the application:

```
# This parameter will create all tables in the database.
heroku config:set RUN_MIGRATIONS=1

# The following parameters will create the first user.
heroku config:set CREATE_ADMIN=1
heroku config:set ADMIN_USERNAME=admin
heroku config:set ADMIN_PASSWORD=test123
```

6. Deploy the application on Heroku: `git push heroku master`
7. After the application is installed successfully, you don't need these variables anymore:

```
heroku config:unset CREATE_ADMIN
heroku config:unset ADMIN_USERNAME
heroku config:unset ADMIN_PASSWORD
```

- To watch the logs, use `heroku logs`.
- You can also run a one-off container to run the commands manually: `heroku run bash`. The Miniflux binary will be located into the folder `bin`.
- To update Miniflux, pull the new version from the repository and push to Heroku again.

6.4 Deploying Miniflux on AlwaysData

[AlwaysData](#) is a French shared hosting provider. You can install Miniflux in few minutes on their platform.

1. Open an account
2. Via the admin panel, create a Postgresql database and define a user/password
3. Create a website, choose "User Program", use a custom shell-script, for example `~/start.sh`

Configuration

Type*

User program

? Select the type of your application.

Command*

~/start.sh

? Program command, you can specify arguments. This command should start an HTTP server listening on 127.2.92.144:8100. For example: ~/myapp/app. You can use the ALWAYSDATA_HTTPD_IP and ALWAYSDATA_HTTPD_PORT environment variables.

Working directory

? Work directory path. If the path does not start with « / », it is relative to the root of your account.

Environment

? Environment variables, format: FOO=bar LOREM=ipsum

4. Enable the SSH access and open a session `ssh account@ssh-account.alwaysdata.net`
5. Install Miniflux:

```
wget https://github.com/miniflux/miniflux/releases/download/2.0.10/miniflux-linux-
↳amd64
mv miniflux-linux-amd64 miniflux
chmod +x miniflux
```

6. Create a shell script to start miniflux, let's call it `start.sh`:

```
#!/bin/sh

export LISTEN_ADDR=$ALWAYSDATA_HTTPD_IP:$ALWAYSDATA_HTTPD_PORT
export DATABASE_URL="host=postgresql-xxxxx.alwaysdata.net dbname=xxxx user=xxxx_
↳password=xxx sslmode=disable"







env --unset PORT ~/miniflux
```

7. Make the script executable: `chmod +x start.sh`
8. Run the db migrations and a create the first user:

```
export DATABASE_URL=".... replace me...."
./miniflux -migrate
./miniflux -create-admin
```

9. Go to `https://your-account.alwaysdata.net`

Via the admin panel, in Advanced > Processes, you can even see the Miniflux process running:

Command	PID	CPU time	Launch date	VSZ	RSS	Analyse	Terminate	Kill
/bin/sh /home/miniflux/start.sh	474050	00:00:00	05:35	4336	756			
/home/miniflux/miniflux	474056	00:00:00	05:35	29688	16260			

Upgrading to a New Version

Warning: Please, do not update the software blindly without reading the [ChangeLog](#). Always check for breaking changes if any.

7.1 Procedure

1. Disconnect all users by flushing all sessions: `miniflux -flush-sessions`
2. Stop the process
3. Backup your database
4. Check that your backup is really working
5. Run database migrations: `miniflux -migrate`
6. Start the process

7.2 Debian Package

Follow instructions mentioned above and run: `dpkg -i miniflux_2.x.x_amd64.deb`.

7.3 RPM Package

Follow instructions mentioned above and run: `rpm -Uvh miniflux-2.x.x-1.0.x86_64.rpm`.

7.4 Docker Image

- Pull the new image with the new tag: `docker pull miniflux/miniflux:2.x.x`
- Stop and remove the old container: `docker stop <container_name> && docker rm <container_name>`
- Start a new container with the latest tag: `docker run -d -p 80:8080 miniflux/miniflux:2.x.x`

If you use Docker Compose, define the new tag in the YAML file and restart the container.

CHAPTER 8

Configuration

Miniflux doesn't use any configuration file, **only environment variables**.

Systemd uses the file `/etc/miniflux.conf` to populate environment variables.

Variable Name	Description	Default Value
DEBUG	Enable debug logs if a value is set	None
WORKER_POOL_SIZE	Number of background workers	5
POLLING_FREQUENCY	Refresh interval in minutes for feeds	60 (minutes)
BATCH_SIZE	Number of feeds to send to the queue for each interval	10
DATABASE_URL	Postgresql connection parameters	postgres://postgres:postgres@localhost/miniflux2?sslmode=disable
DATABASE_MAX_CONNECTIONS	Maximum number of database connections	20
DATABASE_MIN_CONNECTIONS	Minimum number of database connections	1
LISTEN_ADDR	HTTP server listening address	127.0.0.1:8080
PORT	If defined, override LISTEN_ADDR to 0.0.0.0:\$PORT	None
BASE_URL	Base URL to generate HTML links and base path for cookies	http://localhost/
CLEANUP_FREQUENCY	Cleanup job frequency, remove old sessions and archive read entries	24 (hours)
HTTPS	Forces cookies to use secure flag and send HSTS headers	None
DISABLE_HSTS	Disable HTTP Strict Transport Security header if HTTPS is set	None
CERT_FILE	Path to SSL certificate	None
KEY_FILE	Path to SSL private key	None
CERT_DOMAIN	Use Let's Encrypt to get automatically a certificate for this domain	None
CERT_CACHE	Let's Encrypt cache directory	/tmp/cert_cache
OAuth2_PROVIDER	OAuth2 provider to use, at this time only google is supported	None
OAuth2_CLIENT_ID	OAuth2 client ID	None
OAuth2_CLIENT_SECRET	OAuth2 client secret	None
OAuth2_REDIRECT_URL	OAuth2 redirect URL	None
OAuth2_USER_CREATION	Set to 1 to authorize OAuth2 user creation	None
RUN_MIGRATIONS	Set to 1 to run database migrations	None
CREATE_ADMIN	Set to 1 to create an admin user from environment variables	None
ADMIN_USERNAME	Admin user login, used only if CREATE_ADMIN is enabled	None
ADMIN_PASSWORD	Admin user password, used only if CREATE_ADMIN is enabled	None
POCKET_CONSUMER_KEY	Pocket consumer API key for all users	None
PROXY_IMAGES	Avoids mixed content warnings for external images: http-only, all, or none	http-only

8.1 Database Connection Parameters

Miniflux use the [Golang library pq](#) to communicate with Postgres. Connection parameters are available [on this page](#).

The default value for DATABASE_URL is postgres://postgres:postgres@localhost/miniflux2?sslmode=disable. You don't necessary need to use the URL format.

If you would like to connect via a Unix socket, you could do:

```
export DATABASE_URL="user=postgres password=postgres dbname=miniflux2 sslmode=disable_
↪host=/path/to/socket/folder"
./miniflux
```

Warning: Password that contains special characters like ^ might be rejected since Miniflux 2.0.3. Golang v1.10 is now validating the password and will return this error: `net/url: invalid userinfo`. To avoid this issue, do not use the URL format for `DATABASE_URL` or make sure the password is URL encoded.

8.2 Running Miniflux on port 443 or 80

Ports less than 1024 are reserved for privileged users. If you have installed Miniflux with the RPM or Debian package, systemd run the process as the *miniflux* user.

To give Miniflux the ability to bind to privileged ports as a non-root user, add the capability `CAP_NET_BIND_SERVICE` to the binary:

```
setcap cap_net_bind_service=+ep /usr/bin/miniflux
```

Check that the capability is added:

```
getcap /usr/bin/miniflux
/usr/bin/miniflux = cap_net_bind_service+ep
```

Here, we assume you installed the Miniflux binary into `/usr/bin`.

8.3 Let's Encrypt Integration

You could use Let's Encrypt to handle the SSL certificate automatically and activate HTTP/2.0.

```
export CERT_DOMAIN=my.domain.tld
miniflux
```

- Your server must be reachable publicly on port 443 and port 80 (http-01 challenge)
- In this mode, `LISTEN_ADDR` is automatically set to `:https`
- A cache directory is required, by default `/tmp/cert_cache` is used, it could be overridden by using the variable `CERT_CACHE`

Note: Miniflux supports http-01 challenge since the version 2.0.2

8.4 Manual HTTPS Configuration

Here an example to generate your self-signed certificate:

```
# Generate the private key:
openssl genrsa -out server.key 2048
openssl ecparam -genkey -name secp384r1 -out server.key

# Generate the certificate:
openssl req -new -x509 -sha256 -key server.key -out server.crt -days 3650
```

Start the server like this:

```
# Configure the environment variables:
export CERT_FILE=/path/to/server.crt
export KEY_FILE=/path/to/server.key
export LISTEN_ADDR=":https"

# Start the server:
miniflux
```

Then you can access to your server by using an encrypted connection with the HTTP/2.0 protocol.

8.5 OAuth2 Authentication

OAuth2 allows you to sign in with an external provider. At this time, only Google is supported.

8.5.1 Google

1. Create a new project in Google Console
2. Create a new OAuth2 client
3. Set an authorized redirect URL: `https://my.domain.tld/oauth2/google/callback`
4. Define the OAuth2 environment variables and start the process

```
export OAUTH2_PROVIDER=google
export OAUTH2_CLIENT_ID=replace_me
export OAUTH2_CLIENT_SECRET=replace_me
export OAUTH2_REDIRECT_URL=https://my.domain.tld/oauth2/google/callback

miniflux
```

Now from the settings page, you can link your existing user to your Google account.

If you would like to authorize anyone to create user account, you must set `OAUTH2_USER_CREATION=1`. Since Google do not have the concept of username, the email address is used as username.

8.6 Reverse-Proxy Configuration with Subfolder

Since the version 2.0.2, you can host your Miniflux instance under a subfolder.

You must define the environment variable `BASE_URL` for Miniflux, for example:

```
export BASE_URL=http://example.org/rss/
```

You can use the reverse-proxy software of your choice, here an example with Nginx:

```
location /rss/ {
    proxy_pass http://127.0.0.1:8080/rss/;
    proxy_set_header Host $host;
    proxy_redirect off;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
}
```

This example assumes that you are running the Miniflux daemon on *127.0.0.1:8080*.

Now you can access your Miniflux instance at *http://example.org/rss/*. In this configuration, cookies are using the path */rss*.

Command Line Usage

9.1 Show Version

```
miniflux -version  
2.0.0
```

9.2 Show Build Information

```
miniflux -info  
Version: 2.0.0  
Build Date: 2017-11-20T22:45:00  
Go Version: go1.9
```

9.3 Enable Debug Mode

```
miniflux -debug  
[2018-02-05T02:38:32] [INFO] Debug mode enabled  
[2018-02-05T02:38:32] [INFO] Starting Miniflux...
```

9.4 Run Database Migrations

```
export DATABASE_URL=replace_me  
  
miniflux -migrate  
Current schema version: 0
```

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```
Latest schema version: 12
Migrating to version: 1
Migrating to version: 2
Migrating to version: 3
Migrating to version: 4
Migrating to version: 5
Migrating to version: 6
Migrating to version: 7
Migrating to version: 8
Migrating to version: 9
Migrating to version: 10
Migrating to version: 11
Migrating to version: 12
```

When you run the migrations, make sure that all Miniflux processes are stopped.

Creating extensions requires SUPERUSER privileges. Several solutions are available:

- 1) Give SUPERUSER privileges to miniflux user only during the schema migration:

```
ALTER USER miniflux WITH SUPERUSER;
-- Run the migrations (miniflux -migrate)
ALTER USER miniflux WITH NOSUPERUSER;
```

- 2) You could create the `hstore` extension as a postgres user with SUPERUSER privileges before to run the migrations.

```
sudo -u postgres psql $MINIFLUX_DATABASE
> CREATE EXTENSION hstore;
```

Warning: Password that contains special characters like `^` might be rejected since Miniflux 2.0.3. Golang v1.10 is now validating the password and will return this error: `net/url: invalid userinfo`. To avoid this issue, do not use the URL format for `DATABASE_URL` or make sure the password is URL encoded.

9.5 Create Admin User

```
miniflux -create-admin
Enter Username: root
Enter Password:
```

9.6 Reset User Password

```
miniflux -reset-password
Enter Username: myusername
Enter Password: ****
```

9.7 Flush All Sessions

Flushing all sessions disconnect all users.

```
miniflux -flush-sessions  
Flushing all sessions (disconnect users)
```

9.8 Reset All Feed Errors

Reset error counters and clear error messages for all feeds.

```
miniflux -reset-feed-errors
```


10.1 List View

 **Security updates for Tuesday** Open Source

lwn.net | 10 hours ago | Save | Original | ☆ Star

 **[\$] A new kernel polling interface** Open Source

lwn.net | 10 hours ago | Save | Original | ☆ Star


- **Save:** Send an article to third-party services if enabled (Pinboard, Instapaper, etc...)
- **Star/Unstar:** Add/Remove entry to/from bookmarks
- **Original:** Open original entry link in a new tab

Note: Since the version 2.0.7, the link “Save” will be shown only if at least one integration is configured.

10.2 Article View

Security updates for Friday

☆ [Star](#) | [Save](#) | [Fetch original content](#)

 LWN.net – *ris* [Open Source](#)

10 hours ago

« [Previous](#)

[Next](#) »

Security updates have been issued by Arch Linux (intel-ucode), Debian (gifsicle), Fedora (awstats and kernel), Gentoo (icoutils, pysaml2, and tigervnc), Mageia (dokuwiki and poppler), Oracle (kernel), SUSE (glibc, kernel, microcode_ctl, tiff, and ucode-intel), and Ubuntu (intel-microcode).

- **Fetch original content:** Download the original web page and try to find relevant contents

10.3 Edit Feed

Title


Site URL

Feed URL

Scraper Rules

Rewrite Rules

Category

Fetch original content

or [cancel](#)

- **Scraper Rules:** CSS selectors to use when fetching the original web page (Use Readability if nothing provided)
- **Rewrite Rules:** Name of the rewrite rules to use to alter item content
- **Fetch original content:** Always download original articles (consume more resources)

Keyboard Shortcuts

Sections navigation:

- g u: Go to unread page
- g b: Go to bookmark page
- g h: Go to the history page
- g f: Go to feed page
- g c: Go to categories page
- g s: Go to settings page
- ?: Show keyboard shortcuts help

Items navigation:

- Left Arrow: Go to previous item
- j: Go to previous item
- p: Go to previous item
- Right Arrow: Go to next item
- k: Go to next item
- n: Go to next item

Pages navigation:

- h: Go to previous page
- l: Go to next page

Actions:

- o: Open selected item
- v: Open original link to a new tab
- m: Mark selected item as read/unread

- A: Mark current page as read
- d: Fetch original web page and apply scraper rules or readability
- f: Star or unstar the current entry
- s: Save article to configured third-party services
- /: Set focus on search form
- Escape: Close modal dialogs

Note: Mozilla Firefox will block the opening of a new tab if you use the shortcut `v`. You must authorize Miniflux to open new tabs in your Firefox settings.

12.1 Fever API

Miniflux implements the Fever API in addition to its own REST API. The Fever API allows you to use existing mobile applications to read your feeds instead of the web user interface.

To activate the Fever API, go into the integration section and choose a username/password.

Fever

Activate Fever API

Fever Username

foobar

Fever Password

••••••••

The API endpoint is `https://example.org/fever/`

12.1.1 Compatible Apps

- Reeder (iOS/Mac OS)
- Unread (iOS)

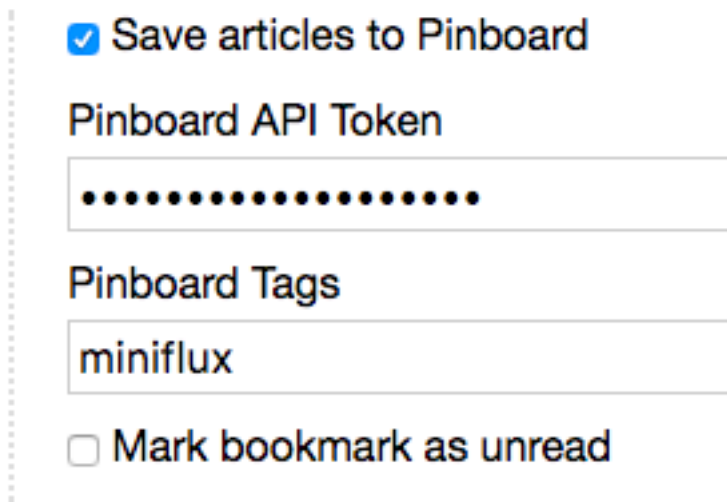
Note:

- Saving an entry will add a new bookmark and save the article
 - Only the JSON format is supported
 - Refreshing feeds is not possible with Reeder because no user information is sent
 - Links, sparks, and kindlings are not supported
-

12.2 Pinboard

You could save articles to [Pinboard](#).

Pinboard



The screenshot shows a settings panel for Pinboard integration. It features a vertical dashed line on the left side. The first option is a checked checkbox labeled "Save articles to Pinboard". Below it is the label "Pinboard API Token" followed by a text input field containing a series of black dots. The next option is the label "Pinboard Tags" followed by a text input field containing the text "miniflux". The final option is an unchecked checkbox labeled "Mark bookmark as unread".

To activate this service, go to the integration section and enter your Pinboard API credentials. You must use the API token, not your password.

12.3 Instapaper

You could save articles to [Instapaper](#).

Instapaper

Save articles to Instapaper

Instapaper Username

Instapaper Password

To activate this service, go to the integration section and enter your Instapaper credentials.

12.4 Pocket

12.4.1 Configuration

To configure the Pocket integration on your own Miniflux instance, you need to create an application on Pocket's website.

Go to <https://getpocket.com/developer/apps/new> and create a new application.

- You can define the *Pocket Consumer Key* for all users by using the environment variable `POCKET_CONSUMER_KEY`.
- Or, you can set the *Pocket Consumer Key* only for your user by using the form.

Pocket

Save articles to Pocket

Pocket Consumer Key

Pocket Access Token

If the environment variable is defined, the text field for the *Pocket Consumer API key* will be hidden.

Make sure the environment variable `BASE_URL` is defined properly to allow the authorization flow to work afterward.

12.4.2 Usage

Once the consumer key is configured, you need to get a *Pocket Access Token*. This token could be fetched automatically by using the authorization flow or manually by making some HTTP calls.

Pocket

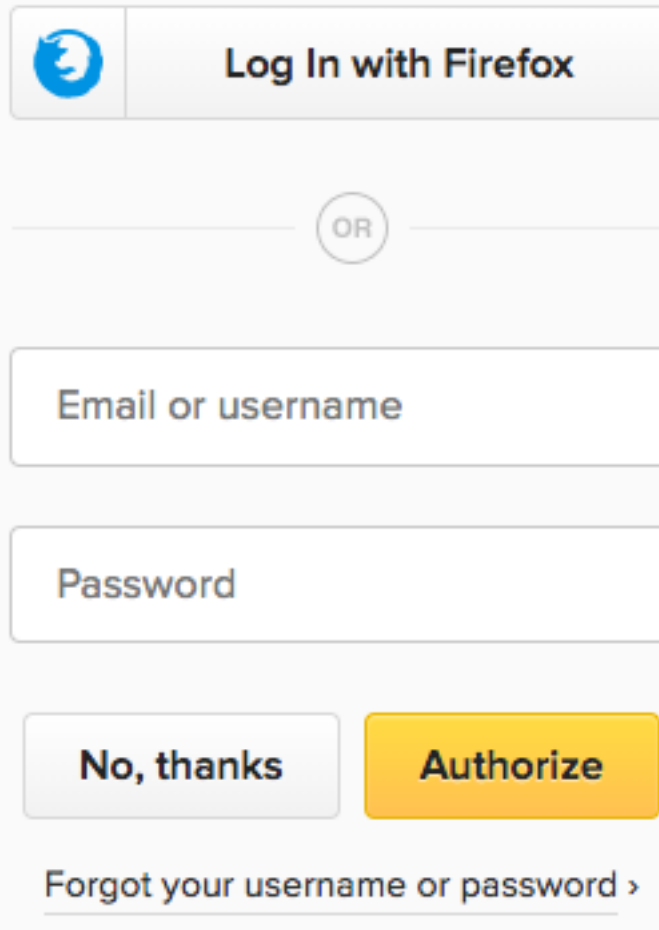
Save articles to Pocket

Pocket Access Token

[Connect your Pocket account](#)

The simplest solution is to use the link, “**Connect your Pocket account**”. This method redirects the end user to Pocket’s website and ask for authorization.

Log In and Authorize



The form is titled "Log In and Authorize". It features a "Log In with Firefox" button with the Firefox logo. Below this is a horizontal line with a circle containing the word "OR". There are two input fields: "Email or username" and "Password". At the bottom, there are two buttons: "No, thanks" and "Authorize". A link "Forgot your username or password >" is located below the buttons.

After the authorization is given, Miniflux will fetch the *Pocket Access Token* for you.

If you prefer to fetch *Pocket Access Token* manually, the process is described in [Pocket's developer documentation](#).

12.5 Wallabag

Wallabag is a self-hosted application for saving web pages.

Wallabag

Save articles to Wallabag

Wallabag API Endpoint

Wallabag Client ID

Wallabag Client Secret

Wallabag Username

Wallabag Password

- The API URL is the root URL of your instance, for example, if you have the hosted version use: `https://app.wallabag.it/`.
- To create a new API client, go to the section “API clients management” and choose “Create a new client”.

12.6 Nunux Keeper

Nunux Keeper is a “*personal content curation service*”. It’s an alternative to Pocket or Wallabag.

Nunux Keeper

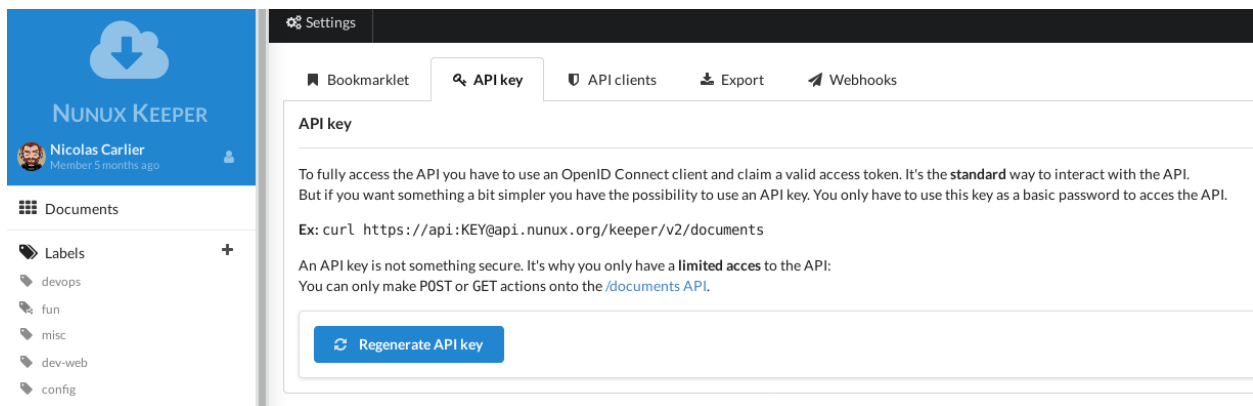
Save articles to Nunux Keeper

Nunux Keeper API Endpoint

`https://api.nunux.org/keeper`

Nunux Keeper API key

- The API URL is the root URL of your instance, for example, if you are using the hosted version: `https://api.nunux.org/keeper`.
- To create a new API key, go to the settings tab: “API key” and choose “Regenerate API key”.



The screenshot shows the user interface of Nunux Keeper. On the left is a sidebar with the user profile of Nicolas Carlier and a list of labels: devops, fun, misc, dev-web, and config. The main content area is titled 'Settings' and has a navigation bar with 'API key' selected. Below the navigation bar, the 'API key' section is displayed. It contains a text area for the API key, a paragraph explaining that an API key is used as a basic password for API access, and an example curl command: `curl https://api:KEY@api.nunux.org/keeper/v2/documents`. A warning states that API keys are not secure and only allow POST or GET actions on the /documents API. At the bottom of the section is a blue button labeled 'Regenerate API key'.

When an article contains only an extract of the content, you could fetch the original web page and apply a set of rules to get relevant contents.

Miniflux uses CSS selectors for custom rules. These custom rules can be saved in the feed properties (Select a feed and click on edit).

13.1 Examples

- `div#articleBody`: Fetch a *div* element with the ID *articleBody*
- `div.content`: Fetch all *div* elements with the class *content*
- `article, div.article`: Use a comma to define multiple rules

Miniflux includes a list of predefined rules for popular websites. You could contribute to the project to keep them up to date.

Under the hood, Miniflux uses the library [Goquery](#).

To improve the reading experience, it's possible to alter the content of feed items.

For example, if you are reading a popular comic website like XKCD, it's nice to have to image title (the *alt* attribute) added under the image. Especially on mobile devices when there is no hover event.

14.1 List of Rules

- `add_dynamic_image`: Tries to add the highest quality images from sites that use JavaScript to load images (e.g. either lazily when scrolling or based on screen size).
- `add_image_title`: Add each image's title as a caption under the image.
- `add_youtube_video`: Insert Youtube video inside the article (automatic for Youtube.com)

14.2 Adding Rewrite Rules

Miniflux includes a set of default rules for some websites, but you could define your own rules.

On the feed edit page, enter your custom rules in the field "Rewrite Rules" like this:

```
rule1,rule2
```

Separate each rule by a comma. As of now, only `add_dynamic_image` and `add_image_title` are available. Of course, other rules could be added later.

15.1 Authentication

The Miniflux API uses HTTP Basic authentication. The credentials are the username/password of your account.

15.2 Clients

There are 2 official API clients, one written in Go and another one written in Python.

15.2.1 Golang Client

- Repository: <https://github.com/miniflux/miniflux/tree/master/client>
- Reference: <https://godoc.org/miniflux.app/client>

Installation:

```
go get -u miniflux.app/client
```

Usage Example:

```
package main

import (
    "fmt"

    miniflux "miniflux.app/client"
)

func main() {
    client := miniflux.New("https://miniflux.example.org", "admin", "secret")
```

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```
// Fetch all feeds.
feeds, err := client.Feeds()
if err != nil {
    fmt.Println(err)
    return
}
fmt.Println(feeds)
}
```

15.2.2 Python Client

- Repository: <https://github.com/miniflux/miniflux-python>
- PyPi: <https://pypi.org/project/miniflux/>

Installation:

```
pip install miniflux
```

Usage example:

```
import miniflux

client = miniflux.Client("https://miniflux.example.org", "my_username", "my_secret_
↳password")

# Get all feeds
feeds = client.get_feeds()

# Refresh a feed
client.refresh_feed(123)

# Discover subscriptions from a website
subscriptions = client.discover("https://example.org")

# Fetch 10 starred entries
entries = client.get_entries(starred=True, limit=10)

# Fetch last 5 feed entries
feed_entries = client.get_feed_entries(123, direction='desc', order='published_at',
↳limit=5)

# Update a feed category
client.update_Feed(123, category_id=456)
```

15.3 API Reference

15.3.1 Status Codes

- 200: Everything is OK
- 201: Resource created/modified

- 204: Resource removed/modified
- 400: Bad request
- 401: Unauthorized (bad username/password)
- 403: Forbidden (access not allowed)
- 500: Internal server error

15.3.2 Error Response

```
{
  "error_message": "Some error"
}
```

15.3.3 Discover Subscriptions

Request:

```
POST /v1/discover
Content-Type: application/json

{
  "url": "http://example.org"
}
```

Response:

```
[
  {
    "url": "http://example.org/feed.atom",
    "title": "Atom Feed",
    "type": "atom"
  },
  {
    "url": "http://example.org/feed.rss",
    "title": "RSS Feed",
    "type": "rss"
  }
]
```

15.3.4 Get Feeds

Request:

```
GET /v1/feeds
```

Response:

```
[
  {
    "id": 42,
    "user_id": 123,
  }
]
```

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```

    "title": "Example Feed",
    "site_url": "http://example.org",
    "feed_url": "http://example.org/feed.atom",
    "rewrite_rules": "",
    "scraper_rules": "",
    "crawler": false,
    "checked_at": "2017-12-22T21:06:03.133839-05:00",
    "etag_header": "KyLxEflwnTGF5ecaiqZ2G0TxBCc",
    "last_modified_header": "Sat, 23 Dec 2017 01:04:21 GMT",
    "parsing_error_count": 0,
    "parsing_error_message": "",
    "category": {
      "id": 793,
      "user_id": 123,
      "title": "Some category"
    },
    "icon": {
      "feed_id": 42,
      "icon_id": 84
    }
  }
]

```

Notes:

- icon is null when the feed doesn't have any favicon.

15.3.5 Get Feed**Request:**

```
GET /v1/feeds/42
```

Response:

```

{
  "id": 42,
  "user_id": 123,
  "title": "Example Feed",
  "site_url": "http://example.org",
  "feed_url": "http://example.org/feed.atom",
  "rewrite_rules": "",
  "scraper_rules": "",
  "crawler": false,
  "checked_at": "2017-12-22T21:06:03.133839-05:00",
  "etag_header": "KyLxEflwnTGF5ecaiqZ2G0TxBCc",
  "last_modified_header": "Sat, 23 Dec 2017 01:04:21 GMT",
  "parsing_error_count": 0,
  "parsing_error_message": "",
  "category": {
    "id": 793,
    "user_id": 123,
    "title": "Some category"
  },
  "icon": {
    "feed_id": 42,

```

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```
    "icon_id": 84
  }
}
```

Notes:

- `icon` is `null` when the feed doesn't have any favicon.

15.3.6 Get Feed Icon

Request:

```
GET /v1/feeds/42/icon
```

Response:

```
{
  "id": 262,
  "data": "image/png;base64,iVBORw0KGgoAAA...",
  "mime_type": "image/png"
}
```

Notes:

- If the feed doesn't have any favicon, a 404 is returned.

15.3.7 Create Feed

Request:

```
POST /v1/feeds
Content-Type: application/json

{
  "feed_url": "http://example.org/feed.atom",
  "category_id": 22
}
```

Response:

```
{
  "feed_id": 262,
}
```

15.3.8 Update Feed

Request:

```
PUT /v1/feeds/42
Content-Type: application/json

{
  "title": "New Feed Title",
}
```

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```
"category": {
  "id": 22
}
}
```

Response:

```
{
  "id": 42,
  "user_id": 123,
  "title": "New Feed Title",
  "site_url": "http://example.org",
  "feed_url": "http://example.org/feed.atom",
  "rewrite_rules": "",
  "scraper_rules": "",
  "crawler": false,
  "checked_at": "2017-12-22T21:06:03.133839-05:00",
  "etag_header": "KyLxEflwnTGF5ecaiqZ2G0TxBCc",
  "last_modified_header": "Sat, 23 Dec 2017 01:04:21 GMT",
  "parsing_error_count": 0,
  "parsing_error_message": "",
  "category": {
    "id": 22,
    "user_id": 123,
    "title": "Another category"
  },
  "icon": {
    "feed_id": 42,
    "icon_id": 84
  }
}
```

Available fields:

- feed_url: (string)
- site_url: (string)
- title: (string)
- scraper_rules: (string)
- rewrite_rules: (string)
- crawler: (boolean)
- username: (string)
- password: (string)
- category_id: (int)

15.3.9 Refresh Feed

Request:

```
PUT /v1/feeds/42/refresh
```

Note:

- Returns 204 status code for success.
 - This API call is synchronous and can takes hundred of milliseconds.
-

15.3.10 Remove Feed

Request:

```
DELETE /v1/feeds/42
```

15.3.11 Get Feed Entry

Request:

```
GET /v1/feeds/42/entries/888
```

Response:

```
{
  "id": 888,
  "user_id": 123,
  "feed_id": 42,
  "title": "Entry Title",
  "url": "http://example.org/article.html",
  "comments_url": "",
  "author": "Foobar",
  "content": "<p>HTML contents</p>",
  "hash": "29f99e4074cdacca1766f47697d03c66070ef6a14770a1fd5a867483c207a1bb",
  "published_at": "2016-12-12T16:15:19Z",
  "status": "read",
  "starred": false,
  "feed": {
    "id": 42,
    "user_id": 123,
    "title": "New Feed Title",
    "site_url": "http://example.org",
    "feed_url": "http://example.org/feed.atom",
    "rewrite_rules": "",
    "scraper_rules": "",
    "crawler": false,
    "checked_at": "2017-12-22T21:06:03.133839-05:00",
    "etag_header": "KyLxEflwnTGF5ecaiqZ2G0TxBCC",
    "last_modified_header": "Sat, 23 Dec 2017 01:04:21 GMT",
    "parsing_error_count": 0,
    "parsing_error_message": "",
    "category": {
      "id": 22,
      "user_id": 123,
      "title": "Another category"
    },
    "icon": {
```

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```
        "feed_id": 42,  
        "icon_id": 84  
    }  
}  
}
```

Note:

- The field `comments_url` is available since Miniflux v2.0.5.

15.3.12 Get Entry

Request:

```
GET /v1/entries/888
```

Response:

```
{  
  "id": 888,  
  "user_id": 123,  
  "feed_id": 42,  
  "title": "Entry Title",  
  "url": "http://example.org/article.html",  
  "comments_url": "",  
  "author": "Foobar",  
  "content": "<p>HTML contents</p>",  
  "hash": "29f99e4074cdacca1766f47697d03c66070ef6a14770a1fd5a867483c207a1bb",  
  "published_at": "2016-12-12T16:15:19Z",  
  "status": "read",  
  "starred": false,  
  "feed": {  
    "id": 42,  
    "user_id": 123,  
    "title": "New Feed Title",  
    "site_url": "http://example.org",  
    "feed_url": "http://example.org/feed.atom",  
    "rewrite_rules": "",  
    "scraper_rules": "",  
    "crawler": false,  
    "checked_at": "2017-12-22T21:06:03.133839-05:00",  
    "etag_header": "KyLxEflwnTGF5ecaiqZ2G0TxBCc",  
    "last_modified_header": "Sat, 23 Dec 2017 01:04:21 GMT",  
    "parsing_error_count": 0,  
    "parsing_error_message": "",  
    "category": {  
      "id": 22,  
      "user_id": 123,  
      "title": "Another category"  
    },  
    "icon": {  
      "feed_id": 42,  
      "icon_id": 84  
    }  
  }  
}
```

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```

    }
  }
}

```

15.3.13 Get Feed Entries

Request:

```
GET /v1/feeds/42/entries?limit=1&order=id&direction=asc
```

Available filters:

- status: Entry status (read, unread or removed)
- offset
- limit
- order: "id", "status", "published_at", "category_title", "category_id"
- direction: "asc" or "desc"
- before (unix timestamp, available since Miniflux 2.0.9)
- after (unix timestamp, available since Miniflux 2.0.9)
- before_entry_id (int64, available since Miniflux 2.0.9)
- after_entry_id (int64, available since Miniflux 2.0.9)
- starred (boolean, available since Miniflux 2.0.9)

Response:

```

{
  "total": 10,
  "entries": [
    {
      "id": 888,
      "user_id": 123,
      "feed_id": 42,
      "title": "Entry Title",
      "url": "http://example.org/article.html",
      "comments_url": "",
      "author": "Foobar",
      "content": "<p>HTML contents</p>",
      "hash": "29f99e4074cdacca1766f47697d03c66070ef6a14770a1fd5a867483c207a1bb
↔",
      "published_at": "2016-12-12T16:15:19Z",
      "status": "read",
      "starred": false,
      "feed": {
        "id": 42,
        "user_id": 123,
        "title": "New Feed Title",
        "site_url": "http://example.org",
        "feed_url": "http://example.org/feed.atom",
        "rewrite_rules": "",
        "scraper_rules": ""
      }
    }
  ]
}

```

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```
    "crawler": false,
    "checked_at": "2017-12-22T21:06:03.133839-05:00",
    "etag_header": "KyLxEflwnTGF5ecaiqZ2G0TxBCc",
    "last_modified_header": "Sat, 23 Dec 2017 01:04:21 GMT",
    "parsing_error_count": 0,
    "parsing_error_message": "",
    "category": {
      "id": 22,
      "user_id": 123,
      "title": "Another category"
    },
    "icon": {
      "feed_id": 42,
      "icon_id": 84
    }
  }
}
```

15.3.14 Get Entries

Request:

```
GET /v1/entries?status=unread&direction=desc
```

Available filters:

- status: Entry status (read, unread or removed)
- offset
- limit
- order: "id", "status", "published_at", "category_title", "category_id"
- direction: "asc" or "desc"
- before (unix timestamp, available since Miniflux 2.0.9)
- after (unix timestamp, available since Miniflux 2.0.9)
- before_entry_id (int64, available since Miniflux 2.0.9)
- after_entry_id (int64, available since Miniflux 2.0.9)
- starred (boolean, available since Miniflux 2.0.9)

Response:

```
{
  "total": 10,
  "entries": [
    {
      "id": 888,
      "user_id": 123,
      "feed_id": 42,
      "title": "Entry Title",
      "url": "http://example.org/article.html",
      "comments_url": ""
    }
  ]
}
```

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```

    "author": "Foobar",
    "content": "<p>HTML contents</p>",
    "hash": "29f99e4074cdacca1766f47697d03c66070ef6a14770a1fd5a867483c207a1bb
↪",
    "published_at": "2016-12-12T16:15:19Z",
    "status": "unread",
    "starred": false,
    "feed": {
      "id": 42,
      "user_id": 123,
      "title": "New Feed Title",
      "site_url": "http://example.org",
      "feed_url": "http://example.org/feed.atom",
      "rewrite_rules": "",
      "scraper_rules": "",
      "crawler": false,
      "checked_at": "2017-12-22T21:06:03.133839-05:00",
      "etag_header": "KyLxEflwnTGF5ecaiqZ2G0TxBCc",
      "last_modified_header": "Sat, 23 Dec 2017 01:04:21 GMT",
      "parsing_error_count": 0,
      "parsing_error_message": "",
      "category": {
        "id": 22,
        "user_id": 123,
        "title": "Another category"
      },
      "icon": {
        "feed_id": 42,
        "icon_id": 84
      }
    }
  }
}
]

```

15.3.15 Update Entries

Request:

```

PUT /v1/entries
Content-Type: application/json

{
  "entry_ids": [1234, 4567],
  "status": "read"
}

```

Note:

- Returns 204 status code for success.

15.3.16 Toggle Entry Bookmark

Request:

```
PUT /v1/entries/1234/bookmark
```

Note:

- Returns 204 status code for success.

15.3.17 Get Categories

Request:

```
GET /v1/categories
```

Response:

```
[
  {"title": "All", "user_id": 267, "id": 792},
  {"title": "Engineering Blogs", "user_id": 267, "id": 793}
]
```

15.3.18 Create Category

Request:

```
POST /v1/categories
Content-Type: application/json

{
  "title": "My category"
}
```

Response:

```
{
  "id": 802,
  "user_id": 267,
  "title": "My category"
}
```

15.3.19 Update Category

Request:

```
PUT /v1/categories/802
Content-Type: application/json

{
  "title": "My new title"
}
```

Response:

```
{
  "id": 802,
  "user_id": 267,
  "title": "My new title"
}
```

15.3.20 Delete Category

Request:

```
DELETE /v1/categories/802
```

15.3.21 OPML Export

Request:

```
GET /v1/export
```

The response is a XML document (OPML file).

Note: This API call is available since Miniflux v2.0.1.

15.3.22 OPML Import

Request:

```
POST /v1/import
XML data
```

- The body is your OPML file (XML).
- Returns 201 Created if imported successfully.

Response:

```
{
  "message": "Feeds imported successfully"
}
```

Note: This API call is available since Miniflux v2.0.7.

15.3.23 Create User

Request:

```
POST /v1/users
Content-Type: application/json
```

```
{
  "username": "bob",
  "password": "test123",
  "is_admin": false
}
```

Response:

```
{
  "id": 270,
  "username": "bob",
  "language": "en_US",
  "timezone": "UTC",
  "theme": "default",
  "entry_sorting_direction": "asc"
}
```

Note:

- You must be an administrator to create users.
-

15.3.24 Update User

Request:

```
PUT /v1/users/270
Content-Type: application/json
```

```
{
  "username": "joe"
}
```

Available fields:

- username: (string)
- password: (string)
- is_admin: (boolean)
- theme: (string)
- language: (string)
- timezone: (string)
- entry_sorting_direction: “desc” or “asc” (available since Miniflux 2.0.9)

Response:

```
{
  "id": 270,
  "username": "joe",
  "language": "en_US",
```

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```
"timezone": "UTC",
"theme": "default",
"entry_sorting_direction": "asc"
}
```

Note:

- You must be an administrator to update users.
-

15.3.25 Get Current User

Request:

```
GET /v1/me
```

Response:

```
{
  "id": 1,
  "username": "admin",
  "is_admin": true,
  "theme": "default",
  "language": "en_US",
  "timezone": "America/Vancouver",
  "entry_sorting_direction": "desc",
  "last_login_at": "2018-06-01T19:54:30.723051-07:00",
  "extra": {}
}
```

Note: This API endpoint is available since Miniflux v2.0.8.

15.3.26 Get User

Request:

```
# Get user by user ID
GET /v1/users/270

# Get user by username
GET /v1/users/foobar
```

Response:

```
{
  "id": 270,
  "username": "bob",
  "is_admin": false,
  "language": "en_US",
  "timezone": "UTC",
  "theme": "default",
```

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```
"entry_sorting_direction": "asc",
"last_login_at": "2017-12-27T16:40:58.841841-05:00",
"extra": {
  "google_id": "42424242424242"
}
}
```

Note:

- You must be an administrator to fetch users.
 - The extra field is a dictionary of optional values.
-

15.3.27 Get Users

Request:

```
GET /v1/users
```

Response:

```
[
  {
    "id": 270,
    "username": "bob",
    "is_admin": false,
    "language": "en_US",
    "timezone": "UTC",
    "theme": "default",
    "entry_sorting_direction": "asc",
    "last_login_at": "2017-12-27T16:40:58.841841-05:00",
    "extra": {}
  }
]
```

Note:

- You must be an administrator to fetch users.
 - The extra field is a dictionary of optional values.
-

15.3.28 Delete User

Request:

```
DELETE /v1/users/270
```

Note:

- You must be an administrator to delete users.
-

15.3.29 Healthcheck

The healthcheck endpoint is useful for monitoring and load-balancer configuration.

Request:

```
GET /healthcheck
```

Response:

```
OK
```

Return a status code 200 when the service is up.

16.1 Requirements

- Git
- Go >= 1.11

16.2 Checkout the source code

Fork the project and clone the repository locally.

Since Go 1.11, you don't need to work inside the `$GOPATH`. You can checkout the source code anywhere on your filesystem.

Miniflux is using [Go Modules](#) to manage dependencies.

16.3 Build a binary of the application

```
# Build all binaries for all supported platforms
make build

# Build Linux binary for amd64 architecture
make linux-amd64

# ARM 64 bits (arm64v8)
make linux-armv8

# ARM 32 bits variant 7 (arm32v7)
make linux-armv7
```

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```
# ARM 32 bits variant 6 (arm32v6)
make linux-armv6

# ARM 32 bits variant 5 (arm32v5)
make linux-armv5

# Mac OS (amd64)
make darwin

# FreeBSD (amd64)
make freebsd
```

16.4 Remove precompiled binaries

```
make clean
```

16.5 Run the software locally

```
make run
```

This command execute `go generate` and `go run main.go`.

16.6 Regenerate embedded files

To avoid any dependencies, all assets (Javascript, CSS, images, translations) are automatically included in the source code.

```
go generate
```

16.7 Linter

```
make lint
```

16.8 Unit tests

```
make test
```

16.9 Integration tests

Integration tests are testing API endpoints with a real database.

You need to have Postgresql installed locally preconfigured with the user “postgres” and the password “postgres”.

To run integration tests, execute the following command:

```
make integration-test ; make clean-integration-test
```

If the test suite fail, you will see the logs of Miniflux.

17.1 Translation files

Translations are just a simple JSON file. This is a mapping table between English and the language, for example:

```
{
  "Username": "Nom d'utilisateur",
  "Password": "Mot de passe",
  "Unable to parse Atom feed: %v.": "Impossible de lire ce flux Atom: %v."
}
```

Placeholders are the ones used by the package `fmt`.

17.2 Plural forms

Some languages have different rules regarding plurals. These rules are defined in the file `locale/plurals.go`. You could add more rules if yours is not available.

In the JSON file, a plural translation is defined like that:

```
{
  "plural.feed.error_count": [
    "%d error",
    "%d errors"
  ]
}
```

This example is for the English language, the plural form is `plurals=2; plural=(n != 1);`. For one error, we will have `1 error`, for 2 or more errors: `3 errors`.

You could find the different plural forms here:

- <https://localization-guide.readthedocs.io/en/latest/110n/pluralforms.html>

- http://www.unicode.org/cldr/charts/29/supplemental/language_plural_rules.html

17.3 How to add a new language?

17.3.1 1) Checkout the source code from the repository

Fork the project, fetch the source code locally and add your fork as Git remote (*Details*).

17.3.2 2) Create a new translation file

- In the folder `locale/translations`, create a new JSON file, for example, `de_DE.json` for German.
- You could copy the translations from `fr_FR.json` and replace the strings.

17.3.3 3) Add the language to the list

Open the file `locale/locale.go`, and edit the function `AvailableLanguages()`.

```
func AvailableLanguages() map[string]string {
    return map[string]string{
        "en_US": "English",
        "fr_FR": "Français",
    }
}
```

This function returns a mapping table of available languages. On the left, you have the language code and on the right the language name written in native language.

17.3.4 4) Test the translations

Translation files are embedded into the application executable. You must compile the software to see the changes.

```
make run
```

You must have a local development environment configured properly.

17.3.5 5) Create a branch and send a pull-request

Your pull-request should contains only 3 files:

- `locale/translations/xx_XX.json`
- `locale/locale.go`
- `locale/translations.go`

If you don't know how to send a pull-request, here is the documentation of GitHub: <https://help.github.com/articles/creating-a-pull-request/#creating-the-pull-request>

Migration from Miniflux 1.2.x

Miniflux 2.x is not backward compatible with Miniflux 1.x.

18.1 Differences between Miniflux 1.2 and Miniflux 2.0

- Miniflux 2 supports multiple attachments.
- Miniflux 2 uses categories instead of groups, only one category can be assigned to a feed.
- Miniflux 2 have fewer settings.
- Miniflux 2 doesn't have public RSS feed or cronjobs.
- Miniflux 2 doesn't use API tokens anymore, for the Fever API, choose your own password and for the REST API use your account password.
- Miniflux 2 stores favicons into the database instead of using the local filesystem.
- Miniflux 2 themes are embedded into the application.
- Miniflux 2 doesn't support RTL languages.
- Miniflux 2 supports only Postgresql.
- Miniflux 2 is written in Go (Golang) instead of PHP.

18.2 OPML Import

If you don't care about your previous data, export your feeds from Miniflux 1.x in OPML and import them into Miniflux 2.

18.3 Migration Script

There is a migration script in [Miniflux Legacy repository](#): `scripts/migrate-v2.php`.

- This script requires direct access to the old and the new database.
- The first group linked to a feed will become the category associated with the imported feed.
- Only bookmarked items are migrated.
- Since entries are not identified in the same way in Miniflux 2, you may have duplicated entries when refreshing your imported feeds.

18.3.1 Step 1

Make sure you are using the latest version of Miniflux 1.2.x.

18.3.2 Step 2

Install Miniflux 2 without creating any users. Create only the database schema (just run the migrations).

18.3.3 Step 3

Go into the Miniflux 1.2.x directory and run the script:

```
php scripts/migrate-v2.php --dsn="pgsql:host=localhost;dbname=miniflux2;user=postgres;
↳password=postgres"

Destination is "pgsql:host=localhost;dbname=miniflux2;user=postgres;password=postgres"
* 2 user(s) to migrate
* Migrating user: #254 => #284
* Migrating integrations
* Migrating categories
* Migrating feeds
* Migrating entries
[...]
```

The script takes the [PDO DSN](#) of Miniflux 2 database as argument. Adjust the parameters to your own environment.

Frequently Asked Questions

19.1 Feature X was available in Miniflux 1?

Miniflux 2 doesn't try to reimplement all features of Miniflux 1. The minimalist approach is pushed a little bit further. If you really miss something, **you must contribute to the project**, but remember, **you have to keep the minimalist philosophy of Miniflux**.

19.2 Why are you not developing my feature request?

- Developing a software takes a lot of time.
- This is a free and open source project, no one owes you anything.
- If you miss something, contribute to the project.
- Don't expect anyone to work for free.
- As mentioned above, the number of features is voluntarily limited. Nobody likes bloatware.
- Improving existing features is more important than adding new ones.

19.3 Why Miniflux stores favicons into the database?

Miniflux follows the [the Twelve Factors principle](#). Nothing is stored on the local file system. The application is designed to run on ephemeral containers without persistent storage.

19.4 How to create themes for Miniflux 2?

As of now, Miniflux 2 doesn't have any mechanism to load external stylesheets to avoid dependencies. Themes are embedded into the binary.

If you would like to submit a new official theme, you must send a pull-request. But do not forget that **you will have to maintain your theme over the time**, otherwise, your theme will be removed from the code base.

19.5 Why there is no plugin system?

- Because this software has a minimalist approach.
- Because implementing a plugin system increase the complexity of the software.
- Because people do not maintain their plugins after a while.

19.6 What is “Save this article”?

“Save” sends the feed entry to third-party services like Pinboard or Instapaper if configured.

19.7 How are items removed from the database?

When a subscription is refreshed, entries marked as “removed” and not visible anymore in the XML feed are removed from the database.

19.8 What “Flush History” does?

“Flush History” changes the status of entries from “read” to “removed” (except for bookmarks). Entries with the status “removed” are not visible in the user interface.

19.9 Is there any browser extensions for Miniflux?

- Miniflux Notifications: [Chrome Web Store](#) - [Source Code](#)

19.10 Which binary do I need to use on my Raspberry Pi?

Raspberry Pi Model	Miniflux Binary
A, A+, B, B+, Zero	miniflux-linux-armv6
2 and 3	miniflux-linux-armv7

19.11 Which binary do I need to use on Scaleway ARM machines?

Server Type	Miniflux Binary	uname -m
Scaleway C1	miniflux-linux-armv6	armv7l
Scaleway ARM64	miniflux-linux-armv8	aarch64

19.12 Which Docker architecture should I use?

Pulling the `latest` tag or a specific version should download the correct image according to your machine.

Docker Architecture	uname -m	Example
amd64	x86_64	
arm32v6	armhf	Raspberry Pi
arm32v6	armv7l	Scaleway C1
arm64v8	aarch64	Scaleway ARM64

If you use the wrong architecture, Docker will return an error like this one: `standard_init_linux.go:178: exec user process caused "exec format error"`.

Note: Multi-arch Docker images are available only since Miniflux v2.0.12

19.13 Why SQL migrations are not executed automatically?

- Because it's a source of problems.
- Only one process should manipulate the database schema at once.
- If you run multiple containers with an orchestrator that may cause issues.
- You can still run the migrations by defining the variable `RUN_MIGRATIONS=1`.