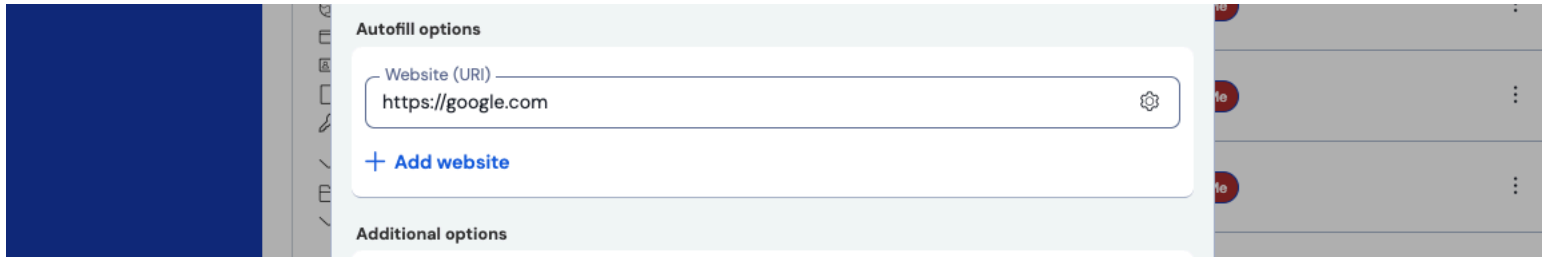


PASSWORD MANAGER > AUTOFILL

# Using URIs

## Using URIs

Any login item in your vault can have one or more Uniform Resource Identifiers (URIs). A URI can be a website address (URL), a server IP address, a mobile app package ID, and more.



Login item website fields in the web app

### Note

Assigning URIs to login items is required if you want to use autofill in various Bitwarden apps.

## URI schemes

Well-formed URIs should include a scheme at the beginning, for example the **https://** scheme to securely reference a website address. If no scheme is specified, **http://** is assumed.

### Tip

Most Bitwarden apps allow you to **Launch** a website or app directly from your vault. Without a scheme, launching won't work properly.

Launching applications is supported only in Android versions 13 and newer.

Schemes include:

- **http://** or **https://** reference website addresses (for example, **https://github.com**)
- **androidapp://** references an Android application package ID or name (for example, **androidapp://com.instagram.android**)

## Obtaining URIs for mobile apps

It can be tricky to obtain URIs for mobile apps. Here are a few tips for getting URIs on iOS and Android apps:

### ⇒ iOS apps

1. On the app's login screen, use **Passwords** to open Bitwarden.
2. Once Bitwarden is open, select the **+** icon on the top right corner of the screen.
3. The URI that has been included in the new vault item (if permitted by the app), can be copied and pasted into any existing login items.

### ⇒ Android apps

1. Visit the app's page in the Google Play Store.

2. Locate the share button and copy the link to your clipboard.
3. Paste the copied link somewhere you can read it. The link will look like:

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

The value after `id=` is your URI, in this case `com.instagram.android`.

## Match detection options

Each URI assigned to a login has an associated match detection option. This option determines when Bitwarden will offer the login as available for autofill, typically determined by matching against specific component pieces. The following graphic breaks down component pieces of a URI:



Diagram of a URI

## Default match detection

Bitwarden browser extensions and mobile apps allow you to select a **Default match detection** behavior from the options listed next by navigating to **Settings** → **Autofill** → **Default URI match detection**. You can override the globally-set detection on an item-by-item basis in all Bitwarden apps.

**Base domain** matching is the default option.

## Base domain

Selecting **Base domain** will prompt Bitwarden to offer autofill when the top-level domain and second-level domain of the URI match the detected resource. Base domain matching is implemented to work with any country code top-level domain (for example, `.it` or `.co.uk`)

For example, if the URI `https://google.com` uses base domain match detection:

URL	Autofill?
<code>http://google.com</code>	✓
<code>https://accounts.google.com</code>	✓
<code>https://google.net</code>	✗

URL	Autofill?
<code>http://yahoo.com</code>	✗

**Note**

Login items intended to autofill in a URI with a local TLD (e.g. `http://mysite.local` or `https://mysite.lan`) or single-term hostname (e.g. `http://localdevice`) will not be available for base domain detection. We recommend using [host matching](#).

## Host

Selecting **Host** will prompt Bitwarden to offer autofill when the hostname and (if specified) port of the URI matches the detected resource.

For example, if the URI `https://sub.domain.com:4000` uses host match detection:

URL	Autofill?
<code>http://sub.domain.com:4000</code>	✓
<code>https://sub.domain.com:4000/page.html</code>	✓
<code>https://domain.com</code>	✗
<code>https://sub.domain.com</code>	✗
<code>https://sub2.sub.domain.com:4000</code>	✗
<code>https://sub.domain.com:5000</code>	✗

**Warning**

While using [keyboard based suggestions](#), iOS will always use base domain matching for autofill suggestions. Opening the Bitwarden app during login will allow you to manually select the appropriate app for autofill.

## Starts with

Selecting **Starts with** will prompt Bitwarden to offer autofill when the detected resource starts with the URI, regardless of what follows it.

For example, if the URI `https://sub.domain.com/path/` uses starts with match detection:

URL	Autofill?
<code>https://sub.domain.com/path/</code>	✓
<code>https://sub.domain.com/path/page.html</code>	✓
<code>https://sub.domain.com</code>	✗
<code>https://sub.domain.com:4000/path/page.html (interrupted with a port)</code>	✗
<code>https://sub.domain.com/path (absent trailing slash)</code>	✗

## Regular expression

### Warning

Regular expressions are an advanced option and can be quite dangerous if used incorrectly. You should not use this option if you do not know exactly what you are doing.

Selecting **Regular expression** will prompt Bitwarden to offer autofill when the detected resource matches a specified [regular expression](#). Regular expressions are always case insensitive.

### Unsafe example

If the URI `^https://.*google\.com$` uses regular expression match detection:

URL	Autofill?
<code>https://google.com</code>	✓
<code>https://sub.google.com</code>	✓
<code>https://malicious-site.com?q=google.com</code>	✓

URL	Autofill?
<a href="http://google.com">http://google.com</a>	✗
<a href="https://yahoo.com">https://yahoo.com</a>	✗

This probably matches more than what is intended. Consider avoiding periods (`.`), which unless escaped (`\`) match on any character.

### Safe example

If the URI `^https://[a-z]+\\.wikipedia\.org/w/index\.php` uses regular expression match detection:

URL	Autofill?
<a href="https://en.wikipedia.org/w/index.php?title=Special:UserLogin&amp;returnto=Bitwarden">https://en.wikipedia.org/w/index.php?title=Special:UserLogin&amp;returnto=Bitwarden</a>	✓
<a href="https://pl.wikipedia.org/w/index.php?title=Specjalna:Zaloguj&amp;returnto=Bitwarden">https://pl.wikipedia.org/w/index.php?title=Specjalna:Zaloguj&amp;returnto=Bitwarden</a>	✓
<a href="https://en.wikipedia.org/w/index.php">https://en.wikipedia.org/w/index.php</a>	✓
<a href="https://malicious-site.com">https://malicious-site.com</a>	✗
<a href="https://en.wikipedia.org/wiki/Bitwarden">https://en.wikipedia.org/wiki/Bitwarden</a>	✗

### Exact

Selecting **Exact** will prompt Bitwarden to offer autofill when the URI matches the detected resource exactly.

For example, if the URI `https://www.google.com/page.html` uses exact match detection:

URL	Autofill?
<a href="https://www.google.com/page.html">https://www.google.com/page.html</a>	✓

URL	Autofill?
<a href="http://www.google.com/page.html">http://www.google.com/page.html</a>	✘
<a href="https://www.google.com/page.html?query=123">https://www.google.com/page.html?query=123</a>	✘
<a href="https://www.google.com">https://www.google.com</a>	✘

### Tip


As shown in the table, you can use exact match detection to restrict autofill to only <https://> sites. Note that, whether you use exact or not, browser extensions will warn users before autofilling an HTTP site when HTTPS is expected based on that item's saved URI(s).

## Never

Selecting **Never** will prompt Bitwarden to never offer autofill for the item.

## Equivalent domains

Equivalent domains, which can be set from the **Account settings** → **Domain rules** page of the web vault, allow you to link domains for easier autofill. For example, setting [turbotax.com](https://turbotax.com) and [intuit.com](https://intuit.com) as equivalent means that a vault item with [turbotax.com](https://turbotax.com) saved as a URI will also be offered for auto-fill at [intuit.com](https://intuit.com).

Bitwarden maintains a vetted list of default equivalent domains of major sites, for example [apple.com](https://apple.com) and [icloud.com](https://icloud.com), to improve your autofill experience. You can disable any given equivalence by hovering over it and using the  options menu to select **✘ Exclude**.

### Tip

An equivalent domain will be negated for an item that uses [exact match detection](#). For example, an item with the saved URI [apple.com](https://apple.com) set to **Exact** will not offer autofill for [icloud.com](https://icloud.com) despite that being a default equivalent.