Auto-fill data

Auto-fill your Entreprise Vault data into web pages and mobile apps.

- Auto-fill Overview
- Disable Browser Password Manager & Export Saved Passwords
- Browser Extension Options
- Auto-fill Logins
- Auto-fill for Cards and Identities
- Auto-fill for Custom Fields
- Using URIs in Auto-fills
- Auto-fill for iOS
- Auto-fill for Android

Auto-fill Overview

Once **Installed**, the WALLIX **Browser extension** facilitates Auto-fill to webpage pages and mobile apps. The Browser Extension is currently **available** for **Chrome** and **Firefox**.

Browser Password Managers are generally considered less secure than dedicated solutions like WALLIX Enterprise Vault. **Before using** the **Browser Extension** it is advisable to **Disable Browser Password Manager & Export Saved Passwords.**

Items can be added to the Vault from a webpage using the Browser Extension on Desktop or mobile devices.

Logins, Card and Identities, and **Custom Fields** can be auto-filled to a Webpage using the Browser Extension from a Desktop computer. There are various options for **Using URIs in Auto-fills.**

A number of options are available for **auto-filling webpages and mobile apps** on **Android Devices** and **iOS Devices.**

Other options are available in the Browser Extension such as **Badge Counter**, **TOTP Copy after Auto-fill** or **Auto-fill for iframes**.

# Disable Browser Password Manager & Export Saved Passwords

Chrome Browser

Type chrome://password-manager/passwords into the address bar.
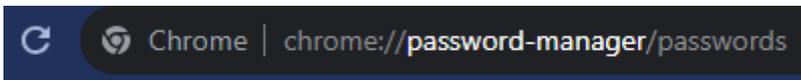
Click **Enter**. The **Passwords Screen** opens.

Click the Settings Link in the Password Manager menu. The Settings Screen opens.
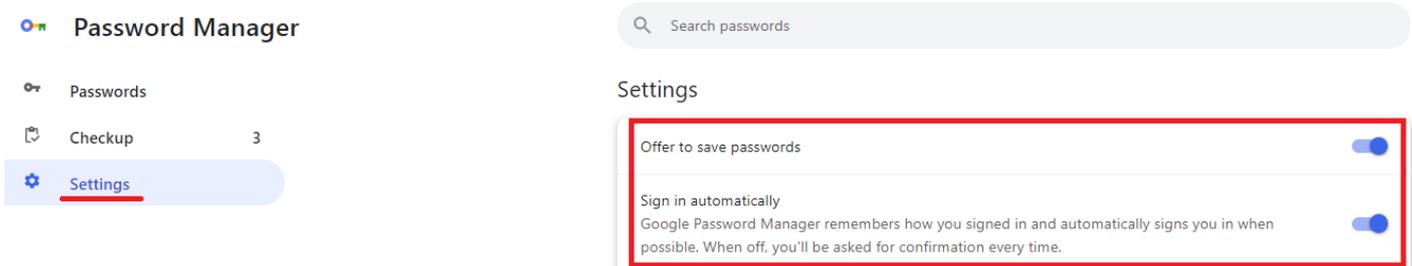
Disable Password Manager

Toggle off the following **options**:

- Offer to save passwords
- Sign in automatically

The Browser **no longer** offers to **save password** or **sign in automatically** to websites.

Export Saved Passwords

Click **Download file** beside the **Export passwords option**.

The Passwords are exported in **CSV format**.

Firefox Browser

Type about:preferences#privacy into the address bar.

Click **Enter**. The **Passwords Screen** opens.
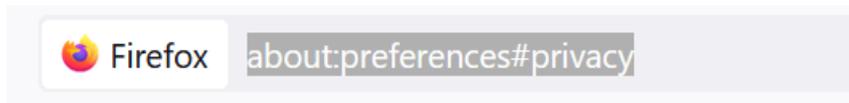
Disable Password Manager

Toggle off the following **options**:

- Ask to save logins and passwords for websites
- Autofill logins and passwords

The Browser **no longer** offers to **save password** or **sign in automatically** to websites.

Export Saved Passwords

Click the **Saved Logins button** beside the Logins and Passwords options.

The Saved Passwords List is displayed.

Click the **three dots** link beside the Account name. The Context Menu is displayed.

Click the **Export Logins** Link.
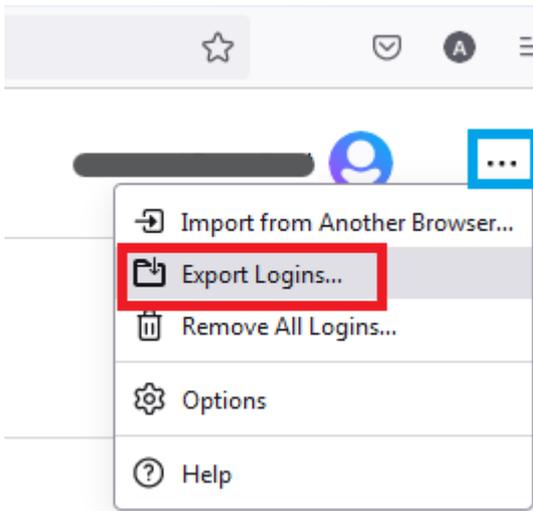
The Passwords are exported in **CSV format**.

Browser Extension Options

Badge Counter

The **Tab Screen** of the Browser Extension **automatically detects** the **URI** of the **currently displayed page**.

It finds any **Vault Items** that have the **same URI**.

It displays the **number of items found** for that page on the **Badge Counter icon**.
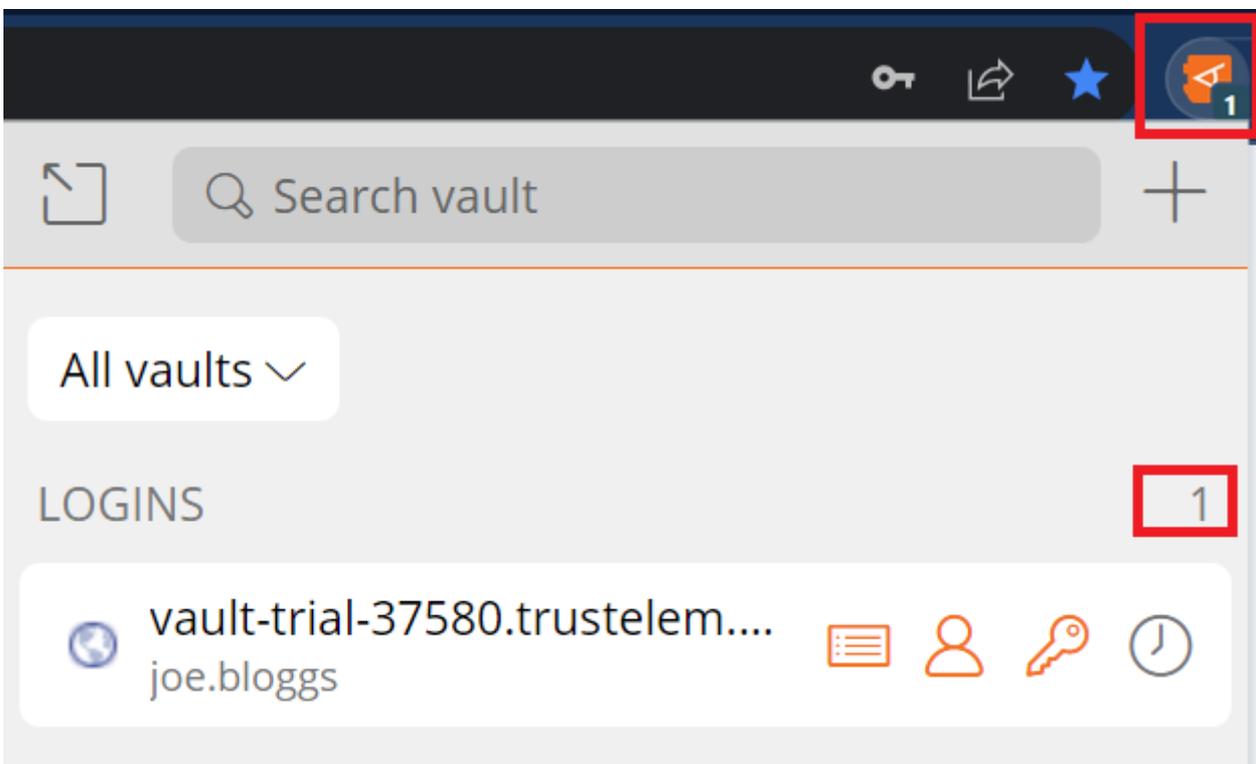
It is **turned on** by **default**.

It can be turned off by unchecking the **Show Badge Counter checkbox** in **Settings** > **Options**.

TOTP Copy after Auto-fill

If the Login uses **WALLIX Authenticator** for TOTPs, the shortcut also **copies** the **TOTP** to the clipboard after auto-filling the web page with any of the above methods.

Auto-fill for iframes

Auto-fill does **not work** for untrusted iframes.

An untrusted iframe is **defined** as one where the **src** value is **not** the **same** as the **URI** for the **Login** item, as required in the rules set for **Match Detection Behavior**.

When the browser extension detects an iframe it responds based on the type of auto-fill being used:

- **Auto-fill on Page Load:** the browser extension disables the auto-fill on page load and does not warn the user
- **Auto-fill using Context menu, Keyboard Shortcut or from Browser Extension:** the browser extension warns the user about the iframe.

Auto-fill Logins

> **Prerequisite:** The Browser Extension needs to be **installed** before the Auto-fill feature becomes available.

## Auto-fill from Context Menu

Right click on the Login Screen of a website. The Context Menu is displayed.

Choose **WALLIX Vault > Auto-fill.**

If the Login is stored in the Vault, an Auto-fill option is proposed.

Click **Auto-fill** to **retrieve** the **Login** for this website to WALLIX Enterprise Vault.

> If you are not signed in to WALLIX Enterprise Vault, you will be prompted to **sign in** before retrieving the Login.
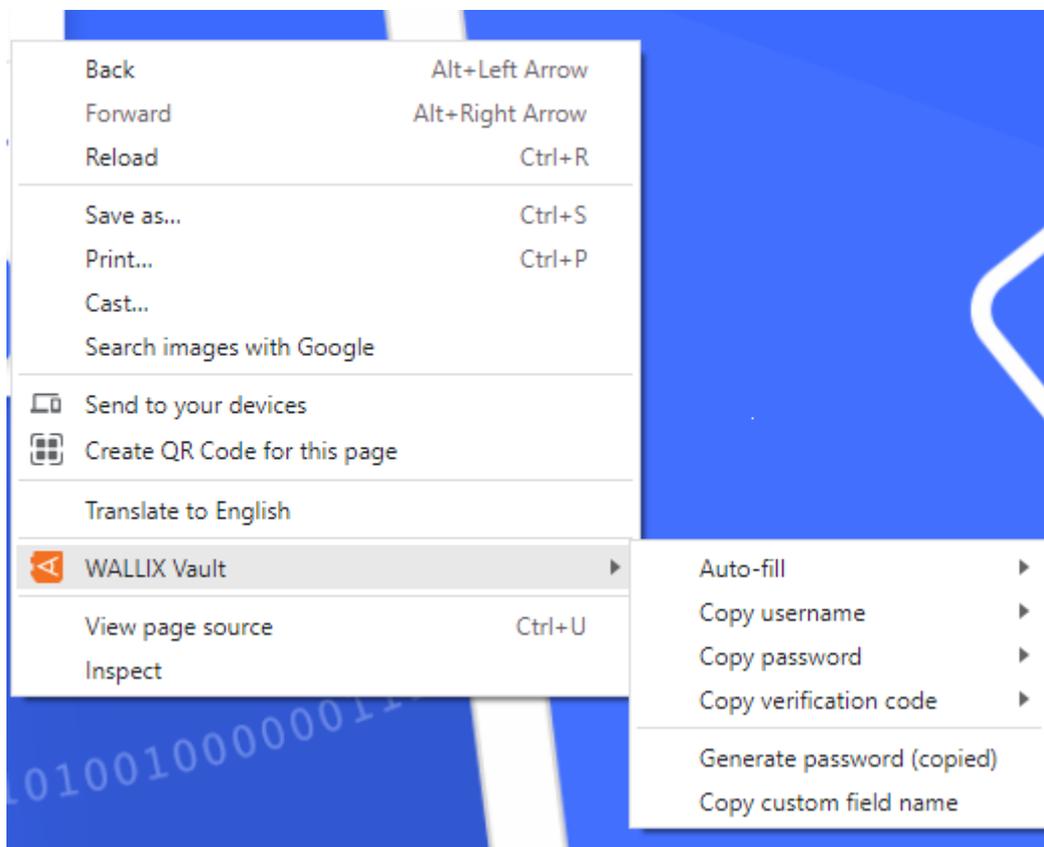
The context menu also contains other options for this Login:

- **Copy username**: copies the username of the login to the clipboard.
- **Copy password**: copies the password of the login to the clipboard.
- **Copy verification code**: copies the verification code of the login to the clipboard.
- **Generate password**: generates a new more secure password from the copied password.
- **Copy custom field name**: copies the name of the custom field of the login.

Auto-fill on Page Load

Auto-fill on Page load is a function that **automatically populates a Login** on a Page when the URI of the page being displayed corresponds to an Item in the Vault.

This is pertinent for **Logins, Cards or Identities**.

> **Untrusted iframes**: Auto-fill on page load does **not work** for untrusted iframes.

> **HTTPS/HTTP:** If the Vault Item **expects** an **HTTPS** site and a **HTTP** version of the site is **displayed**, the user is **warned before** auto-filling on page load.

Enable Auto-fill on page load

> For **security reasons**, it is **automatically disabled** and needs to be enabled to work.

To **enable** Auto-fill on Page Load, from the Browser extension, navigate to **Settings**> **Autofill**. The Auto-fill screen opens.

Click the **Auto-fill on page load checkbox**. This **enables** the option to auto-fill logins on page load.

Auto-fill on page load ☐

If a login form is detected, auto-fill when the web page loads.
WARNING: Compromised or untrusted websites can exploit auto-fill on page load. Learn more about auto-fill. ⬈

Default autofill setting for login items

Auto-fill on page load ⌄

You can turn off auto-fill on page load for individual login items from the item's Edit view.

Default URI match detection

Base domain ⌄

Choose the default way that URI match detection is handled for logins when performing actions such as auto-fill.

Auto-fill keyboard shortcut ⬈

The auto-fill shortcut is: Ctrl+Shift+L. Change this in the browser's settings.

From the **Default autofill setting for Login items dropdown**, choose the default option:
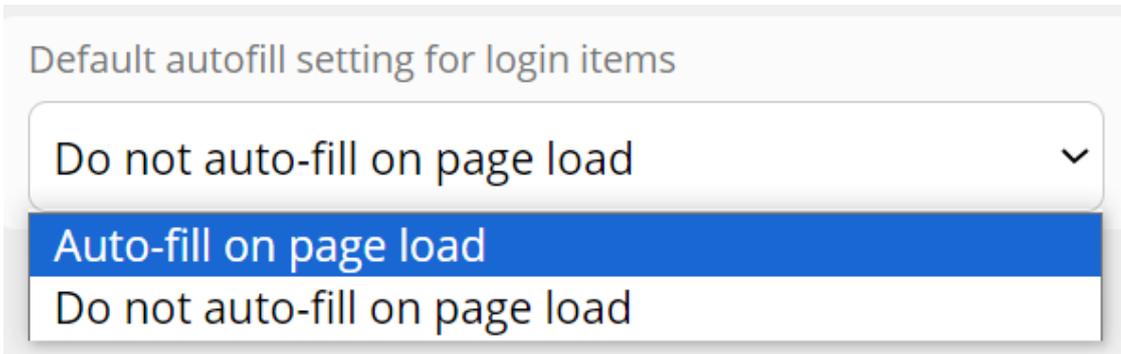
This can be **overwritten** for each item from the **Items Screen.** This allows **specific auto-fill** options to be set for **specific items.**

From the **Default URI match detection dropdown**, choose how to match the URL of the webpage with the Login already in the Vault.
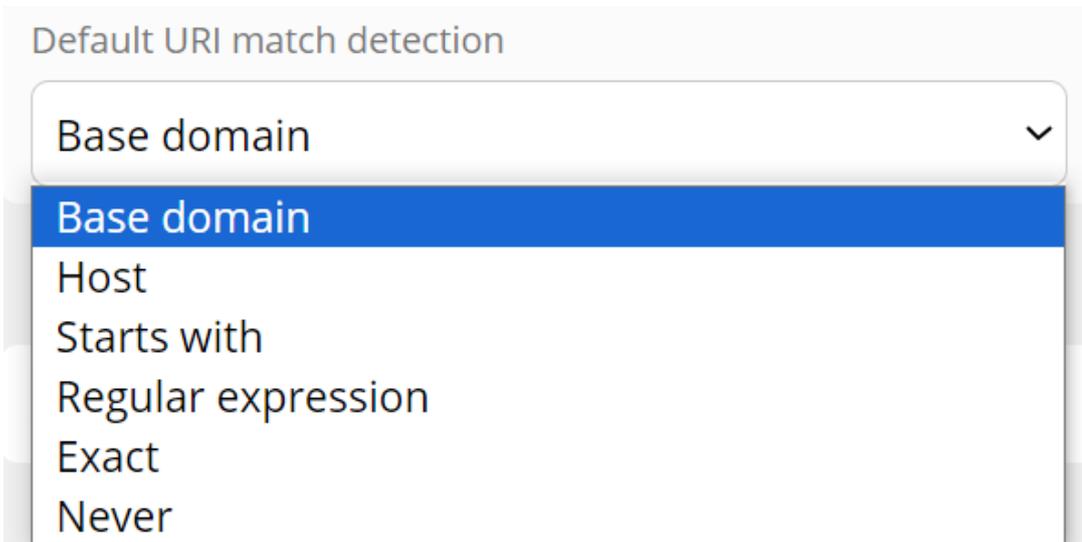

Auto-fill Item to Vault on Page Load

If this **login** is **not** already **saved** in WALLIX Enterprise Vault, a **prompt** displays which **offers to save** the Login details for this Website.
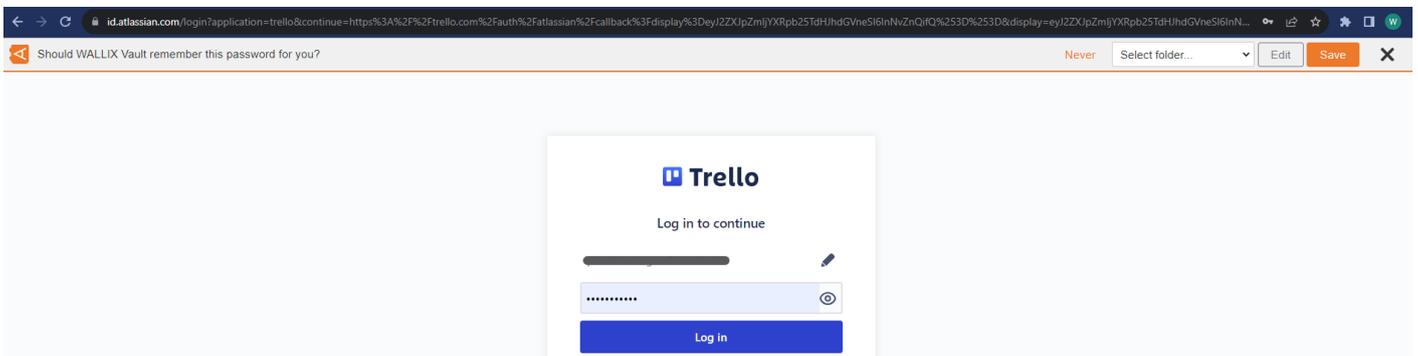
Choose a **Folder** to add the Login to this Folder in the Vault. This field is **optional**.
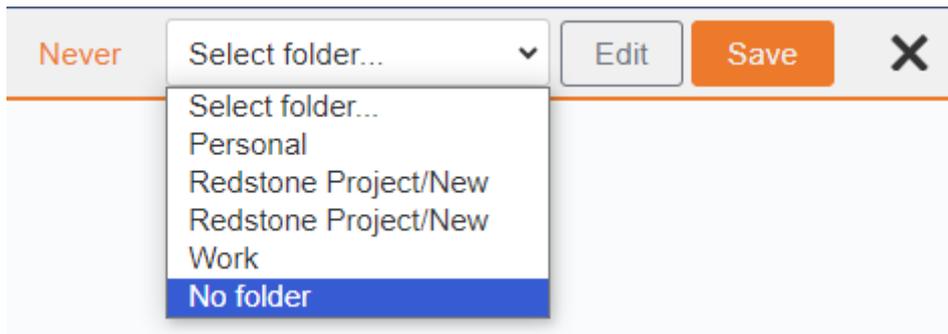
Items are **added** to the **User's Individual Vault** and not a Shared Vault.

Click the **Save button.**

The **Add Item Screen** displays with the **fields pre populated** with the Login details.

Modify fields, if required.

Cancel   **Add item**   Save

ITEM INFORMATION

Type

Login ⌄

Name

id.atlassian.com

Username

⟳

Password

•••••••••••   ✓   👁   ⟳

Authenticator key (TOTP)

⊖ URI 1

https://id.atlassian.com/login?application=trello&contir   ☰   ⚙

⊕ New URI

Auto-fill on page load (if set up in Options)

Use default setting ⌄

Folder

No folder ⌄

Favorite   ☐

Master password re-prompt   ☐

Click **Save** to Save Item to Vault.

Alternatively, click **Cancel** to cancel the operation.

Auto-fill Manually

You can **manually add** a **Login** that is **not** already in the **Vault**.

From the **Vault Screen** of the **Browser Extension**, click **Add a login.**
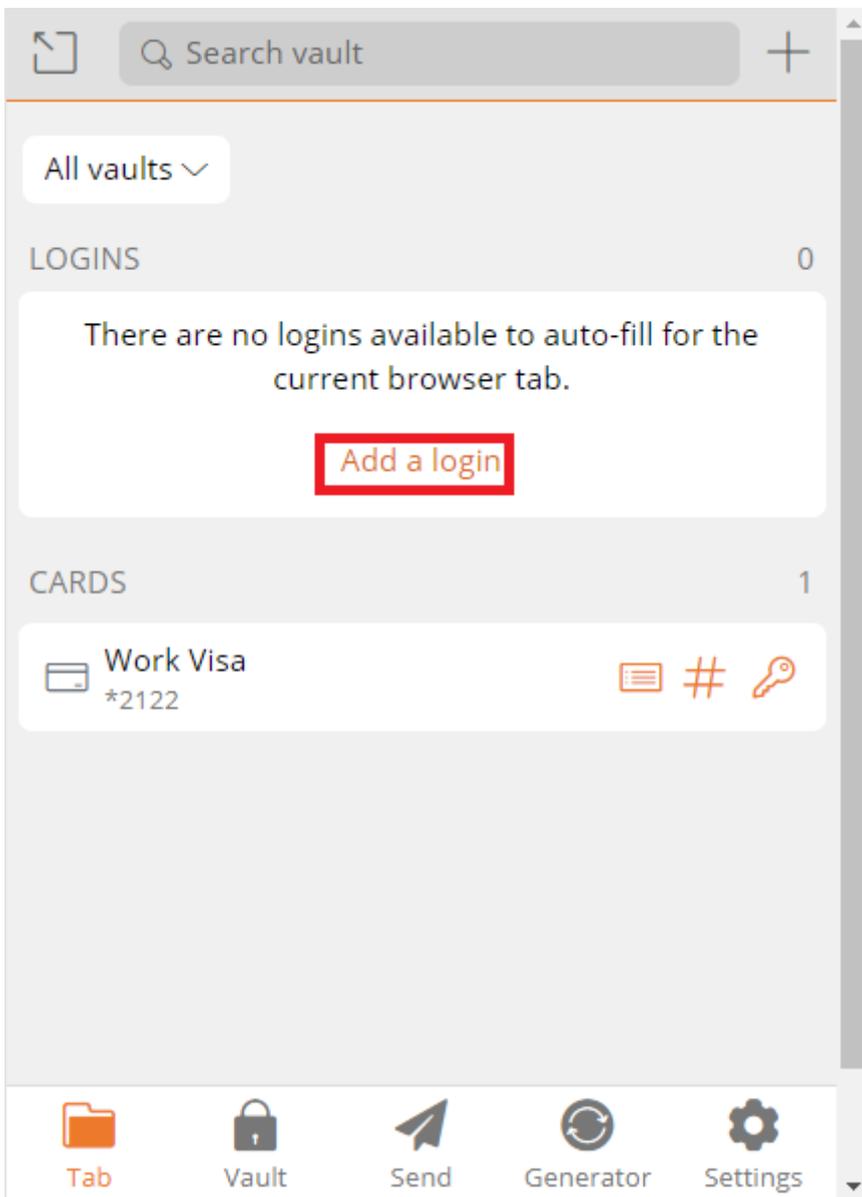
The **Add Item Screen** opens.

The **elements** that the Browser Extension could **recuperate** from the **browser** are **prepopulated**.

Enter the **remaining fields**. Click **Save** to create Login.

Alternatively, click **Cancel** to cancel the operation.

Auto-fill using Keyboard Shortcuts

Use the following **default keyboard shortcuts** (also known as **hot keys**) to auto-fill a login.

- Use Ctrl + Shift + L if running Windows of Linux
- Use Cmd + Shift + L if running for macOS

> If **multiple logins** are found for the URI, the **last-used login** is used for auto-fill.

> Keyboard shortcuts can be useful to **populating multiple logins** in **rapid succession**.

> **Configure shortcuts:**If the keyboard shortcut doesn't work, it may be because **another app** is already **using it**. Either remove the shortcut from the other app or configure WALLIX to use a different shortcut.

TOTP Copy

If the Login uses **WALLIX Authenticator** for TOTPs, the shortcut also **copies** the **TOTP** to the clipboard after auto-filling the web page with any of the above methods.

Auto-fill for iframes

Auto-fill does **not work** for untrusted iframes.

An untrusted iframe is **defined** as one where the **src** value is **not** the **same** as the **URI** for the **Login** item, as required in the rules set for **Match Detection Behavior**.

When the browser extension detects an iframe it responds based on the type of auto-fill being used:

- **Auto-fill on Page Load:** the browser extension disables the auto-fill on page load and does not warn the user
- **Auto-fill using Context menu, Keyboard Shortcut or from Browser Extension:** the browser extension warns the user about the iframe.

Auto-fill for Cards and Identities

Add to Vault

As for **Manually Adding Logins to the Vault**, **Cards** and **Identities** can be **auto-filled directly to the Vault** from the browser extension.

Click the **Add Item button** in the **Tab** Screen of the Browser extension.
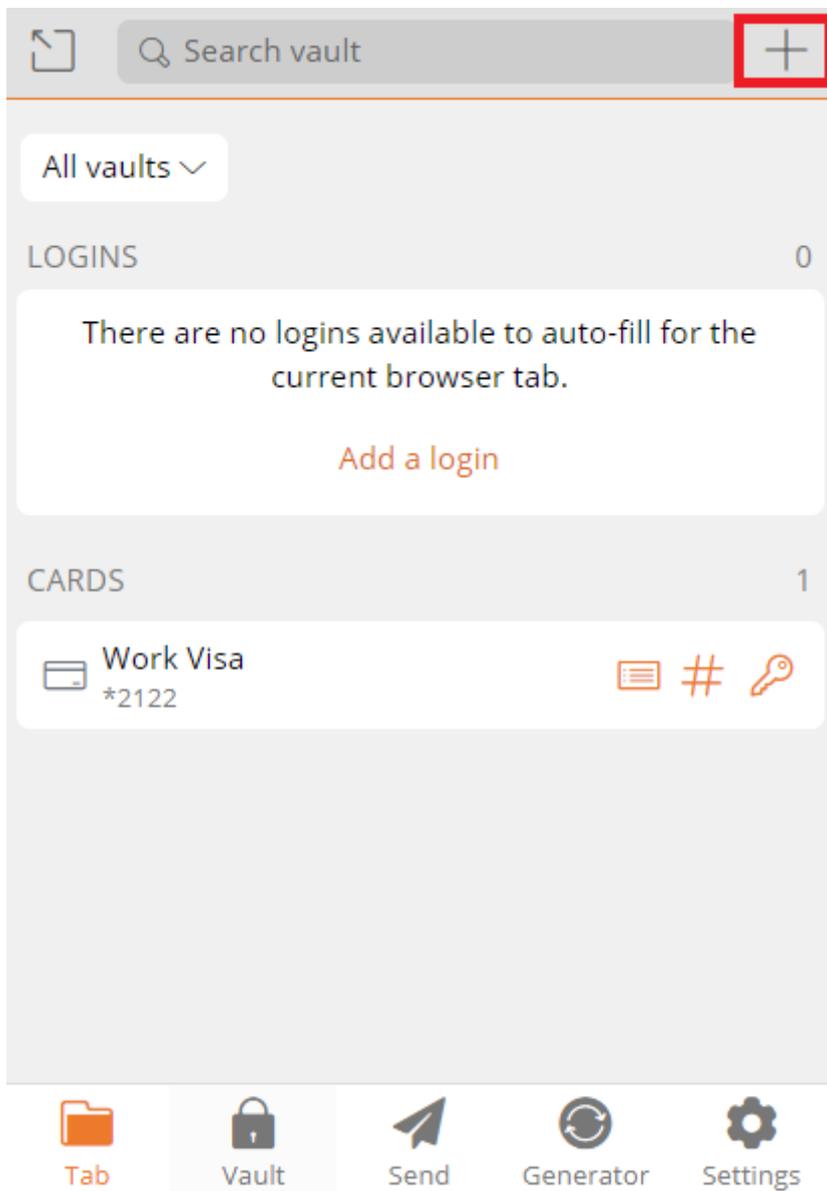
The Add Item Screen is displayed.

Choose **Type** (**Card or Identity**).

Add rest of item details.

click **Save** to add item to Vault.

Cancel	**Add item**	Save

ITEM INFORMATION

Type

Card ⌄

Name

www.amazon.fr

Cardholder name

Number   👁

Brand

-- Select -- ⌄

Expiration month

-- Select -- ⌄

Expiration year

ex. 2023

Security code

Alternatively, click **Cancel** to cancel the operation.

Auto-fill Manually

From an ecommerce website, navigate to the **add new card page.**

Open the **Browser Extension**.

The **Cards** saved in the Vault are **displayed**.
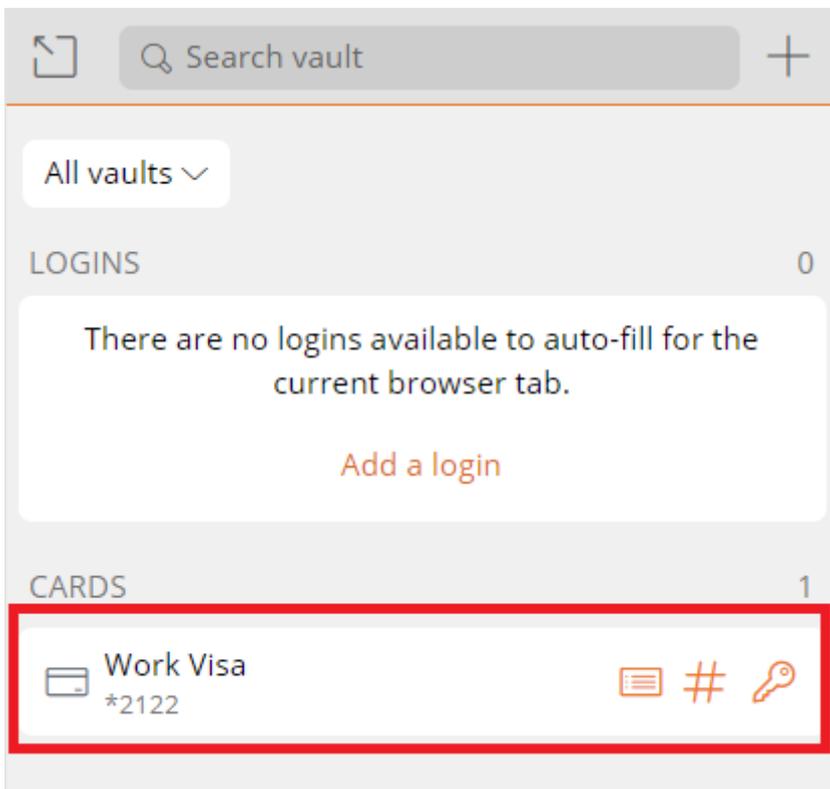
Click a **Card**. It will **automatically populate the webpage**.

The **procedure** is the **same** for populating an **identity** on a webpage.

Auto-fill using Context Menu

Cards and identities can be auto-filled to the Vault from the Context menu on the webpage.

This works the same as for **Logins**.

Hide Cards and Identities Option

Cards and Identities are displayed by default in the Tab Screen of the Browser Extension.

Uncheck the following options in **Settings > Options > Display** in the Browser Extension to **hide** these from **view**:

- **Show cards on Tab Page** checkbox
- **Show identities on Tab page** checkbox

DISPLAY

Show cards on Tab page ☑

List card items on the Tab page for easy auto-fill.

Show identities on Tab page ☑

List identity items on the Tab page for easy auto-fill.

Auto-fill for Custom Fields

The **Browser Extension** can be used to **auto-fill a web page** with custom fields that have been added to Items. A typical application of this is for **PINs** and **Security Questions** that are often required in addition to a **Username** and **Password** to login to a website.

Auto-field Custom fields can be created for the **<form>** or **<input> elements**. A special scenario is possible for **<span>** elements**.**

Auto-Fill Custom Fields

Open the **Browser Extension** on the **Webpage** that you wish to auto-fill.

The **Tab** Screen displays.

It **automatically detects** the **URI** of the webpage and **displays** any **logins stored** in the **Vault** that correspond with this URI.

Select the **Vault Item** that contains the **custom field** to be auto-filled to the webpage.

The Browser Extension finds any fields that **match** the **Custom field Name** and **auto-fill** that field's **value**.

> For this reason it is **important** to **correctly name custom fields**.

Linked Custom Fields

Sometimes the Browser Extension is **unable to auto-fill usernames and passwords** for a webpage. In these cases, **Custom fields** can be created for the username and password and these can be used **instead** for auto-fill.

From the **Edit Item Screen**, add a New **Custom Field** of type **Linked.**

In the **Name** field, give it the same name as the **HTML form element** (id, name, aria-label, or placeholder) for the field in question.

This can be found by clicking the **Copy custom field name link** in the Context Menu of the field in question.

For **example**, to find the HTML form element for the Master Password in WALLIX Enterprise Vault, click the Copy custom field name link.

The HTML form element for the Master Password is **saved** to the **clipboard**.
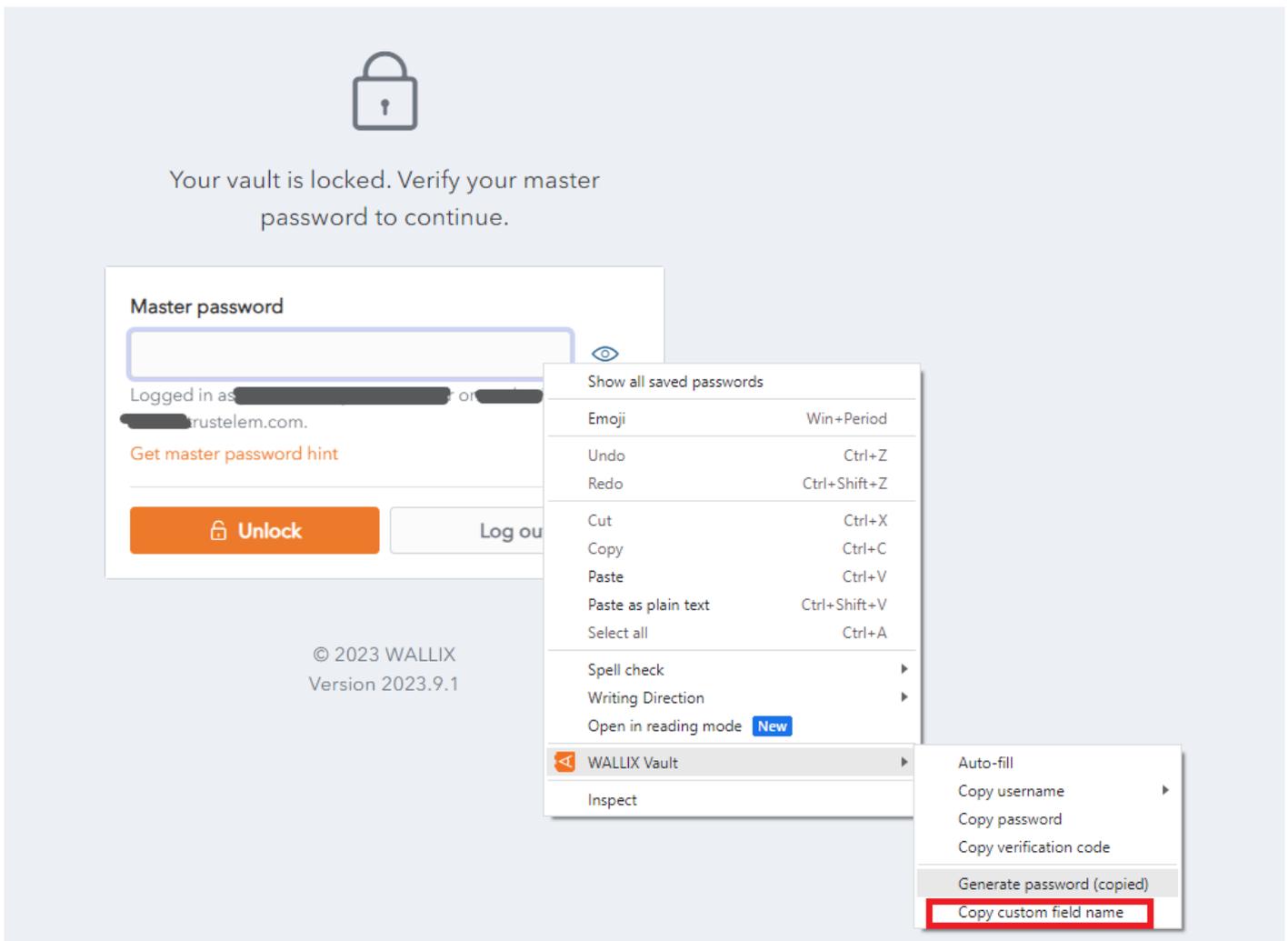
Paste the HTML Form element into the **name** field of the **custom field** that you are creating for Master Password.
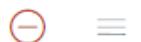
From the **Value** dropdown, select **Password** in the case of a **Custom field for password** (as in the example above) or **Username** in the case of a **Custom field for username**.

This procedure is valid for Auto-field Custom fields can be created for the **<form>** and **<input>** elements.

Auto-Fill for Span Tags

A **custom field** can be created for the **id** attribute of **** elements if the **data-bwautofill** attribute is **present** in the opening tag.

In the following **example**, you could create a Custom Field with the **name** of **title**. An **auto-fill** would **replace** the **contents** of **title** (currently "WALLIX Enterprise Vault" with the **contents** of the **custom field**.

WALLIX Enterprise Vault

Using URIs in Auto-fills

A **Login Item** can have **one or more URIs**. These are added from the **Create Item** or **Edit Item** Screen.

A **URI** is **defined** as a :

- Website address (URL)
- Server IP address
- Mobile App Package ID
- etc.

> A **URI** is **mandatory** for a Login Item in order to **auto-fill** it into a web page.

URI Components

A **URI** is made up for a number of **components**.

https://www.google.com:8080/calendar/item?id=123&type=task

- **Scheme** https://
- **Hostname** www.google.com
  - **Subdomain** www
  - **SLD (second level domain)** google
  - **TLD (top level domain)** com
- **Port** 8080
- **Path** calendar/item
- **Query String** ?id=123&type=task

URI Scheme

A URI Scheme **should be specified** as part of the **URI**. If it is not specified **http://** is used by **default**.

However, if a Scheme is **not specified** by the user, the [⬀] **Launch button,** to launch the website or app directly from the Vault, will **not work**.

URI 1		Match detection	
https://id.atlassian.com/login?application=trello& [⬀] [⧉]		Default match detection ⌄	⊖

⊕ New URI

Examples of schemes are

- https:// or http:// are schemes that reference web pages, e.g. https://www.google.com
- androidapp::// is a scheme that references an Android app pacakge ID or name, e.g. androidapp://com.google.android

Mobile App URIs

Every mobile app has it's **own URI**. In order to save the login of an app into the Vault, it is necessary to **save the URI** of the app.

Locate App URI for iOS

From the App Login Screen on your iOS device, **open the Browser Extension.**

Click the **+ button** to create a new Item in the Browser Extension.

The **New Item Screen** displays and it is **prepopulated** with the **URI** of the **App**.

> This **only works if** the **App permits** recuperating the URI.

The Item can be **saved** as a **Login Item** for this Mobile App.

Alternatively, the **URI** can be **copied** and **pasted** into another Login Item.

Locate App URI for Android

From the **App page** in the **Google Play Store**, locate the **Share** button.

Copy the **Share Button link** to the clipboard.

Paste the link to an email or another file where it can be displayed.

The **link** will look something like this:

https://play.google.com/store/apps/details?id=com.twitter.android

The **URI** is the **id value**, in this example, com.twitter.android

URI Match Detection

Each URI associated with an Item in WALLIX Enterprise Vault has a number Match detection options in the that **Match detection dropdown** can be chosen.

The Match detection option chosen tells WALLIX **how to match the URI** of the **Vault Item** with the **URI** of the **web page or mobile app** for **auto-filling**.
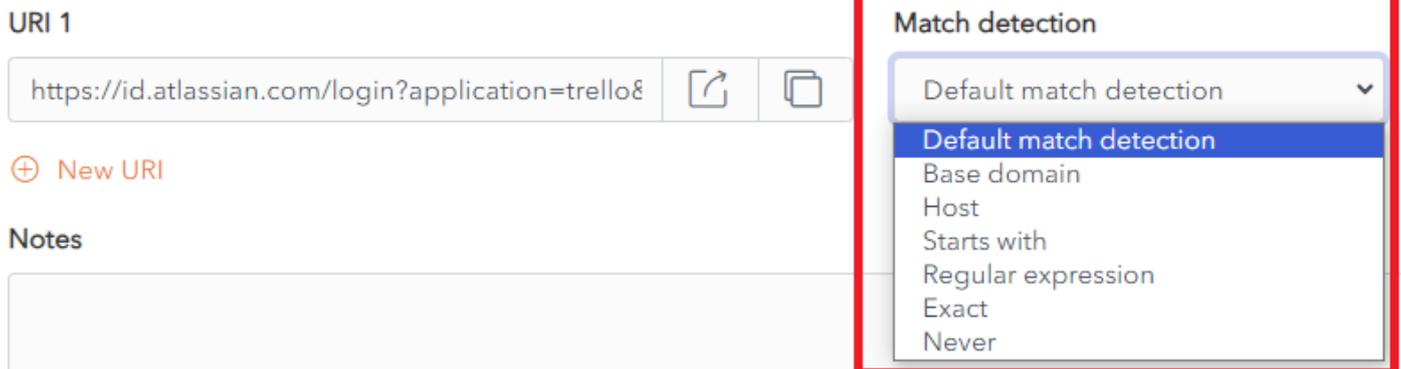
Defaut match detection

Base domain is the **default** option for **URI match detection.**

However, this can be **changed** in **Settings > Auto-fill** for **all Items.**

The Default match detection can be **specified** on a per item basis, in the Item Screen for **each item**. If not specified, the default option is used.

Base domain

If **Base domain** is chosen as the Default match detection for a URI, WALLIX will try to auto-fill all pages or apps where the **top-level domain (TLD) or second-level domain (SLD)** of the Page URI matches a the top-level domain or second-level domain of a Vault Item.

> This works with **country code top level domains** only. Local TLDs, e.g.
> **www.google.local** do not work. **Local TLDs** work with **Host matching**.

For example,

https://google.com

Auto-fill works:

- www.google.com
- calendar.google.fr

Auto-fill does not work:

- www.google.net

Host

If **Host** is chosen as the Default match detection for a URI, WALLIX will try to auto-fill all pages or apps where the **hostname** (**and port**, if specified) of the Page URI matches a the hostname (and port, if specified) of a Vault Item.

For example,

https://calendar.google.com:8080

Auto-fill works:

- calendar.google.com:8080
- calendar.google.com:8080/home.html

Auto-fill does not work:

- www.google.com (different subdomain and missing port)
- www.google.com:8080 (different subdomain)
- calendar.google.com:8081 (different port)

Starts with

If **Starts with** is chosen as the Default match detection for a URI, WALLIX will try to auto-fill all pages or apps where the Page URI **starts with** the URI of a Vault Item.

For example,

https://www.google.com/home/

Auto-fill works:

- https://www.google.com/home/index.html
- https://www.google.com/home/

Auto-fill does not work:

- https://www.google.com
- https://www.google.com:8080/home/ (port number added)
- https://www.google.com/home (missing trailing slash)

Regular expression

If **Starts with** is chosen as the Default match detection for a URI, WALLIX will try to auto-fill all pages or apps where the Page URI matches a **specified regular expression** associated with the URI of a Vault Item.

> Regular expressions are **case insensitive**.

For example,

^https://[a-z]+\.google\.com/index\.php

Auto-fill works:

- https://www.google.com/index.php
- https://fr.google.com/index.php

Auto-fill does not work:

- https://www.google.com/index/ (missing .php)
- https://malicious-site.com?q=google.com

For example,

^https://.*google\.com$

Auto-fill works:

- https://www.google.com
- https://fr.google.com/index.html
- **https://malicious-site.com?q=google.com**

> URI matching with Regular Expressions is an **advanced** option and should **only** be used **by those familiar** with using **Regular Expressions.**
>
> **Periods (.)** must be **escaped (\)** otherwise they will match on any character.

Auto-fill does not work:

- https://google.com/index/ (missing period (.))

Exact

If **Exact** is chosen as the Default match detection for a URI, WALLIX will try to auto-fill all pages or apps where the Page **URI** is an **exact match** for the URI of a Vault Item.

For example,

https://calendar.google.com/index.html

Auto-fill works:

- https://calendar.google.com/index.html

Auto-fill does not work:

- https://calendar.google.com/index.htm (index.htm instead of index.html)
- http://calendar.google.com/index.html (http instead of https)
- https://www.google.com/index.html (different subdomain)

> For **HTTPS**, even if Exact matching is not used, the Browser Extension will **warn before** auto-filling a **HTTP** site **if HTTPS** is **expected**.

Never

If **Never** is chosen as the Default match detection for a URI, WALLIX will **never** try to **auto-fill** all pages or apps using **that Vault Item.**

Equivalent Domains

It is possible to link equivalent domains, or domains that use the same login.

For example, calendar.google.com can be linked with www.google.com.

This can be done in **Settings > Domain Rules**.

> If **Exact match detection** is used an **equivalent domain** will **not** be **allowed**.

Auto-fill for iOS

Auto-fill is possible on an **iOS device** from your **Browser Extension** on **Chrome** or **Firefox** browsers.

Account Switching facilitates multiple logins at one time.

> **Auto-fill using Custom Fields** is **not supported** on **mobile** devices.

> **Vault Timeout** must be set to **Lock** (and not Log Out) **if NFC** is **required** for **Two-factor Authentication.**

Auto-fill using Keyboard

This is the **recommended** option.

Enable Auto-fill on Keyboard

From your **iOS device**, tap **Settings > Passwords > Password Options.**

The Autofill Passwords and Passkeys option is displayed.

Click **AutoFill Passwords and Passkeys** to **toggle** it **on**.

Click **WALLIX Vault** from the **Use Passwords and Passkeys From List**

AutoFill Passwords and Passkeys 🟢

AutoFill helps you sign in to apps and websites.

USE PASSWORDS AND PASSKEYS FROM:

🔑 iCloud Passwords & Keychain

🌐 Chrome

🦊 Firefox

Ⓖ Google

◢ WALLIX Vault   ✓

> It is **recommended** that **other Auto-fill services** are **disabled**, like Chrome Password Manager or iCloud Passwords & Keychain.

Using Auto-fill on Keyboard

Open an **app or website** where you are **not logged into**.

Tap either the **Username** or **Password** Fields.

A Username or the Passwords button is displayed.

- If a **Username** is displayed, **tap** it. The Login is **auto-filled**.
- If the **Passwords** button is displayed, **tap** it. A **list of Logins** is displayed. **Choose** the **Saved Login** for this website. The Login is **auto-filled**.
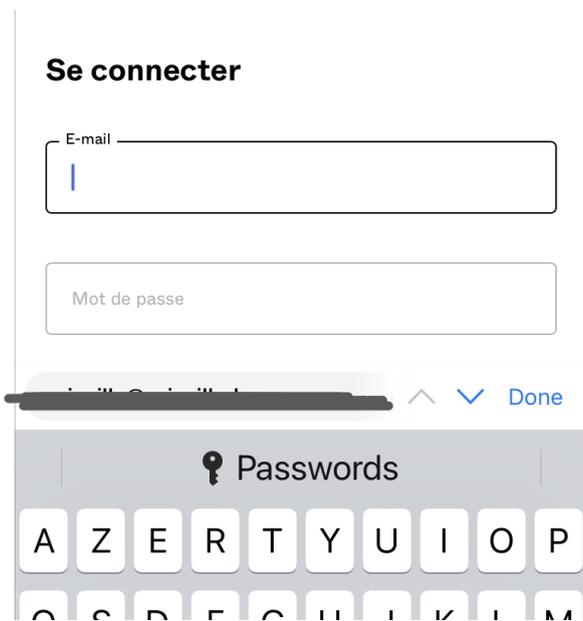
> Where a **Passwords button** is displayed, it is likely because the website **URI isn't an exact match** on a URI associated with a Vault Item.

Auto-fill using Browser Extension

Enable Auto-fill in Browser Extension

From the **WALLIX Browser Extension App**, tap **Settings > Autofill > App Extension**

Tap **Enable App Extension button**.

A **Share Menu** slides up. Tap **WALLIX**.

Using Auto-fill in Browser Extension

Open an **app or website** where you are **not logged into.**

Tap the **Share icon** in the Address Bar.

A Share menu is displayed.

Click the WALLIX Vault icon. A list of matching Logins is displayed.

Choose the correct Login to auto-fill.

Auto-fill for Android

Auto-fill is possible on an **Android device** from your **Browser Extension** on **Chrome** or **Firefox** browsers.

Account Switching facilitates multiple logins at one time.

A number of **auto-fill options** are available, **depending** on the **version** of **Android** that your device is running.

- Auto-fill Service
- Inline Auto-fill
- Accessibility
- Draw-Over

Auto-fill using Custom Fields is **not supported** on **mobile** devices.

Vault Timeout must be set to **Lock** (and not Log Out) **if NFC** is **required** for **Two-factor Authentication.**

Auto-fill Service

This facilitates **Auto-Fill** from the **Login Screen**.

Auto-fill Service is **available** on **Android 8+**. It requires **enabling** of **Auto-fill Services.**

Enable Auto-fill Service

From WALLIX Android App, tap **Settings > Auto-fill > Auto-fill Services**

Tap **WALLIX** from the **Auto-fill Services List**.

Tap **Confirm**.

Using Auto-fill Service

Tap on **Username** or **Password** fields on a webpage or an app.

A **pop up screen** will display **2 options**:

- The **Matching Login Item** from WALLX Vault. Tapping on this option **auto-populate**s the Login.
- **Auto-fill from WALLIX Vault**. Tapping on this option **opens** the **Vault** if the Vault is unlocked to **browse** the available **Login Items**.

If WALLIX Vault is **locked**, you will be **prompted** to **login** to your Vault.

Inline Auto-fill

This facilitates **Auto-Fill** from the **Keyboard Section**.

> **Inline Auto-fill**: Available on Android 11+. It requires **enabling** of **Autofill Service** and Input Method Editor (**IME**).

> If it **doesn't work**, it is **possible** that your **IME** does **not support inline**.

Enable Inline Auto-fill

From WALLIX Android App, tap **Settings > Auto-fill > Auto-fill Services**

Tap the **Use Inline Autofill** option to **toggle** it **on.**

Using Inline Auto-fill

Tap on **Username** or **Password** fields on a webpage or an app.

Logins matching the **URI** are displayed in the **keyboard section**.

Choose the **option** required.

It is **auto-filled** into your webpage or app.

Accessibility

This facilitates **Auto-Fill** from the **Login Screen**.

> Draw-Over is **available** in **Android 6+**. It requires **Enabling** of **Accessibility** and **Drawover**

Enable Accessibility

From WALLIX Android App, tap **Settings > Auto-fill > Auto-fill Services**

Tap the **Use Accessibility** option to **toggle** it **on.**

Using Accessibility

Tap on **Username** or **Password** fields on a webpage or an app.

A **pop up screen** displays an option to **Auto-fill from WALLIX Vault**.

Tap on this **option**.

If the Vault is **unlocked**, the Vault is **opened**.

If WALLIX Vault is **locked**, you will be **prompted** to **login** to your Vault.

Drawover

This facilitates **Auto-Fill** from the **Login Screen**.

> Accessibility is **available** on **all Android Versions**. It requires **Enabling** of **Accessibility**.

Enable Drawover

From WALLIX Android App, tap **Settings > Auto-fill > Auto-fill Services**

Tap the **Permit drawing over other apps** option to **toggle** it **on.**

Using Drawover

Tap on **Username** or **Password** fields on a webpage or an app.

A **pop up screen** displays an option to **Auto-fill from WALLIX Vault**.

Tap on this **option**.

If the Vault is **unlocked**, the Vault is **opened**.

If WALLIX Vault is **locked**, you will be **prompted** to **login** to your Vault.