

Harpokrat User documentation



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About this document

Document information

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2020/08/01	0.1	All	Creation of the base of the document
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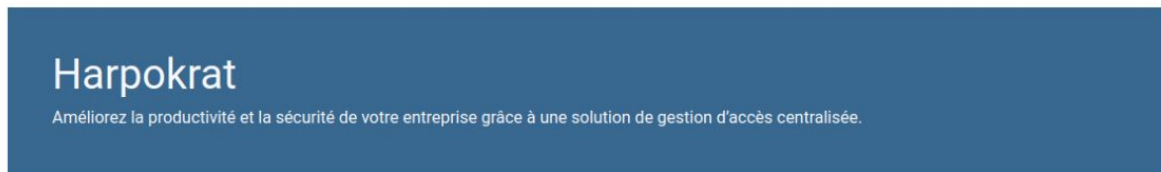
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Web client

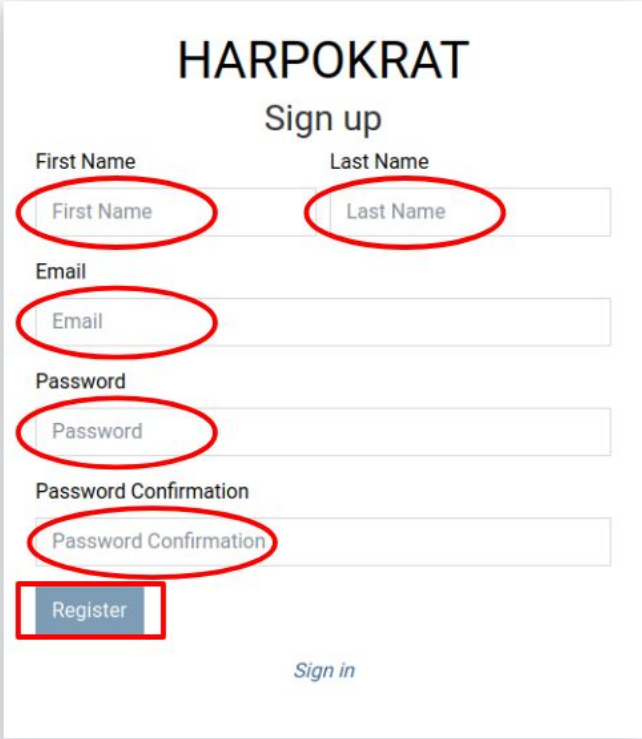
The web client, as the name suggests, is the main client and it is available at <https://www.harpokrat.com/>. It allows users to create and manage a HPK account as well as passwords. Below a list of all the possible actions.



Users can log in into an existing account by pressing the “log in” button



Users can also create a new account by pressing the “register” button.



The image shows a 'Sign up' form for 'HARPOKRAT'. The form is titled 'HARPOKRAT' in large bold letters, followed by 'Sign up' in a smaller font. Below the title, there are five input fields: 'First Name', 'Last Name', 'Email', 'Password', and 'Password Confirmation'. Each of these fields has a red oval drawn around it. At the bottom left of the form is a blue 'Register' button with a red border. At the bottom right is a link that says 'Sign in' in blue italicized text.

HARPOKRAT

Sign up

First Name Last Name

Email

Password

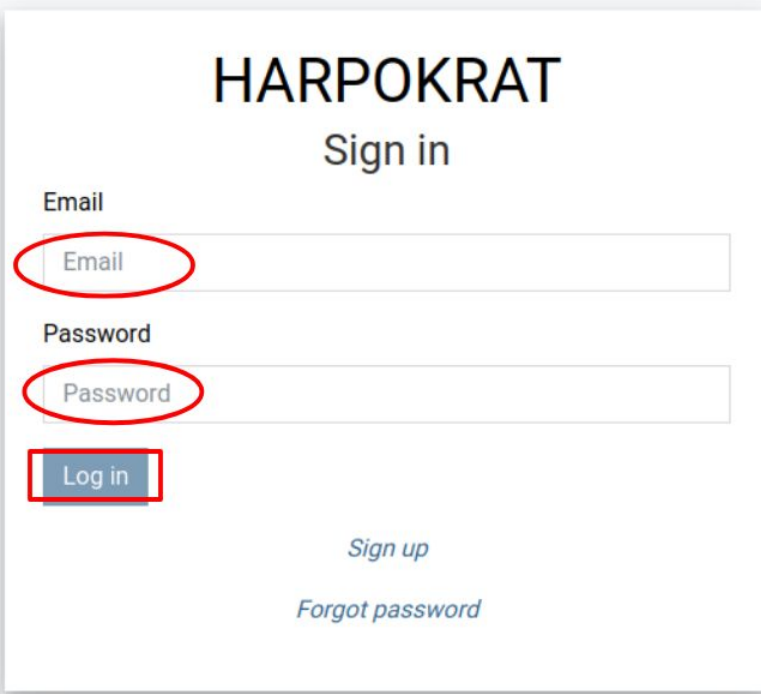
Password Confirmation

Register

Sign in

In order to create an account users must fill in multiple informations:

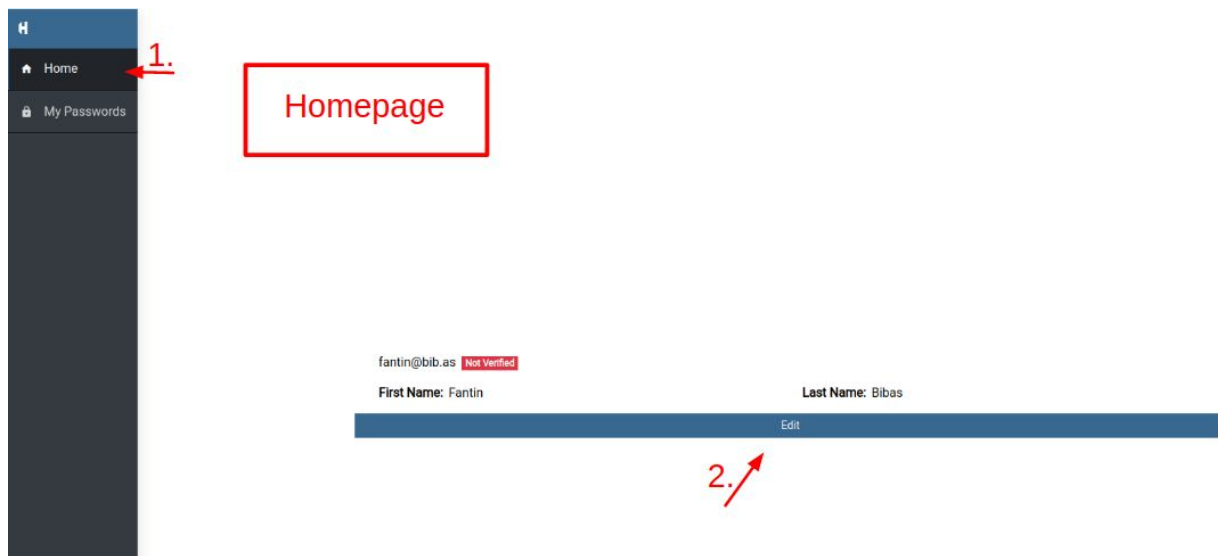
- First Name: the user first name.
- Last Name: the user last name.
- Email: the user email.
- Password: the user password.
- Password Confirmation: the same value as the password, to prevent mistakes.



The image shows a sign-in form for 'HARPOKRAT'. The form has a title 'HARPOKRAT' and a subtitle 'Sign in'. It contains two input fields: 'Email' and 'Password'. Both fields are highlighted with red circles. Below the input fields is a 'Log in' button, which is highlighted with a red rectangle. At the bottom of the form, there are two links: 'Sign up' and 'Forgot password'.

To sign in users must also fill in some informations and already be registered:

- Email: the existing user email.
- Password: the existing user password.



Once signed in users can click on the “home” button (fig 1) to access the home page. They can then edit their details by pressing the “edit” button (fig 2).

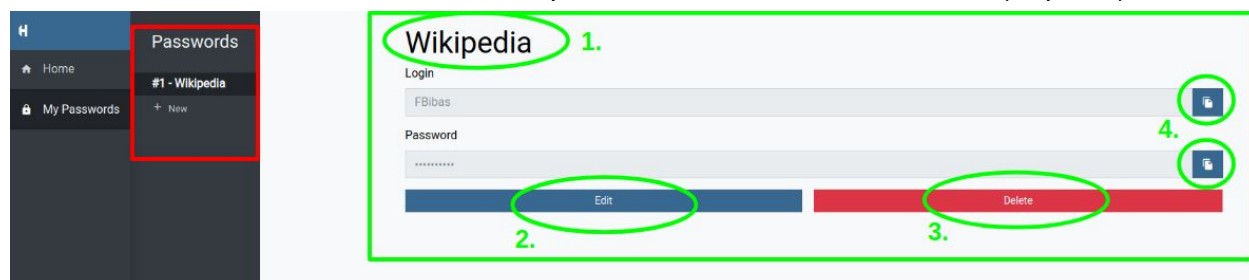


The 'Edit Details' form contains the following fields and a button, all of which are circled in red:

- First Name:** A text input field containing the value 'Fantin'.
- Last Name:** A text input field containing the value 'Bibas'.
- Email:** A text input field containing the value 'fantin@bib.as'.
- Password:** A password input field containing the text 'Password'.
- Password Confirmation:** A password input field containing the text 'Password Confirmation'.
- Save:** A blue button located at the bottom left of the form.

When editing their details, multiple fields can be changed:

- First Name: the user's first name.
- Last Name: the user's last name.
- Email: the user's email.
- Password: the user's password (required)
- Password confirmation: the user's password, used to avoid mistakes (required)



Users can then press the “My Passwords” button to view their passwords. They can then select an existing password to view it (fig 1). They can edit it by pressing the edit button (fig 2) or delete it (fig 3). They can also copy the login / password to the clipboard (fig 4).

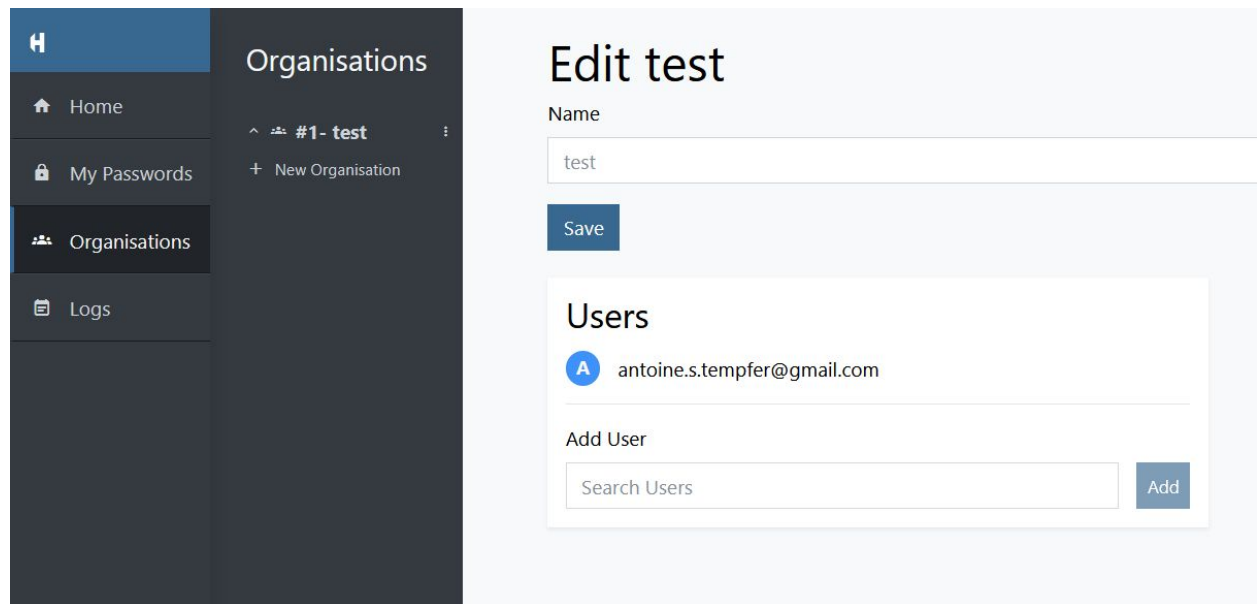
The screenshot shows the 'New Secret' form in the Harpokrat application. On the left, a sidebar contains a 'Passwords' section with a '+ New' button highlighted by a red box and a red arrow. The main area displays the 'New Secret' form with the following fields: 'Name', 'Login', 'Password', and 'Domain'. Each of these fields has a text input box with the same label as the field name, and each input box is circled in red. At the bottom of the form, there is a 'Save' button, which is also highlighted by a red box.

Users can also create new secrets by clicking the “+ New” button at the bottom of the passwords list. They must then fill in some informations:

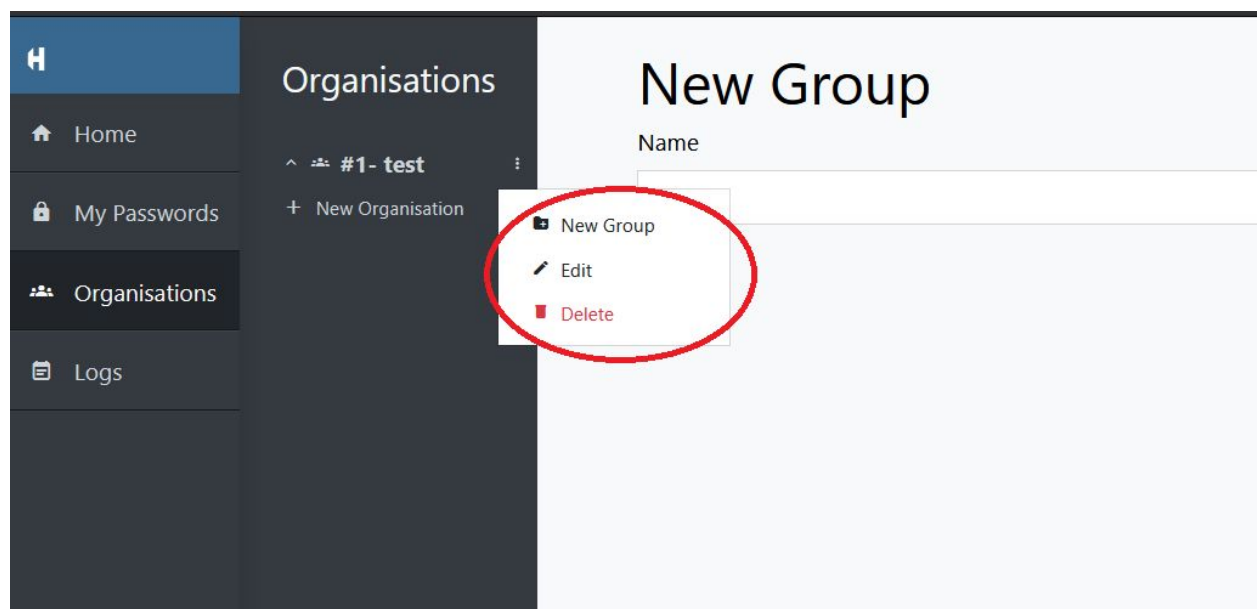
- Name: the name for the new secret.
- Login: the login used for the secret.
- Password: the password used for the secret
- Domain: the domain (website) the secret is used on..

The screenshot shows the 'New Organisation' form in the Harpokrat application. On the left, a sidebar contains an 'Organisations' section with a '+ New Organisation' button highlighted by a red box. The 'Organisations' tab in the sidebar is also highlighted by a red box. The main area displays the 'New Organisation' form with a 'Name' field, which has a text input box circled in red. At the bottom of the form, there is a 'Save' button, which is also highlighted by a red box.

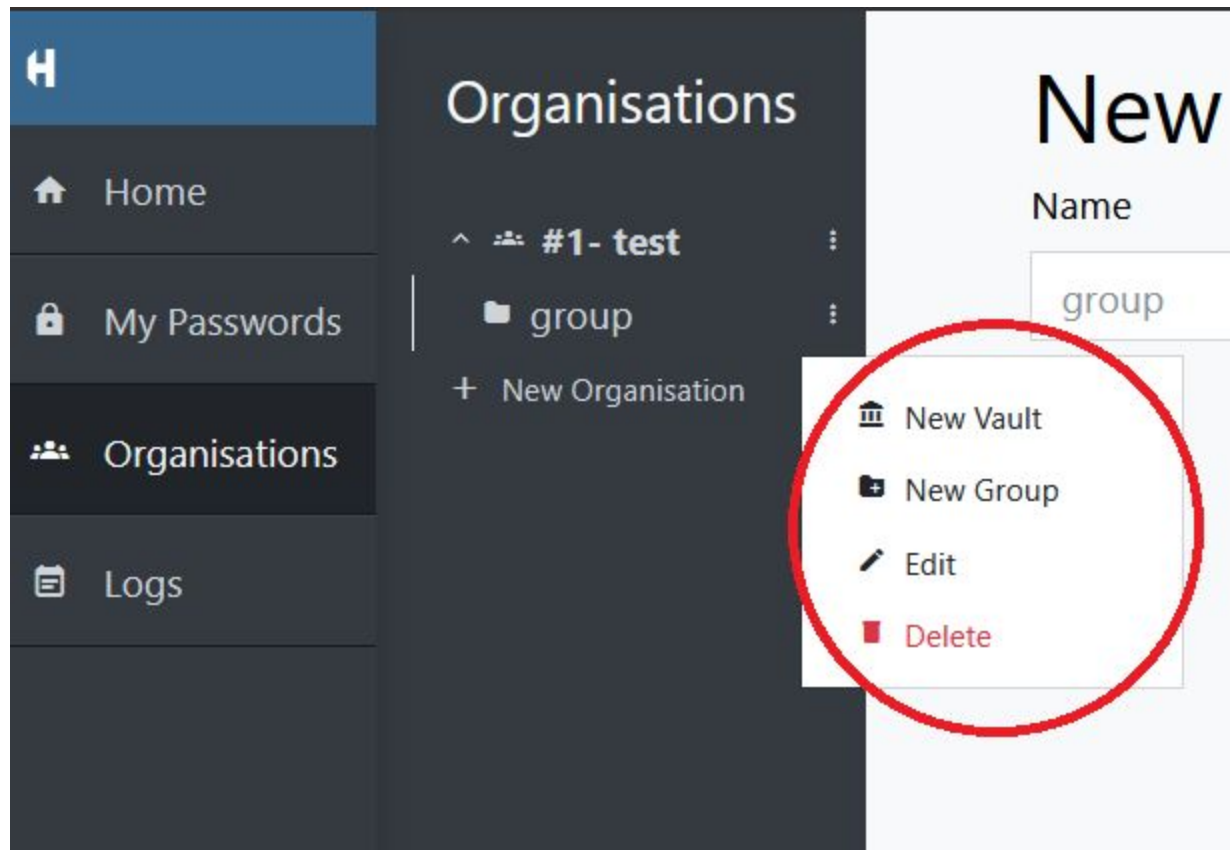
Users can create and manage organisations using the organisations tab. A new organisation can be created using the “+ New Organisation” button and filling the organisation name.



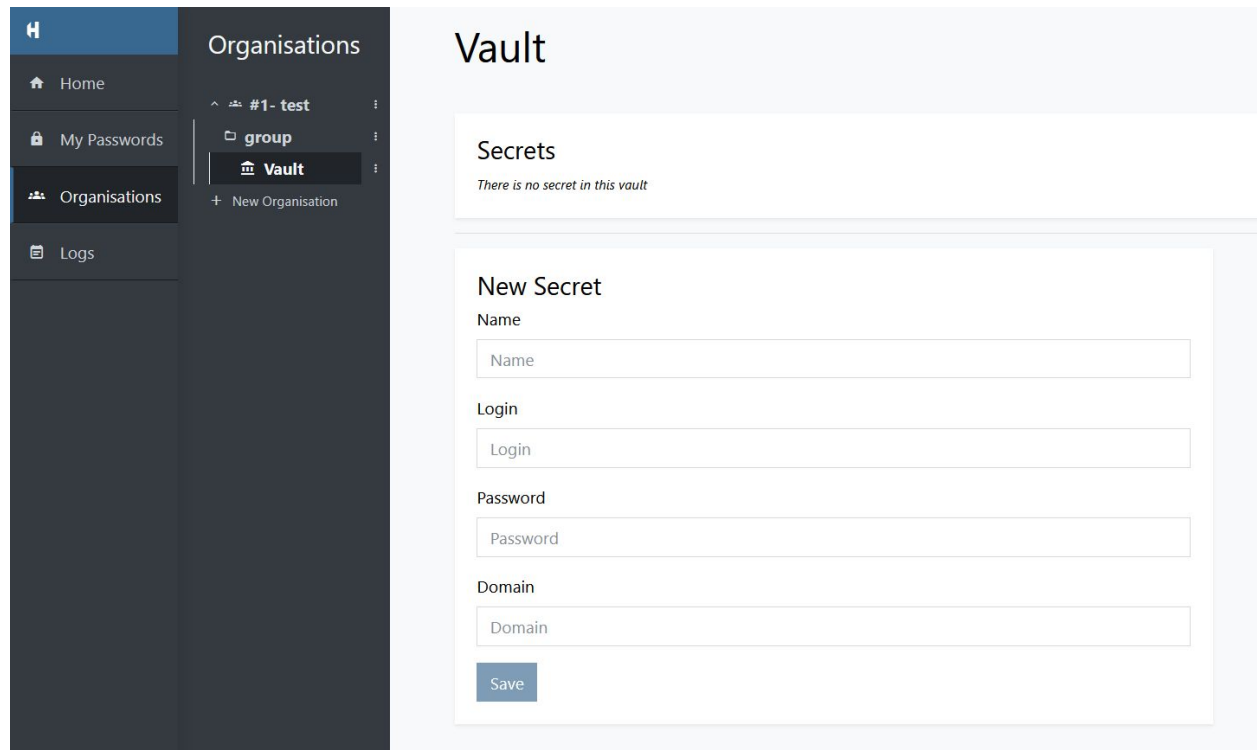
When clicking an existing organisation the user can edit the name and add new users to the organisation. Existing users different than yourself can also be removed.



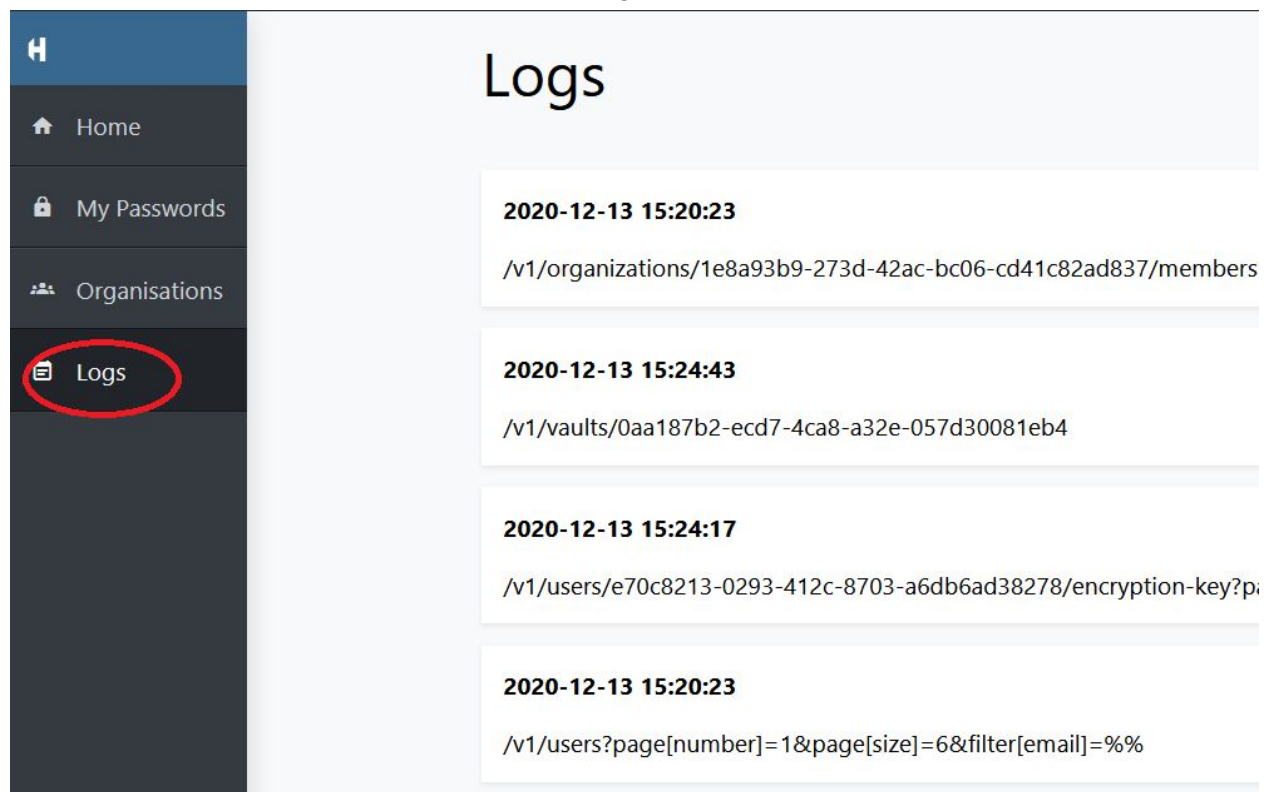
When expanding the menu of an organisation it is possible to add a new group, edit the organisation and remove the organisation.



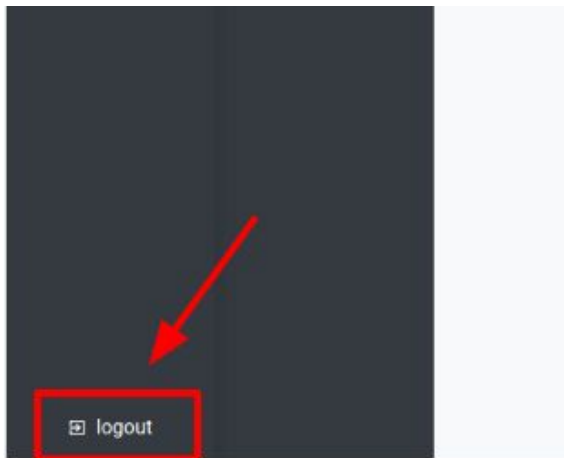
When expanding the menu of a group, it is possible to add a vault, add a new child group, edit the group or delete it.



After selecting a vault. Users can see the list of secrets contained in the vault and add a new secret to it (refer to above instructions on adding a secret for more details).



Logs can be seen by the user under the “logs” tab. The user can see all actions that have been performed under his account.



Users can log out of their sessions by pressing the “logout” button at the bottom of the sidebar

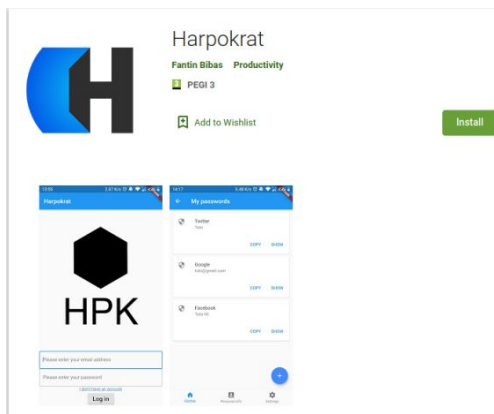
Mobile client

The mobile app has been developed to work on IOS and Android using the Flutter framework. This means that the application has the exact same visual and behavior on both platforms.

Installation

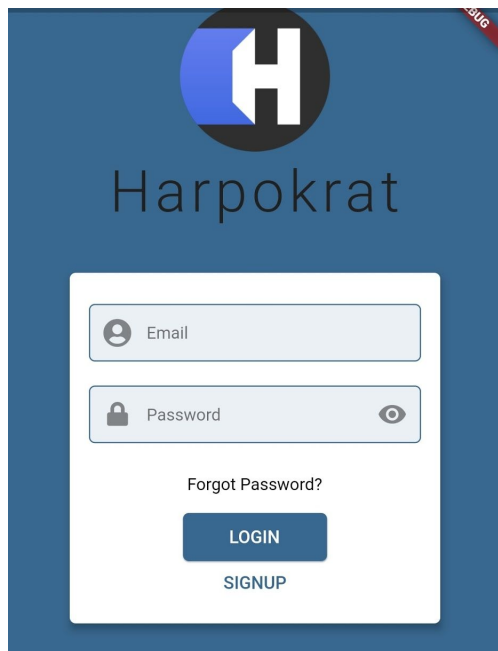
Right now the application is only available on the Google play store at this address:

<https://play.google.com/store/apps/details?id=com.harpokrat.android>



The IOS version will be available soon but isn't yet because of the high developer license fee we have to pay.

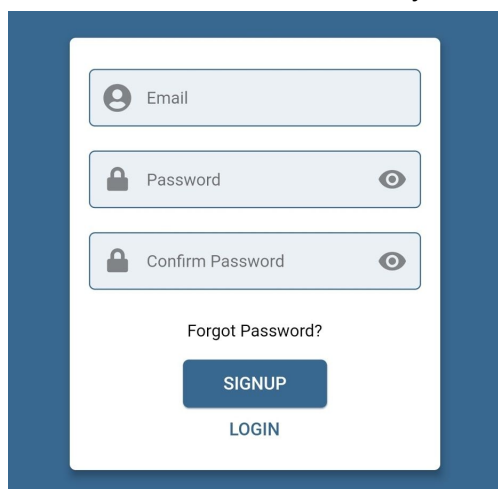
Connection

The image shows a login form for Harpokrat. At the top, there is a logo consisting of a blue circle with a white 'H' inside. Below the logo, the word 'Harpokrat' is written in a large, dark font. The form itself is a white rectangle with rounded corners. It contains two input fields: 'Email' with a person icon and 'Password' with a lock icon and an eye icon to toggle visibility. Below these fields is a link that says 'Forgot Password?'. At the bottom of the form are two buttons: a blue 'LOGIN' button and a white 'SIGNUP' button with a blue outline.

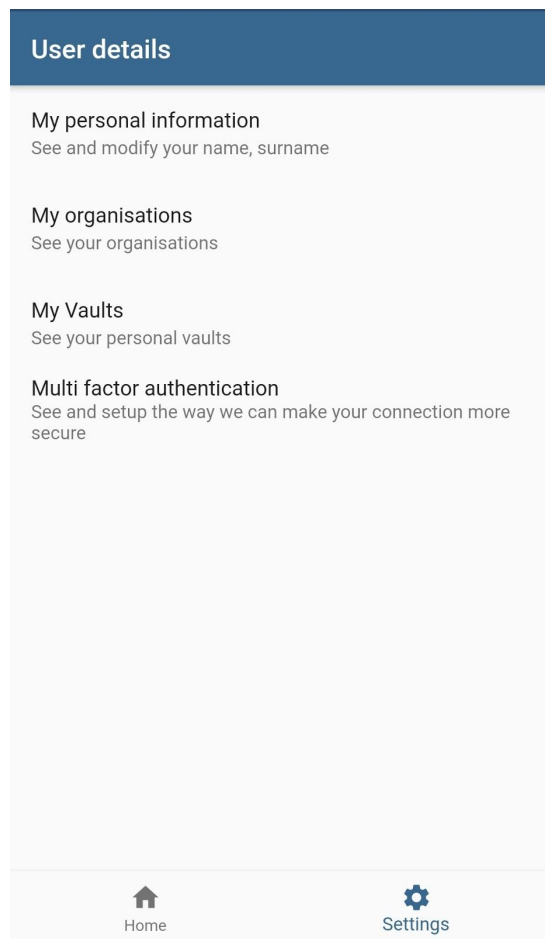
If you already have an account, connection is quite intuitive, you just have to enter your email address and your password to connect yourself. If you don't have an account see the inscription section below

Inscription

On the connection page, click on the Sign up text label and a new field "Confirm Password" will appear. Just enter your email address, your password and then click on the signup button. You will receive an email to confirm your inscription.

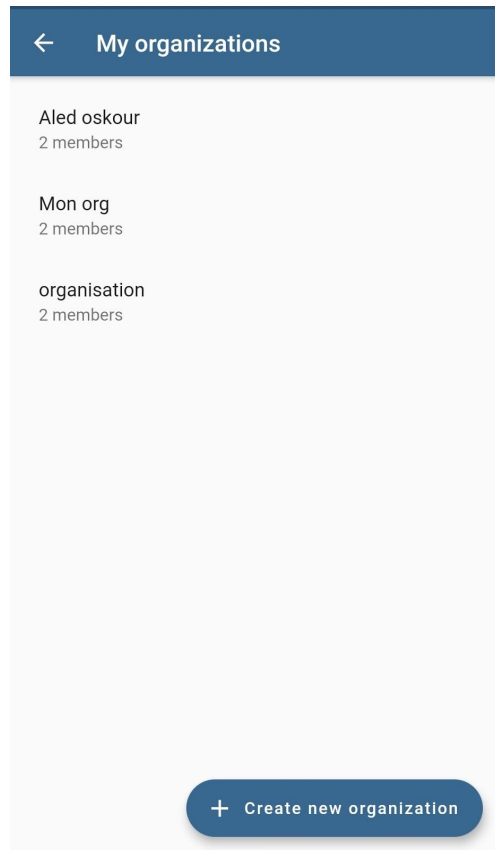
The image shows a signup form for Harpokrat. It is similar to the login form but includes an additional 'Confirm Password' field with a lock icon and an eye icon. The 'LOGIN' button is now a white button with a blue outline, and the 'SIGNUP' button is a solid blue button. The 'Forgot Password?' link remains above the buttons.

Main page



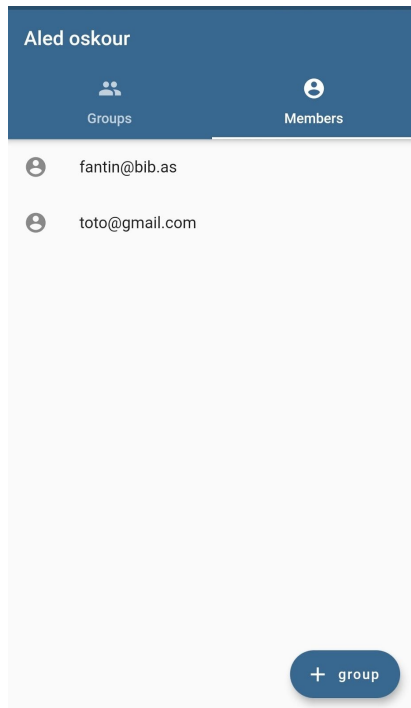
Once logged, you will land on this page which is the main menu of the app. Each tile is quite self explanatory and has a description to help you find what you want. Each of the pages that this menu can lead to will be detailed in this documentation below.

My organizations



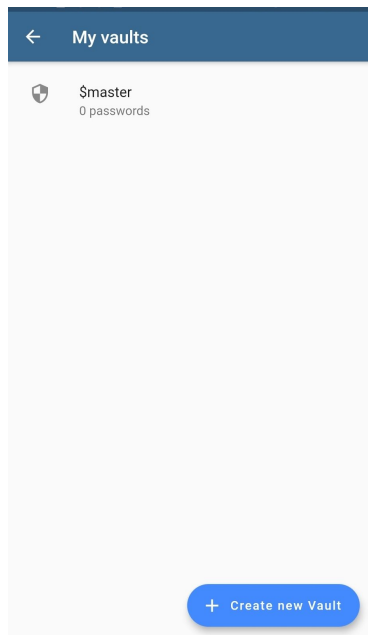
In this page you can see all organizations you have been added to. You can click on each organization to see groups and members.

Organization details



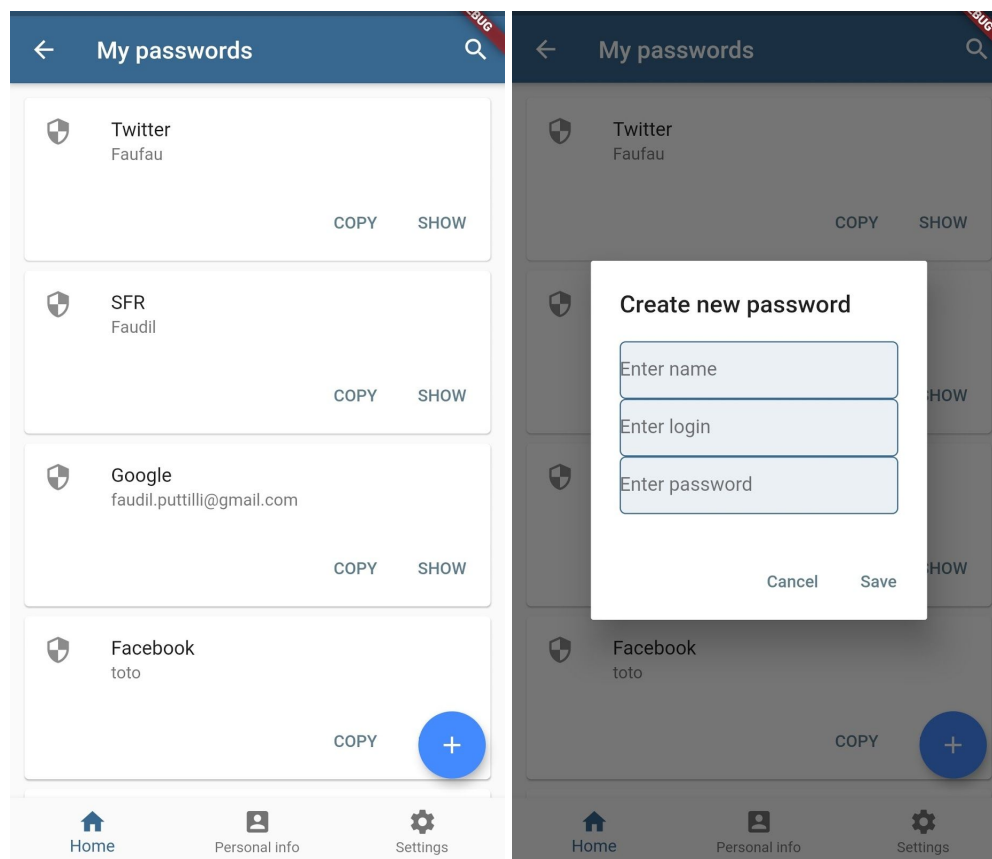
The organization detail is organized in two tabs: Groups where you can see Groups in the organization. The second tab is members where you can see the members of the organization.

Vaults



This page contains a list for all the vaults contained by the owner of the vault which can be a group or a user. Clicking on a tile will show a password list showing all passwords stored in this group. This page will be explained below.

List of passwords



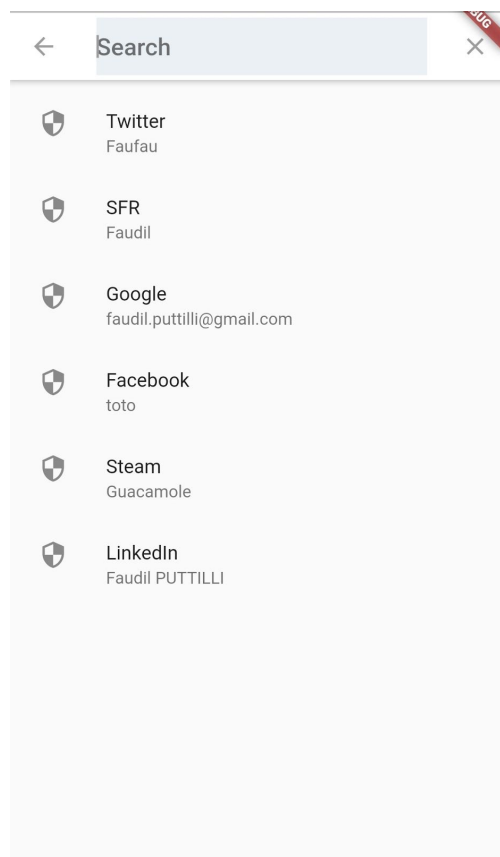
Once connected, the application will automatically redirect you to the list of all your registered passwords.

To refresh this list you just have to pull up (like in android chrome). If you want to create a new password, click on the Plus floating button and a dialog box will appear asking you to enter some basic information like the login and the password.

If you click on the COPY button for each card, the password will be in your clipboard, if you click on SHOW, the password will be shown temporarily.

If you want to see or change the details of your password just click on its card.

Search password



To search for a password in your password list, click on the top right loop when you are on the password list page. A search bar will appear and in it you can type anything (your login, the address of the site etc) and the app will try to autocomplete your research and show the password you are looking for.

Password details

The screenshot shows the 'Password details' screen of the '\$master' application. At the top, there is a dark blue header with a back arrow, the title '\$master', and a search icon. Below the header, a grey card displays the details for a 'Facebook' entry by 'Richard'. It includes a shield icon and two buttons: 'SHOW' and 'COPY'. Below this card, a white form contains four input fields: 'Name' (Facebook), 'Domain' (Facebook), 'Login' (Richard), and 'Password' (masked with dots). The 'Password' field has a lock icon on the left and an eye icon on the right. At the bottom of the form are two buttons: 'Save changes' (blue) and 'Delete password' (red).

Once clicked, a new page appears and you will see your password details and you will be able to change them. Changes are not saved automatically and you need to click on the Save button to save the change, then the password will be encrypted and synchronised with the server.

Personal information

← My informations

First name
Faudil

Last name
Puttilli

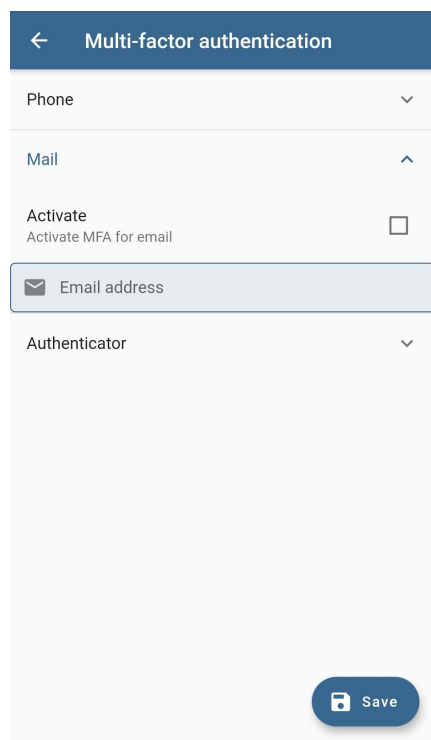
E-mail
faudil.puttilli@epitech.eu

Save

Home Personal info Settings

This page is your personal information page, You can change your name and your last name, more information will arrive, like if you activate the double factor authentication. Changes are not automatically saved and you need to click on the Save button to synchronise your changes with the server.

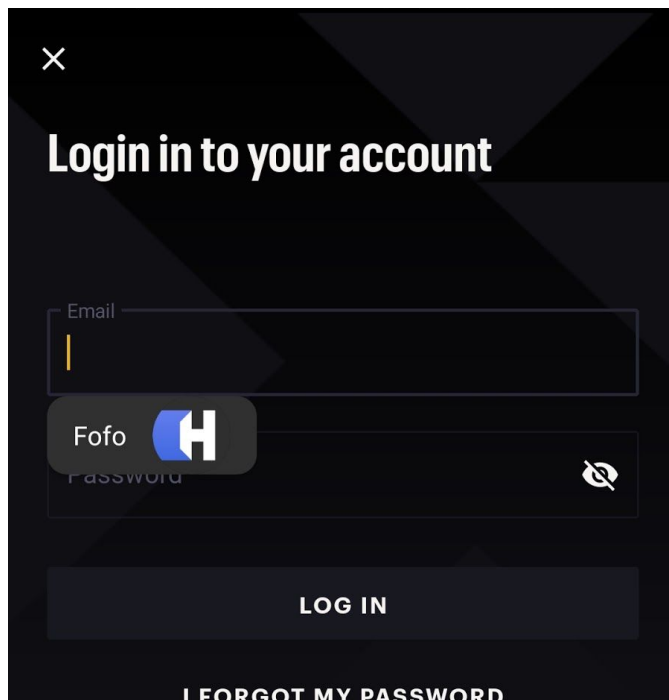
Multi factor authentication



The screenshot shows a mobile application interface for 'Multi-factor authentication'. At the top is a dark blue header with a back arrow and the title 'Multi-factor authentication'. Below the header are three expandable tiles: 'Phone' with a downward arrow, 'Mail' with an upward arrow, and 'Activate' with a checkbox and the text 'Activate MFA for email'. The 'Mail' tile is currently expanded, showing an input field with an envelope icon and the placeholder text 'Email address'. Below the input field is an 'Authenticator' section with a downward arrow. At the bottom of the screen is a dark blue 'Save' button with a white floppy disk icon.

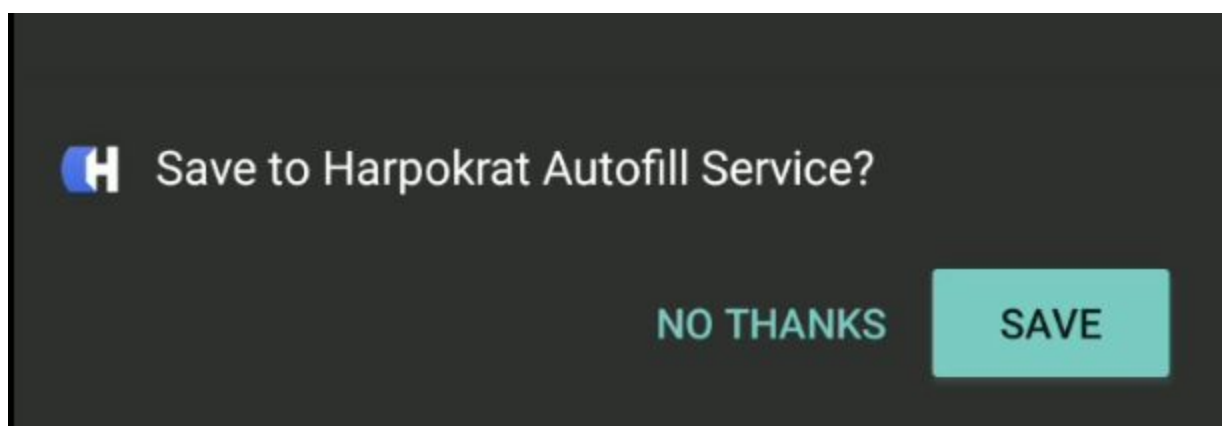
This page is composed of 3 expandables tiles. To add an email number you just have to click on the email expandable tile and enter your email. Then you can click on the checkbox activate and then the button save to save to the server. After that, the next time you will try to login, you will receive an email with a code and the app will ask you to enter it in a popup.

Autocompletion



If you have any password saved in your personal vaults or in a vault owned by a group you're belonging in. Harpokrat autofill service will try to auto-complete fields in your app if the password url corresponds to the application id.

Auto Saving passwords



Once you enter a password in an app that has allowed an autofill service to analyse it, this popup might show up. The password will only be saved if you click on the button SAVE.

Once clicked on saved, you have to go back to your app for the password to synchronize with the server.

Browser extension

The Browser Extension is a client developed to be used with the Mozilla Firefox and Google Chrome desktop web browsers.

It's main value when compared to other clients is its ability to see login forms on the web pages you visit, and either save the credentials to your HPK vault when you first log in to a service, or auto-fill a connection form when the credentials are registered in your HPK vault.

Installation

To install on Mozilla Firefox, visit:

<https://addons.mozilla.org/en-US/firefox/addon/harpokrat-beta/>

and click on "Add to Firefox".

To install on Google Chrome, visit:

<https://chrome.google.com/webstore/detail/harpokrat/lemljpkjifnikpankbbgjcgalpajmfdi>

and click on "Add to Chrome".

After this point, instructions are the same for both web browsers.

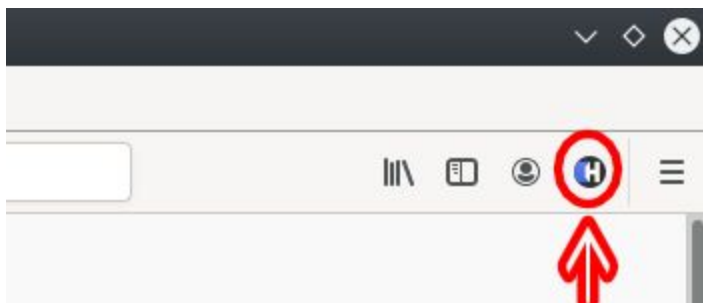
Removal

From the same page where you installed the extension, you can also click "Remove" to uninstall it if you so want to.

Usage

Dashboard

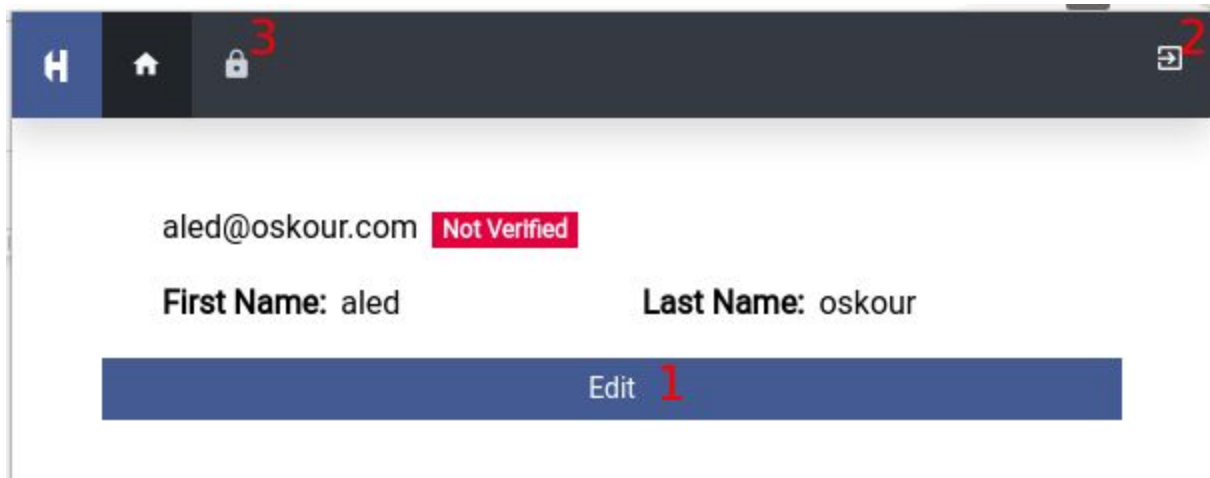
To log into you HPK account, you can open the new icon in the top right corner of your browser:



This will open the extension's landing page. From here, you can "Register" if you do not yet have an account, or "Log In" to access your vault.

From the "Log In" page, you can if needed use the "Forgot password" button to get an email, that will let you reset your password.

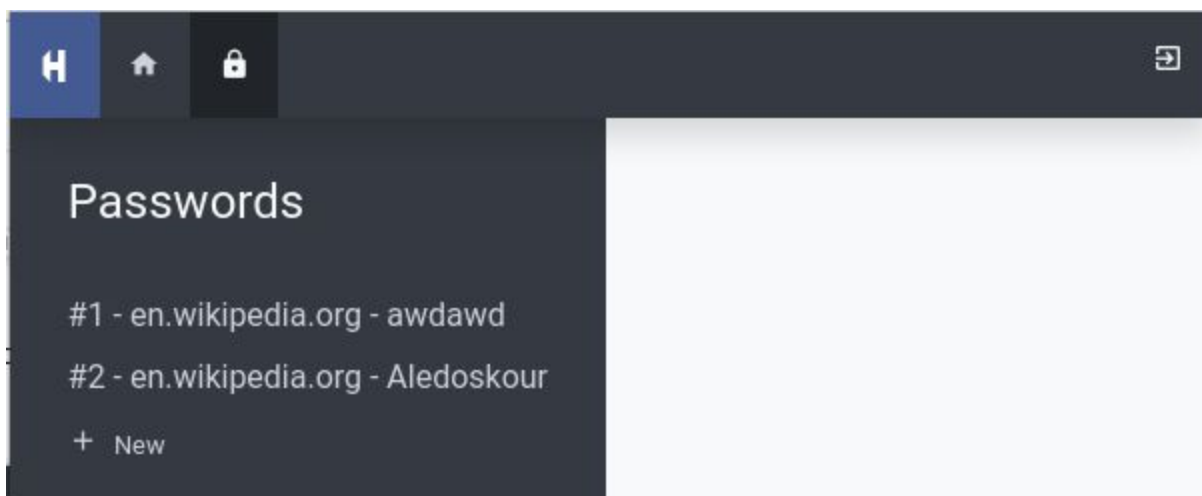
Once you have filled your HPK credentials, press the "Sign In" button to be redirected to your Dashboard.



Using the "Edit" button (number 1) will allow you to edit your account's information (first and last name, email address, password).

Using the button number 2 will log you out of your account, and send you back to the "Log In" page

Finally, using button number 3 will show your vault, and the credentials you have saved.



In this example, we have 2 accounts registered on en.wikipedia.org

You can manually add a new account by clicking on “+ New”, and by filling the given form.

If you click on an already recorded account you will get a more detailed view of what it contains :

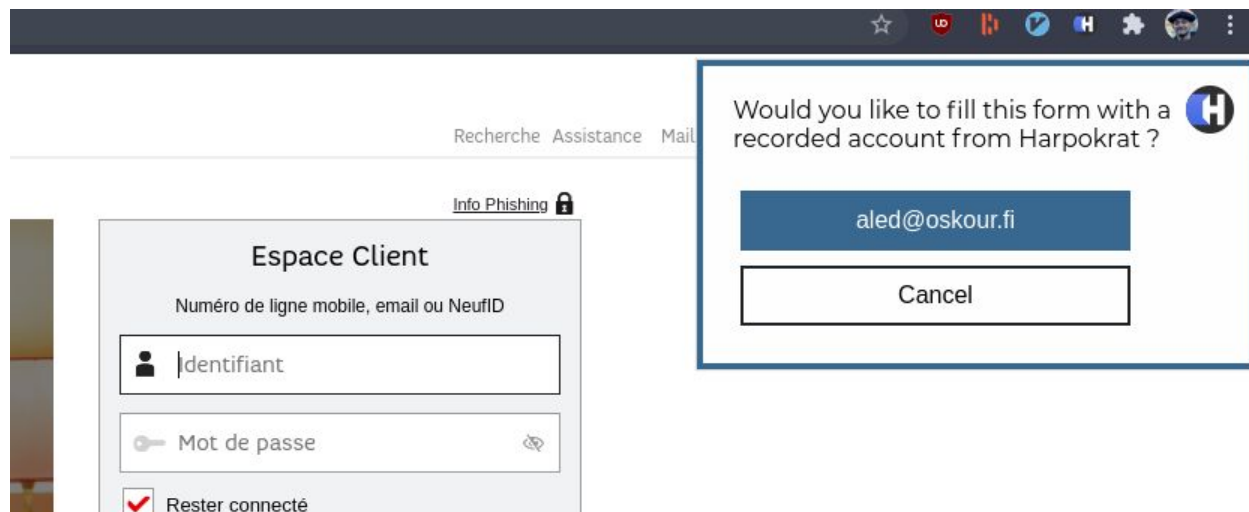
The screenshot displays the HPK vault interface. On the left, a dark sidebar titled "Passwords" lists two entries: "#1 - en.wikipedia.org - awdawd" and "#2 - en.wikipedia.org - Aledoskour". Below the list is a "+ New" button. The main area shows the details for the selected entry, "en.wikipedia.org - Aledoskour". It includes a "Login" field with the text "Aledoskour" and a "Password" field with masked characters. Both input fields have a blue icon with a document symbol circled in red, indicating a copy-to-clipboard function. Below the fields are "Edit" and "Delete" buttons, with a mouse cursor hovering over the "Delete" button. At the bottom is a "Complete" button.

From here, you can manually “Edit” or “Delete” those credentials.

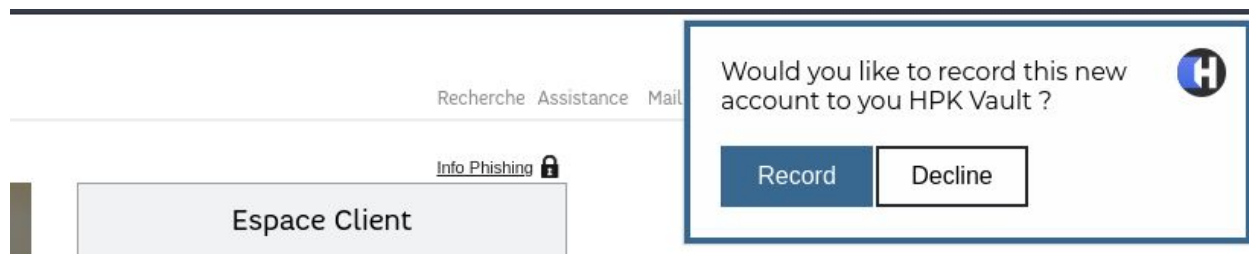
Clicking the button circled in red will copy respectively the Login and the Password to your clipboard.

Auto-completion & Auto-save

If you are currently browsing the login page for a website, and credentials for this website are saved into your HPK vault, the extension will ask you if you want to auto-complete this login form through a popup in the upper right corner of your screen:



To “auto-record” a new set of credentials, simply log in to the web page as you would normally. After being successfully logged in, you will see a pop-up asking if you want to save those credentials to your HPK vault. Simply press “Yes”, and this will be done. You can now see this new account in your dashboard as previously explained.



If you log into an already known account, but with a different password than recorded, then you will see a popup asking if you want to change the recorded password in you HPK vault.

Command Line Interface

The command line interface of Harpokrat allows you to manage your HPK passwords directly in your terminal.

Prerequisites

You will need to have the HCL library installed on your computer.

Installation

Currently the CLI is in closed beta so you need to download it from the Harpokrat repository if you have the appropriate rights to do it.

You will need Python 3 to use the CLI and the PIP3 tool to install the dependencies. The requirements.txt file contains all the necessary packages to the proper functioning of cli.

```
pip3 install -r requirements.txt
```

Usage

```
./cli.py [args] username
```

The cli provides a `--help` argument in order to explore every usage.

However, you will find below a useful argument in order to use the CLI.

- `--shell` activates the shell mode (you can prompt multiple commands)
- `--list` or `-l` allows you to list all your passwords
- `--add` or `-a` allows you to add a new password
- `--delete` or `-d` allows you to delete a password
- `--modify` or `-m` allows you to modify any field of a password
- `--info` or `-i` give information about your account

Frequently Asked Questions

How to create an Harpokrat account ?

You can create an Harpokrat account using either the web client accessible at <https://www.harpokrat.com/> or by using the mobile client. The other clients don't yet allow for the creation of an account.

Why use a password manager? What is the added value for my company?

Recovering from a cyber attack costs an average of 300,000 euros to a medium or small company. For a large company this cost rises to an average of 1.3 million euros. Since a company's IT security relies mainly on managing access to its services, passwords are generally the weakest link in a company's security.

The goal of our solution is to automate the connection of your employees to the different services used by your company. In this way they do not have to remember long and complex passwords without compromising the security of their account by simplifying them.

Moreover, automating the connection will allow your employees to use all your services instantly without having to remember a password or go through a tedious access reset procedure.

How do we ensure the security of your passwords?

We encrypt each piece of data with your primary password before it is sent to our servers. For this we use AES 256 encryption, the most secure encryption algorithm currently available.

Why should you trust us?

You do not need to trust us to use our solution. In fact, the entire architecture of Harpokrat is designed to be secure and for this reason we make sure that your confidential data never leaves your device. All the data we store on our servers is encrypted with AES 256, the most secure encryption algorithm available today. Even if our company was malicious we would be unable to access your data.

How do you install Harpokrat in your company?

To install Harpokrat you just need to create a company account on our website and then add your employees' email addresses on the administration console. They will then receive an email that will allow them to create a user account or link an existing account to your company.

You and your employees will then be able to add passwords and access to different services to your account and Harpokrat will take care of the rest.

What platforms does Harpokrat support?

Our solution is compatible with most existing systems: MacOS, Windows, Android, IOS, etc... But also directly with the most popular web browsers. You can find the complete list of compatible platforms on the download page.

What would happen if our servers were attacked?

In spite of the numerous security mechanisms and systems implemented on our infrastructure, our solution is developed in such a way as to consider directly in its operation that our servers could be attacked and this is why no sensitive information is stored on our servers. Your master password never leaves your device and the data stored on our servers is encrypted by an ultra-secure algorithm even before it leaves your computer.

The algorithm used is AES 256, the most secure encryption algorithm available. To give you an idea of how difficult it is for a hacker to attack such encryption you can consult the AES 256 explanation page.

Is it possible to share certain passwords between collaborators?

Yes, and this in a totally secure way thanks to the use of asymmetric encryption. To understand asymmetric encryption you can consult the page explaining asymmetric encryption.

How are the passwords of an employee who has left the company handled?

Harpokrat offers the possibility to instantly and automatically revoke all employee access to company services. In addition, all accesses and passwords shared with an employee are automatically reset when they are no longer shared with him. You will never be so serene after an employee leaves.

Is it possible to spot suspicious actions by a user?

The admin console will inform you in the event that an abnormal use of Harpokrat by one of your employees is detected. It will inform you in the same way in the case of a security breach concerning one of your company's accesses. In addition, you can view reports on the use of your company's services by your employees.

Is it possible to contribute or to propose ideas to improve the project ?

Yes sure ! You can freely contribute to the project and if you have any idea you want to share with us, do not hesitate to contact us 🚀

Other problems

You can access additional information and documentation on the Harpokrat website at <https://www.harpokrat.com>. If you have any additional problem please feel free to contact us at contact@haprokrat.com