



Passwordstate Browser Extension Manual

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1 Introduction




Welcome to the Passwordstate Browser Extension Manual.

The Browser Extension for Passwordstate allows automatic saving of web site logins into Passwordstate, and then automatic form-filling of your login credentials when you next visit the site.

Currently the Browser Extension is available for Chrome, Edge, Firefox and Internet Explorer (Internet Explorer extension is no longer developed or supported).


The following table summarizes each of the key areas for configuring and using the Passwordstate Browser Extension.


 Note: The browser extensions do require you to have cookies enabled in your browser


| | |
|--|--|
| Installation | Explains how to install the Browser Extension, and configure for use |
| Browser Extension Settings | Explains the various settings for the Browser Extension |
| Browser Extension Usage | Provides instructions for basic usage of the Browser Extension for Chrome and Firefox |
| Browser Extension Usage - Legacy | Provides instructions for basic usage of the Browser Extension for Safari, Edge and Internet Explorer |
| Detection Issues | Provides some guidance as to issues you may come across with certain web sites not prompting to save login credentials |

2 Installation

Please follow these steps for installing and configuring the Browser Extension. Please note that screenshots here are for Chrome, with Internet Explorer and Firefox looking similar.

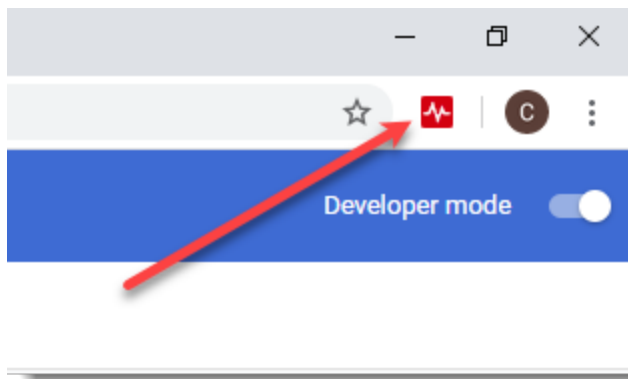
 Note 1: In order to use one of the Browser Extensions to save and auto-fill login credentials for websites, you must have access to one or more Password Lists which are configured to use the 'URL' field.

 Note 2: Currently our extensions only support websites with two login fields, which is username and password

 **Note 3:** Due to major changes in the Safari extension, we no longer have an extension available to download from the Apple store for that browser. We recommend using Chrome on Apple MACs as a work around for this, if possible.


Chrome Installation

1. Visit the Google Chrome Web Store store URL of <https://chrome.google.com/webstore/category/extensions> and search for the extension name Passwordstate. Alternatively, download directly from <https://chrome.google.com/webstore/detail/passwordstate/appojfilknpgkhkebigcdkmopdfcjhim>
2. Click the '+ Free' button to install the extension, and click the 'Add' button when prompted to 'Confirm New Extension'
3. Once installed, you should see the Passwordstate icon in the top toolbar

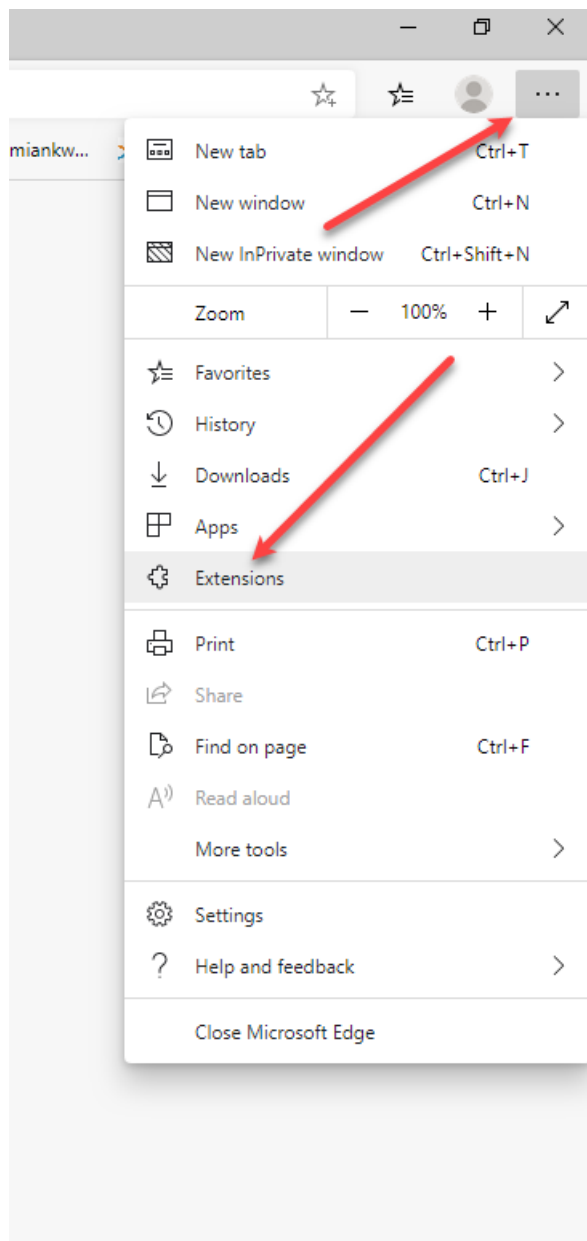


Edge Installation

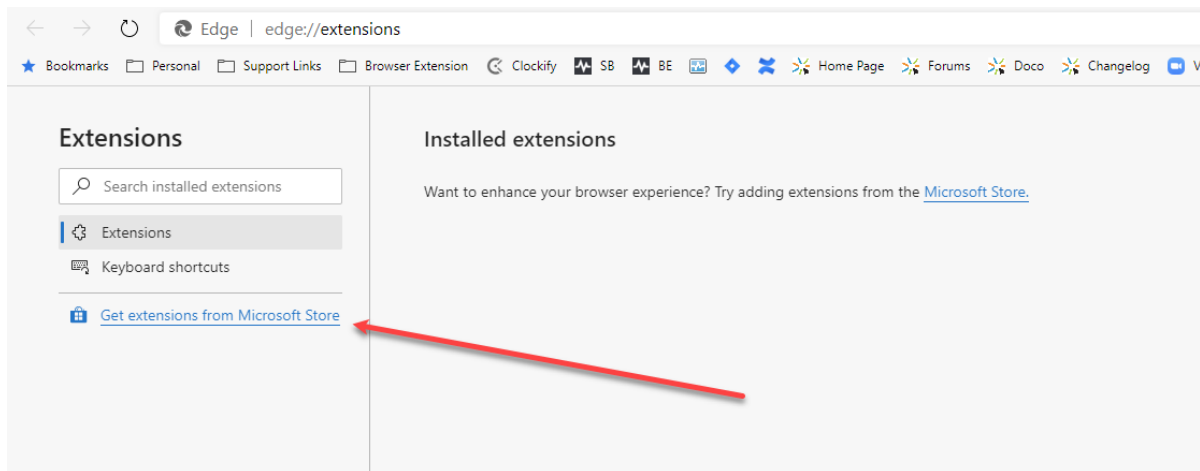
You can download and install the Edge extension using the following screenshot instructions

 **Please Note:** These instructions apply to the new Chromium version of Microsoft Edge, which was released on January 15th, 2020.

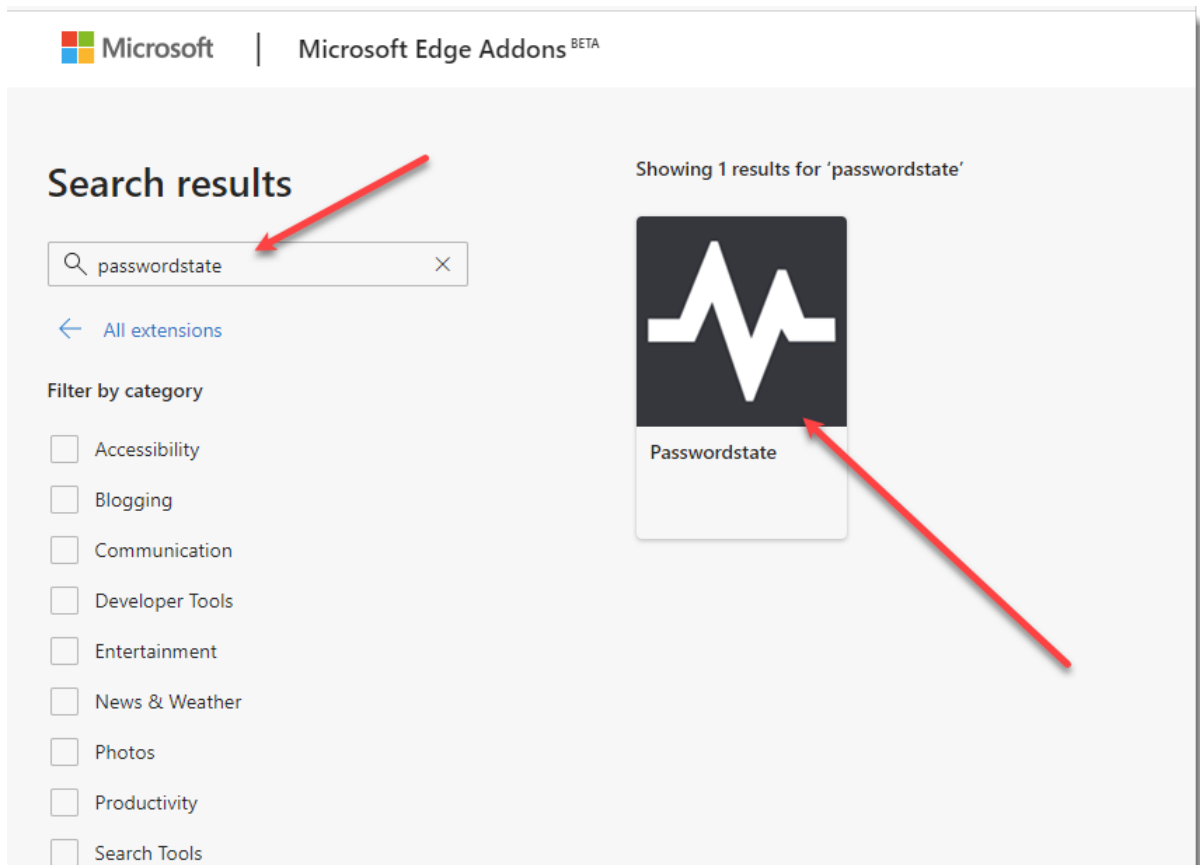
1. Open **Settings** -> **Extensions**



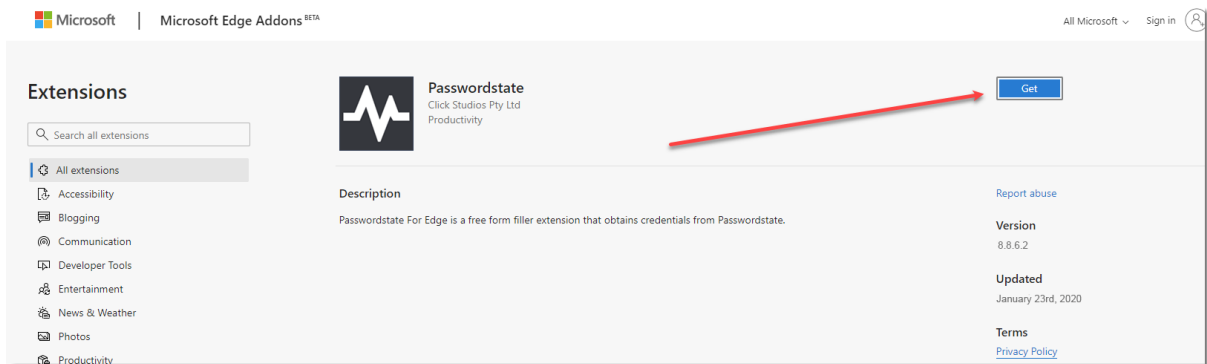
2. Browse to the Microsoft store



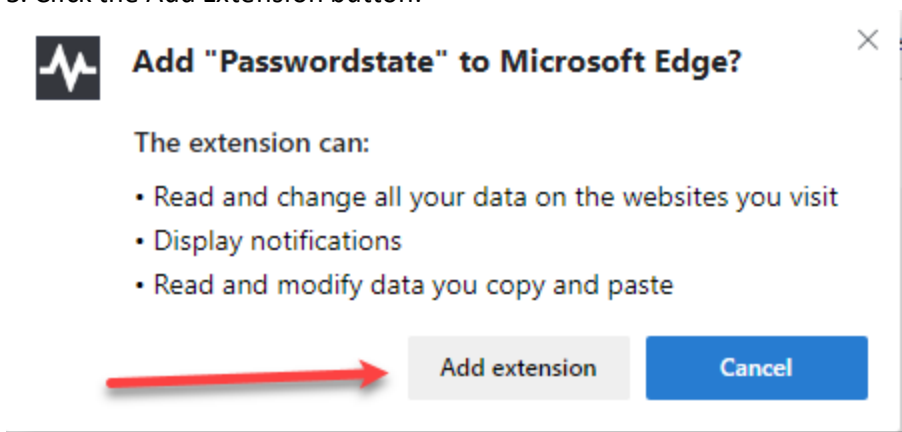
3. Search for "Passwordstate" and click on the Passwordstate icon:



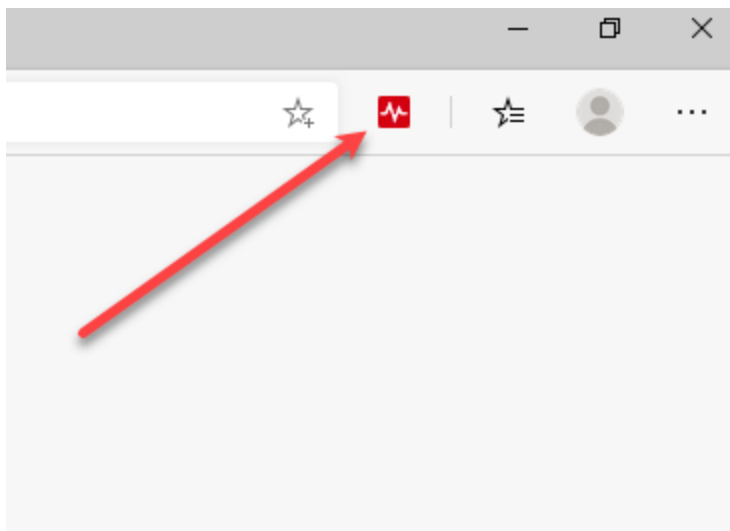
4. Select the Get button:



5. Click the Add Extension button:




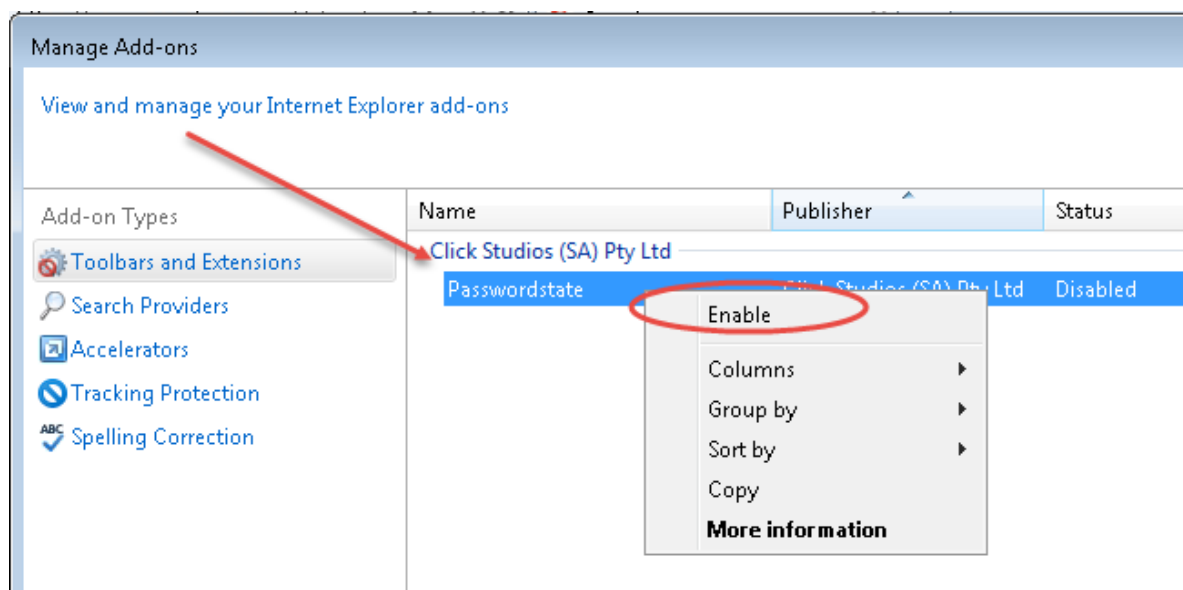
You should now have the extension installed and ready to configure



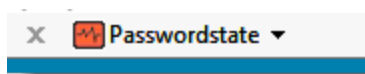
Internet Explorer Installation

1. You can download the version of the IE extension from here - <https://www.clickstudios.com.au/downloads/PasswordstateIEExtension.zip>. When you unzip this file, you can use the following syntax to install silently if required: Passwordstate.exe /S
2. When you start Internet Explorer next time, you may be prompted to Enable the Extension. If you do not see this prompt, you can go to the 'Manage Add-ons' screen and enable it there - as per the following screenshot

 **Note:** There will be no further development work done on the IE Extension, for either feature requests or bug fixes - It is recommended you instead use one of the other browsers. You can continue to use the IE Extension if it works for your organization, but please do not log support calls for any issues.

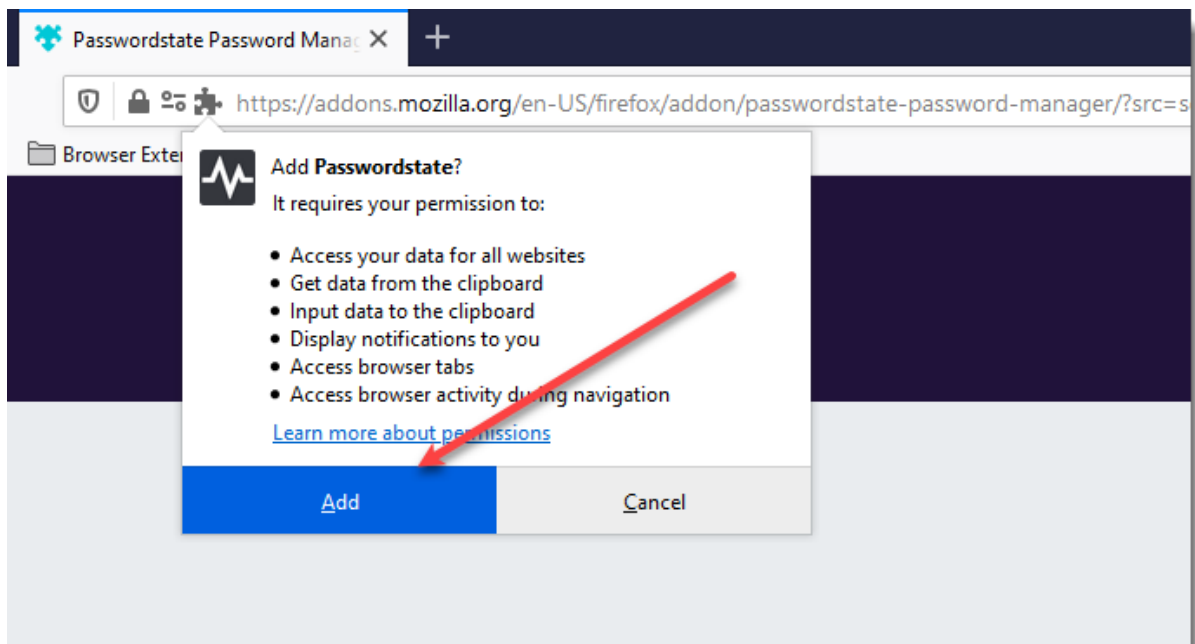


3. The Red icon should then show in the toolbar, and you can then continue on with the instructions below to configure the extension

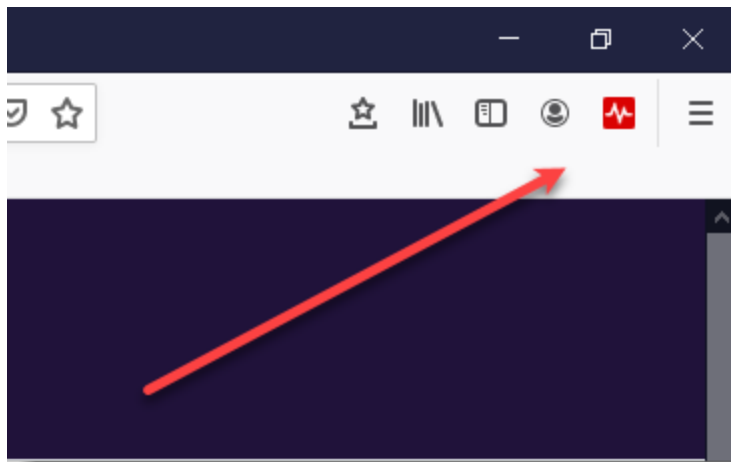


Firefox - Installation

1. Visit the Mozilla Add-ons store URL of <https://addons.mozilla.org/en-US/firefox/> and search for the extension name Passwordstate. Alternatively, download directly from <https://addons.mozilla.org/en-US/firefox/addon/passwordstate-password-manager/>
2. Click the Add button

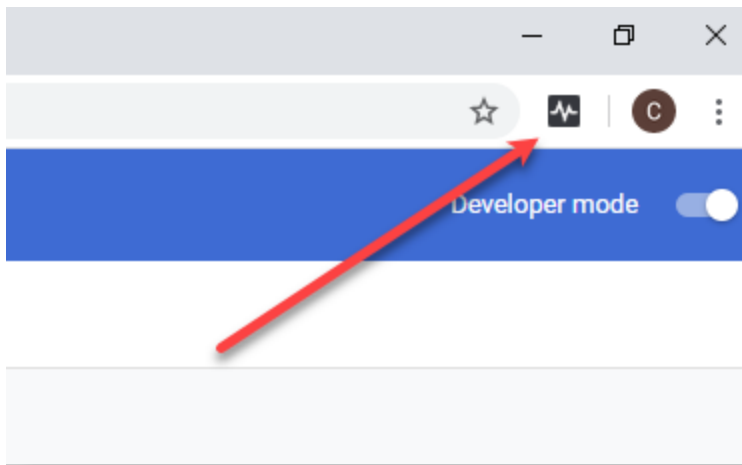


Once installed, you will see the Red icon in your toolbar



Configuring Extension for First-Time Use

In order to use the Browser Extension, all you need to do is browse to your Passwordstate web site, and the Browser Extension will be automatically configured for you. Once configured, the icon will appear like this:



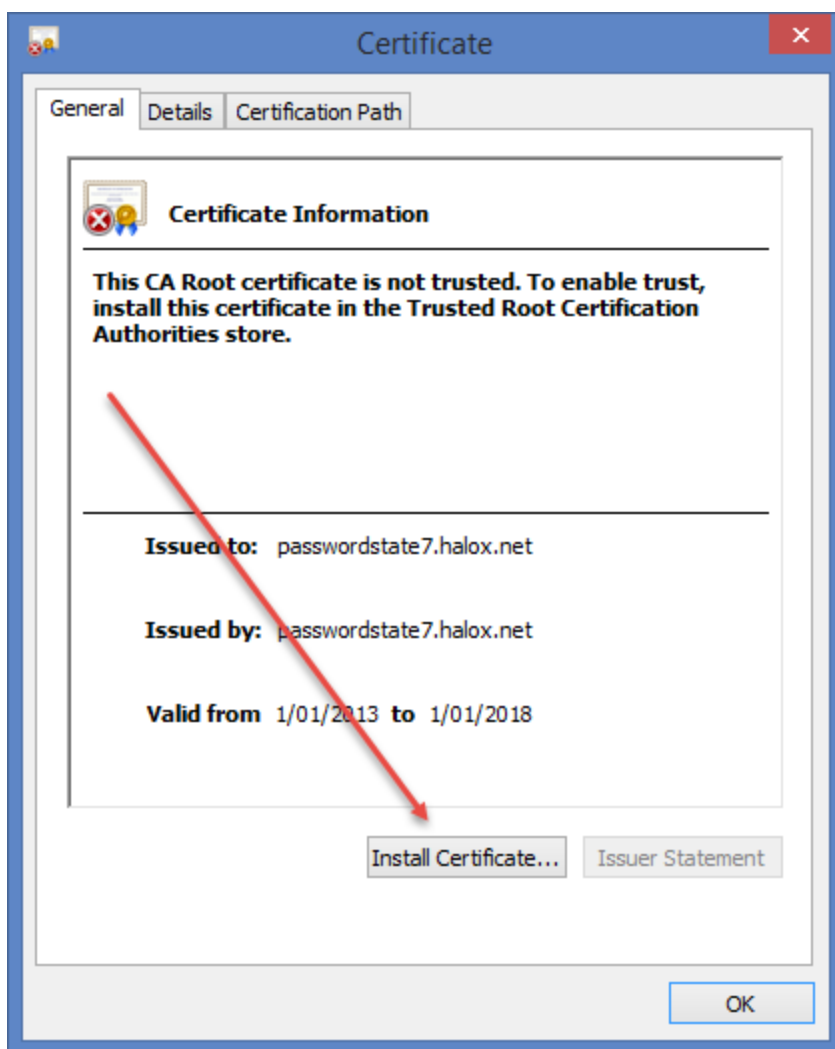
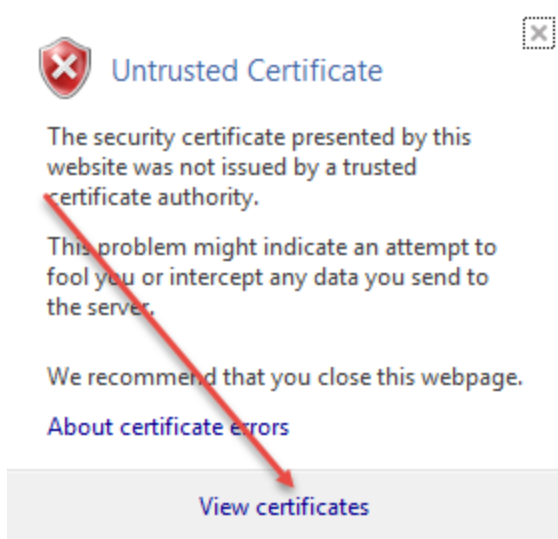
Non-Trusted SSL Certificate Issue

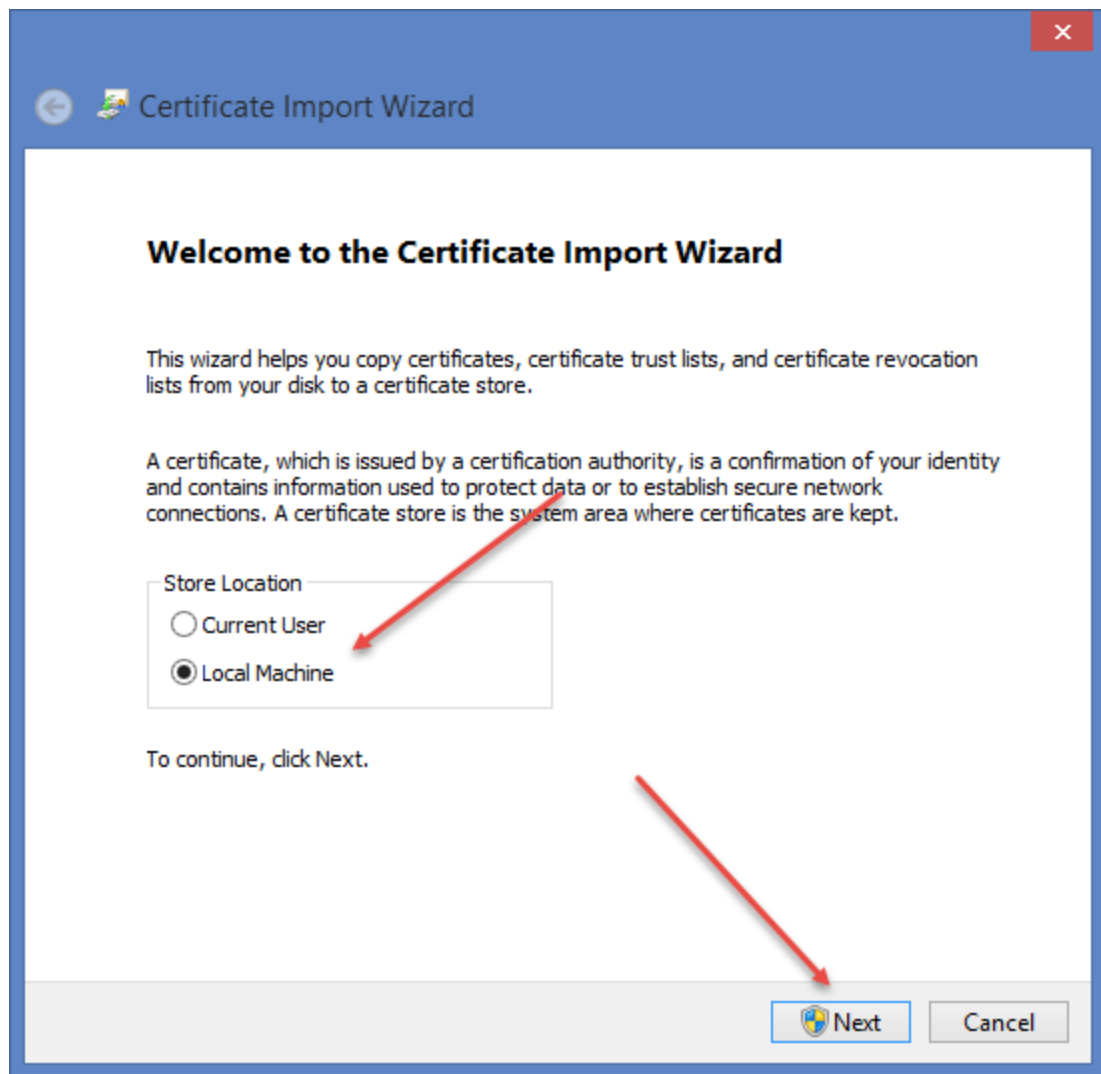
With the default install of Passwordstate, a self-signed SSL Certificate is installed in Internet Information Services (IIS) and assigned to the Passwordstate web site. All self-signed SSL certificates are non trusted by browsers, and this can cause issues with the Passwordstate Browser Extension. To fix this you have two options:

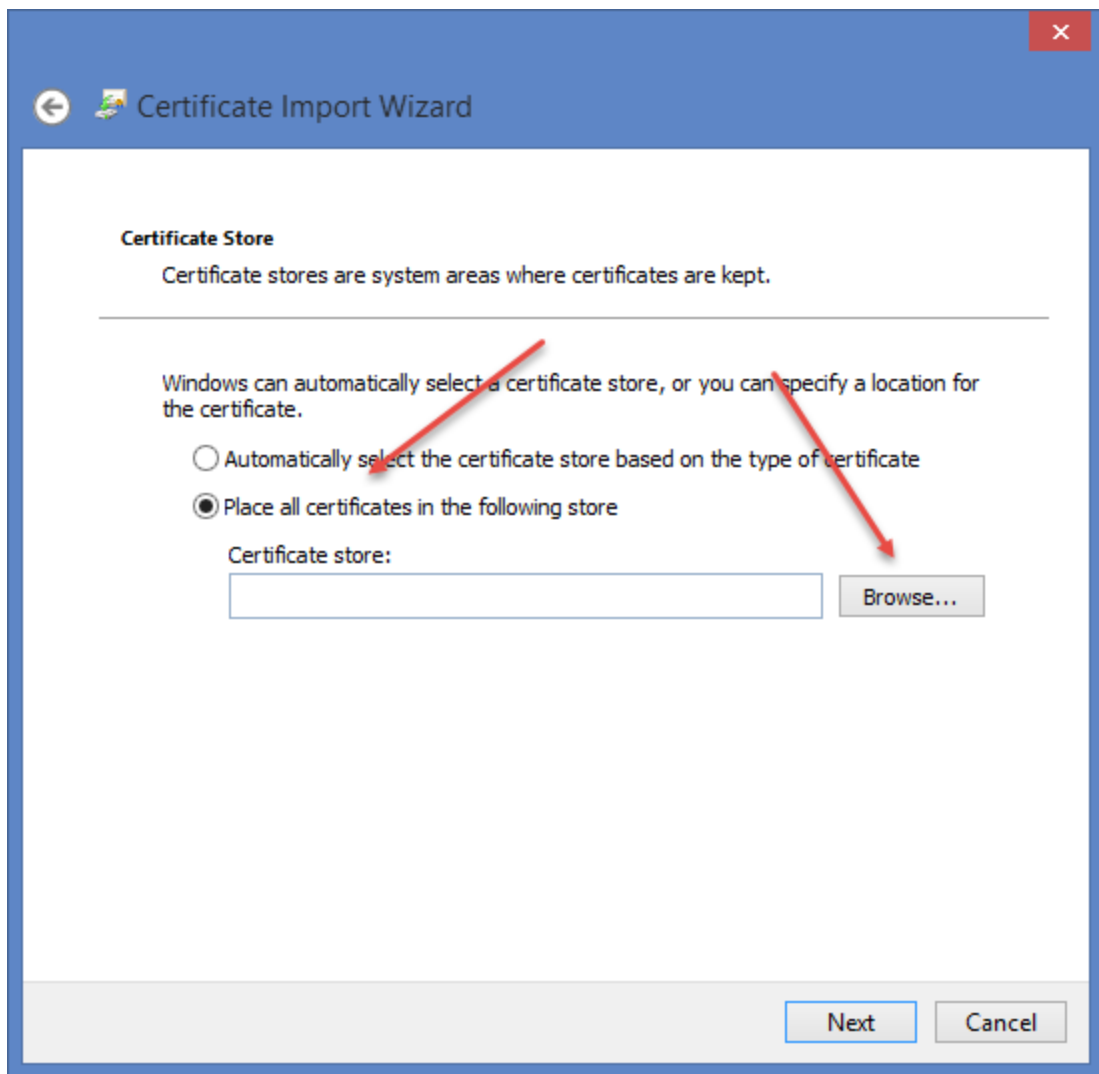
1. Install your own trusted SSL certificate on your web server, and bind it to the Passwordstate web site. This is the most secure option as the certificate is trusted by all browsers. You can either purchase the certificate from one of the public certificate authorities, or if you have your own internal certificate authority as part of Active Directory, you can assign a certificate out of here
2. If it's not possible to use a trusted SSL certificate, then you will need to follow the instructions below to tell Internet Explorer the Self Signed Certificate is trusted - doing these steps in Internet Explorer also fixes the issue other browsers.

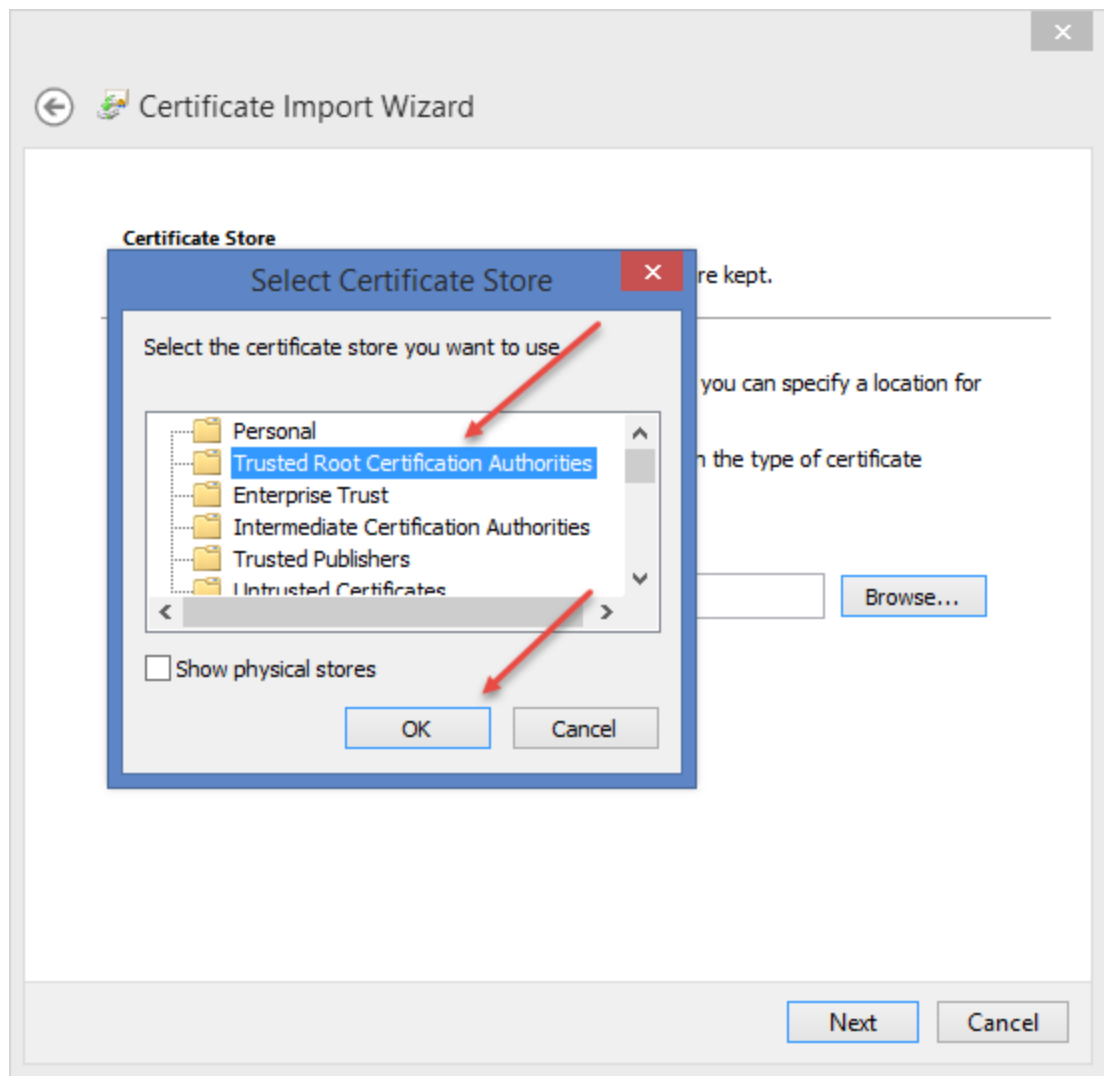
Browse to the site in Internet Explorer, and click on 'Certificate error', and then follow the screenshots below to trust the certificate.

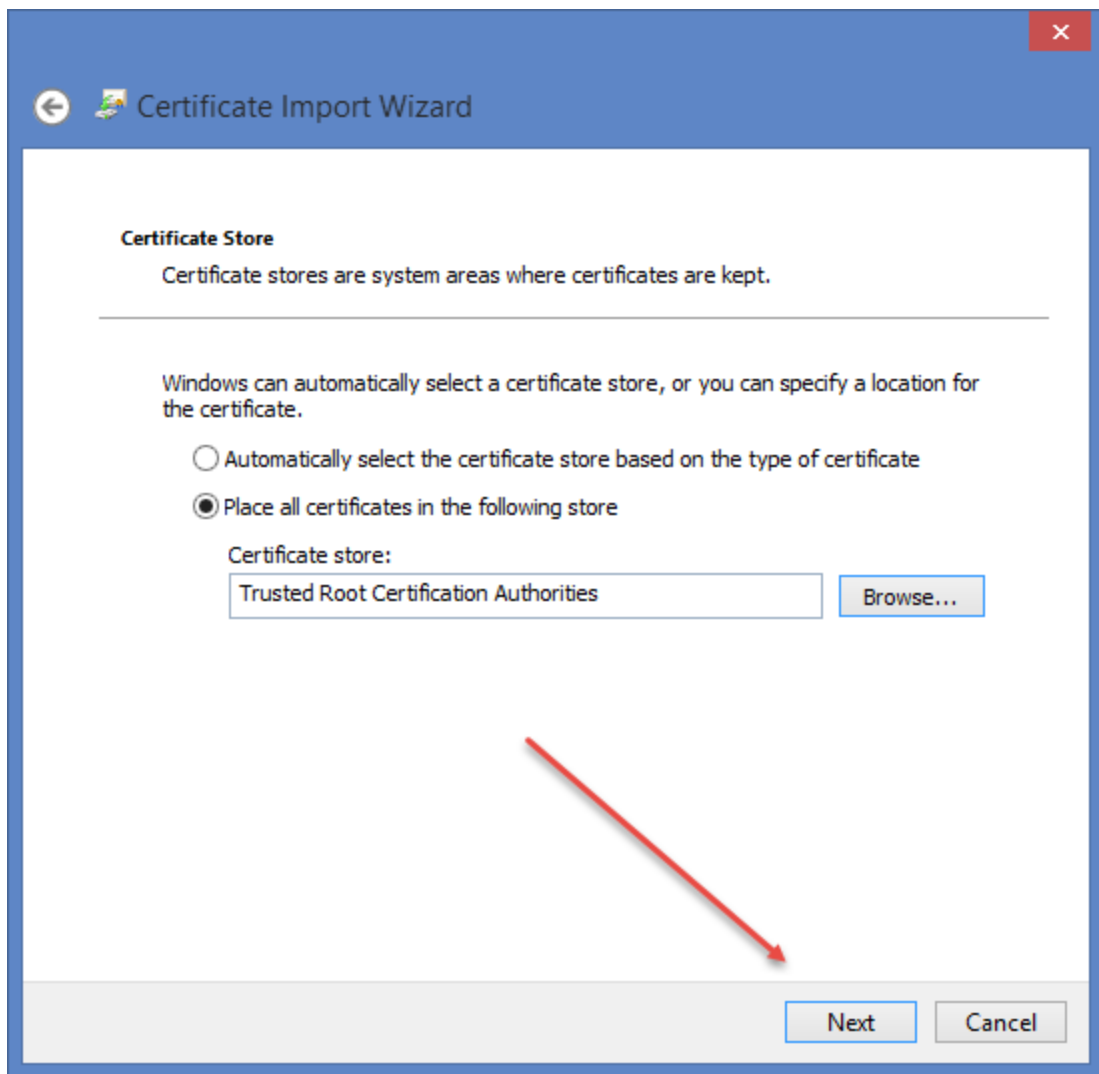


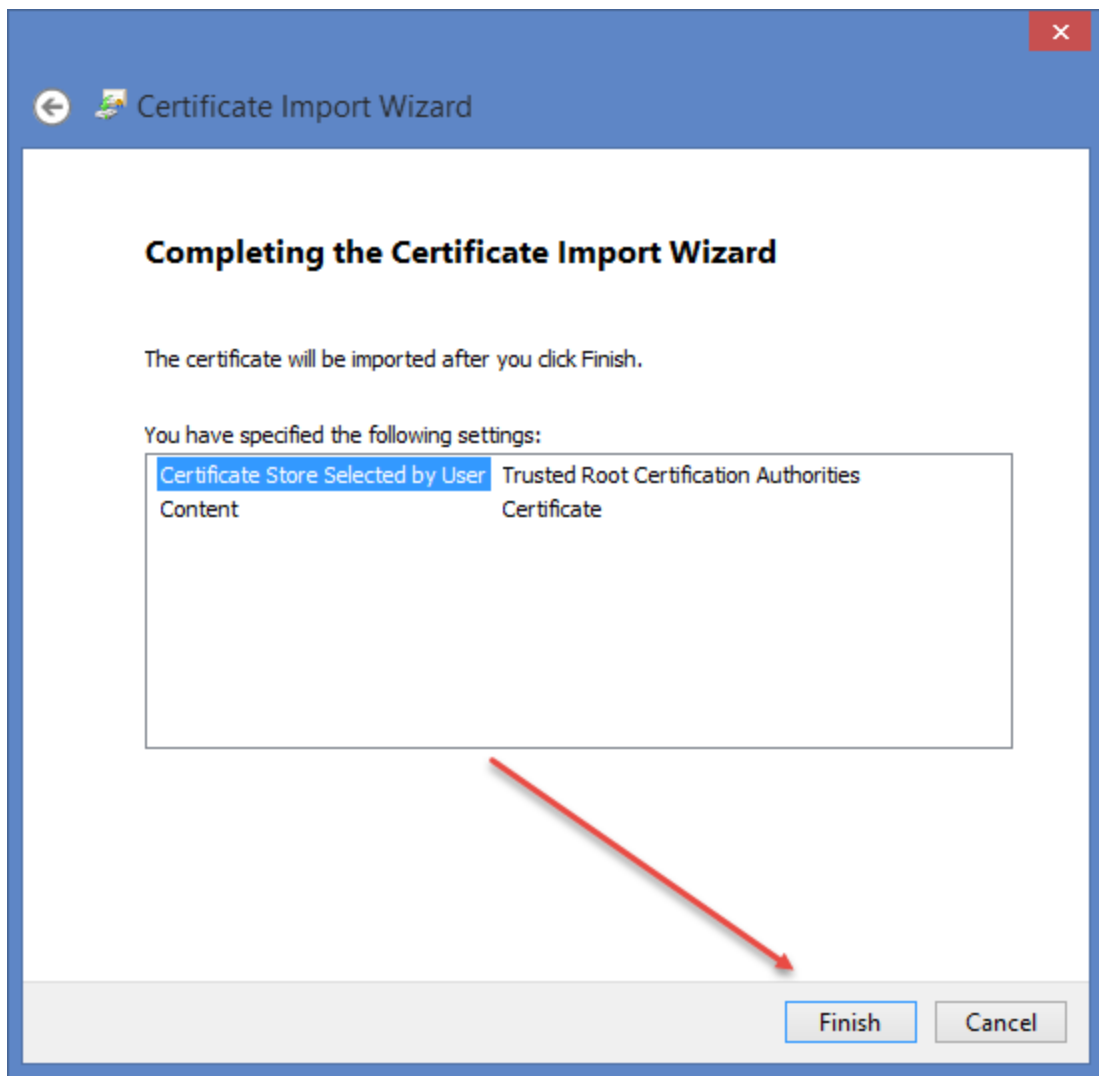












Secure Cookies, Internet Explorer, and FQDN URL for Passwordstate

If using Internet Explorer, this browser does require the use of a FQDN URL for cookie creation i.e. <https://passwordstate.domain.com> instead of <https://passwordstate>


As Passwordstate's Browser Extensions do use secure cookies as part of their authentication process, if you find your Browser Extension not auto-configuring i.e. Icon does not turn from Red to White when you browse to your Passwordstate web site, then this may be caused by you not using a FQDN URL. You can also check auditing data within the Administration area for any logging of authentication issues.


3 Browser Extension Settings

There are various settings within Passwordstate which governs how the Browser Extension can be used. These settings can be per user based (Preferences screen) or System Wide (within the Administration menu).

Per User Settings

In the Preferences Screen, under the 'Browser Extension' tab, you will find various settings for automatically logging out of the extension, and also for ignoring certain URLs.

 **Note:** The Extension Logout Settings do not currently work for the Internet Explorer.

 Preferences

To modify your preferences for Passwordstate, please make changes in the relevant tabs below, then click on the 'Save' button.

home page

miscellaneous

color theme

authentication options

mobile access options

browser extension

remote session launcher

To configure your Passwordstate Browser Extension, please copy and paste the encrypted URL below into the Preferences screen for your extension.

Extension Logout Settings

Please specify settings below for automatically logging out of your Browser Extension.

Automatically log out of the Browser Extension when you close the browser:

☐ Yes ☒ No


Automatically log out of the Browser Extension when the browser has been idle for (x) minutes:

(Setting to 0 disables this feature)

Ignored URLs

You can ignore certain URLs from prompting to save login credentials by adding them below.

Enter the base URL here e.g. mypasswordstate.domain.com

| Actions | URL |
|---|--|
|  | <input type="text" value="mypasswordstateurl.domain.com"/> |

Save

Save & Close

System Wide Settings

When you navigate to the screen Administration -> Browser Extension Settings, you will see more settings for automatically logging out the extension, URLs to ignore for all users, and which users are allowed to use the extension and/or save no login credentials

Browser Extension Settings

Use each of the appropriate Tabs below to indicate TimeOut Settings, which URLs are ignored by the Browser Extension, which users are allowed

extension logout settings

ignored urls

allowed to use the extension

prevent users from saving logins

Please specify the settings below for automatically logging users out of their Browser Extension.

Automatically log the user out of their Browser Extension when they close the browser:

☐ Yes ☒ No

Automatically log the user out of their Browser Extension when the browser has been idle for (x) minutes:

(Setting to 0 disables this feature)

Browser Extension Settings

Use each of the appropriate Tabs below to indicate TimeOut Settings, which URLs are ignored by the Browser Extension, which users are allowed

extension logout settings


ignored urls

allowed to use the extension

prevent users from saving logins

Add the URLs below which will be ignored when users try and save web site login credentials.

Enter the base URL here e.g. mypasswordstate.domain.com

| Actions | URL |
|---|---|
| | <input type="text"/> <input type="button" value="Y"/> |
|  | clickstudios |

Browser Extension Settings

Use each of the appropriate Tabs below to indicate TimeOut Settings, which URLs are ignored by the Browser Extension, which users are allowed to


extension logout settings


ignored urls

allowed to use the extension


prevent users from saving logins

Specify which users are allowed to use the Browser Extension. If users don't have permissions, the Browser Extension tab on their Preferences screen will be hidden, and the extension will not be able to auto-configure itself for use.

Search :  ☒ User ☐ Security Group

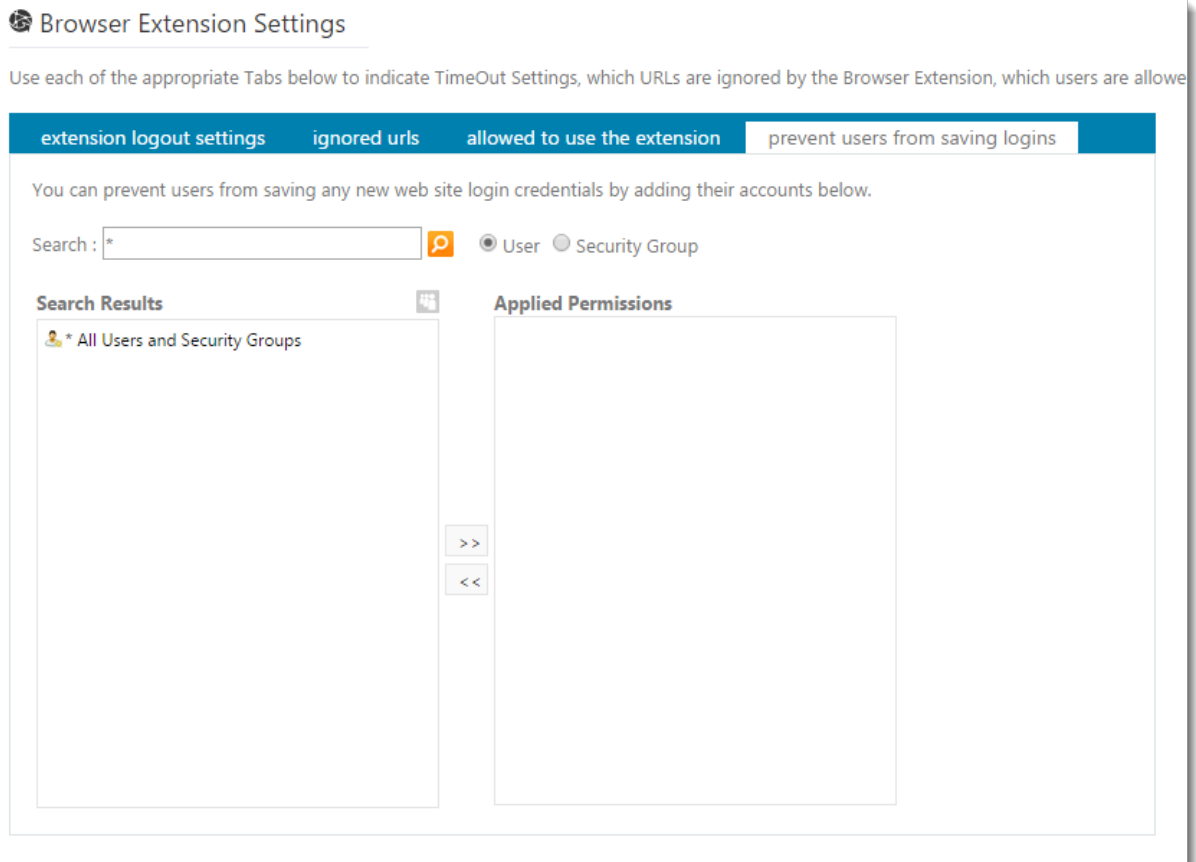
Search Results 

Applied Permissions

 * All Users and Security Groups

>>

<<



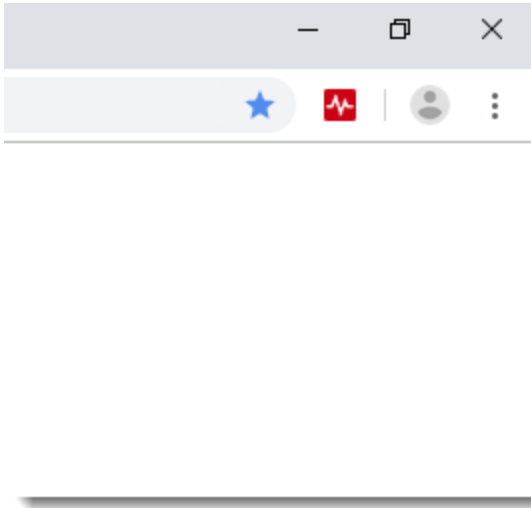
4 Browser Extension Usage

This section of the manual applies to our Chrome, Firefox and Chromium Edge Browser Extensions - these new versions of the extension are available in Build 8792 or above for Chrome, and Build 8835 or above for Firefox, or 8862 for Edge. For any other Chromium based browser, such as Brave, it is possible to load in the extension directly from the Google Store.

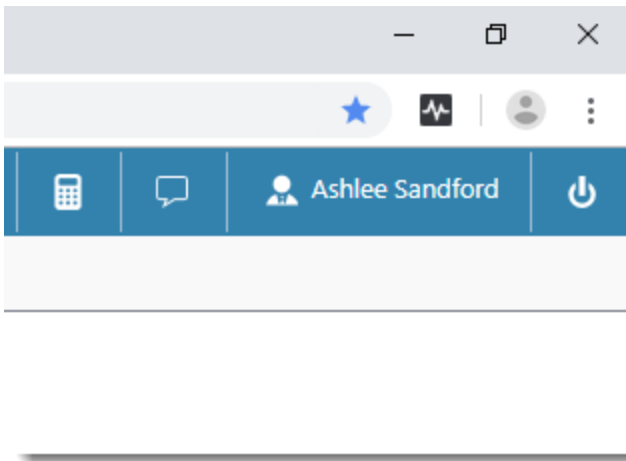
Please refer to the next "Legacy" section of this documentation for the Internet Explorer usage instructions.

Configuring the Browser Extension

When you first install your Browser Extension, its icon will be **red**, indicating that it is not currently communicating to your Passwordstate vault:

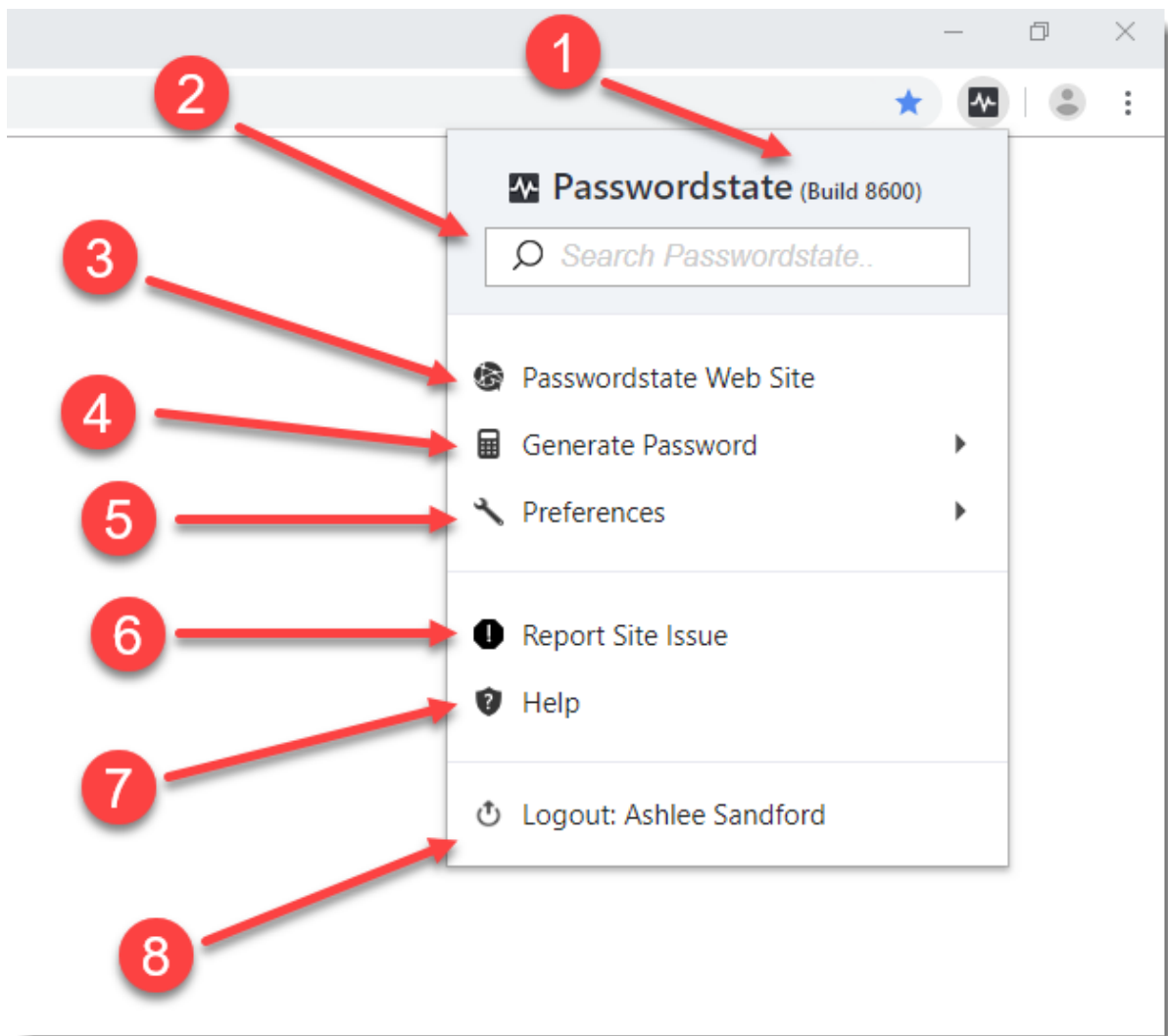


To configure your browser extension, you should browse to your Passwordstate website and log in. Your extension icon will turn grey and it will now be able to save and auto-filling credentials securely to and from your Passwordstate vault:



User Interface

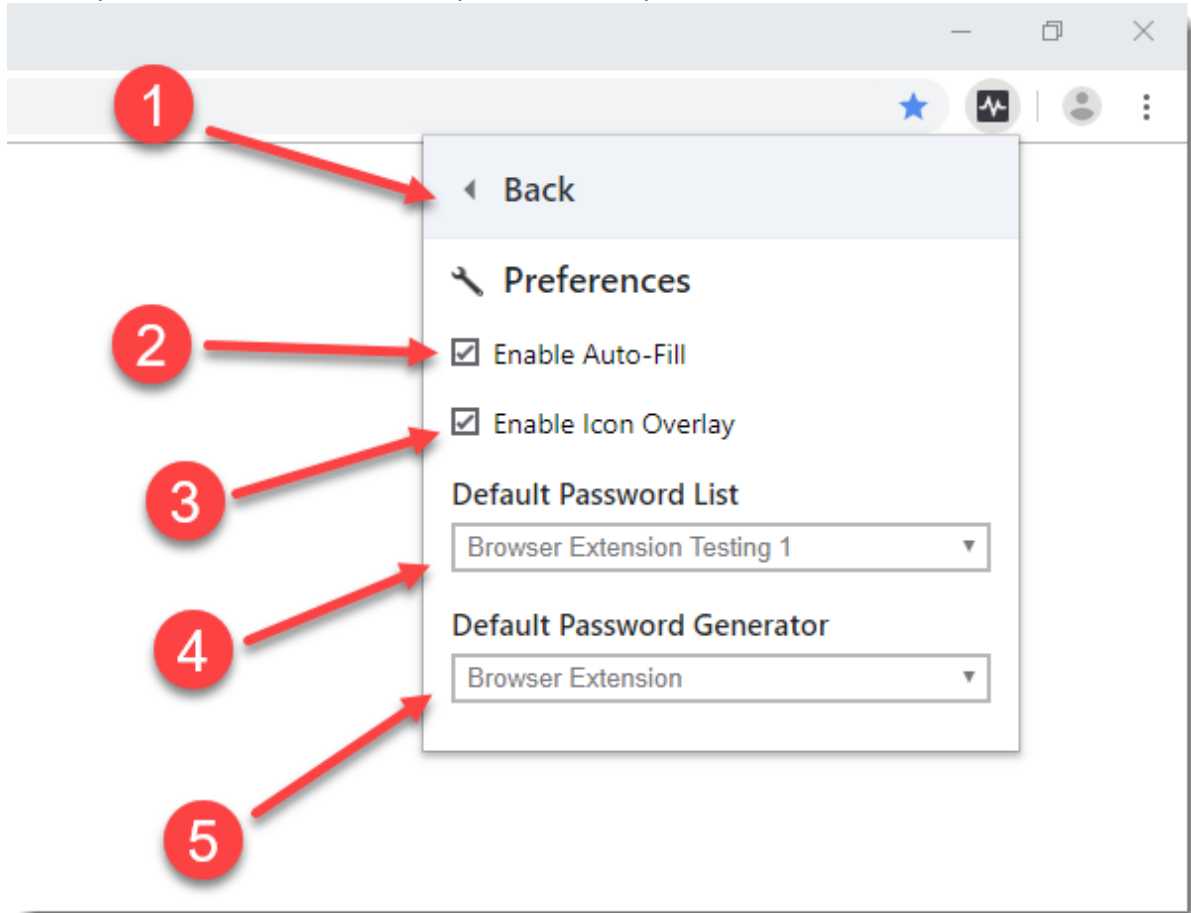
When clicking on the browser extension icon, you'll be presented with a page which includes several options which are explained below:



1. Browser Extension version.
2. Search tool, which can be used to quickly find a password record in your vault for a specific web site.
3. A link directly to your Passwordstate website.
4. Generate Password Tool - Clicking this will take you to another page where you can generate passwords with different complexities. This can be used when creating a new password for a website for example.
5. Personal Preferences - More about this explained below.
6. Report a Site issue - If the browser extension is not form filling a website, or does not capture the log in credentials automatically for you, you can use this button to report it directly to Click Studios. This will be tested and a Click Studios support person will be in touch on how to fix this.
7. A link to open the Browser Extension Help Manual
8. Log Out button, used to disconnect your extension from your Passwordstate vault.

Preferences

On the personal Preferences screen you have five options:



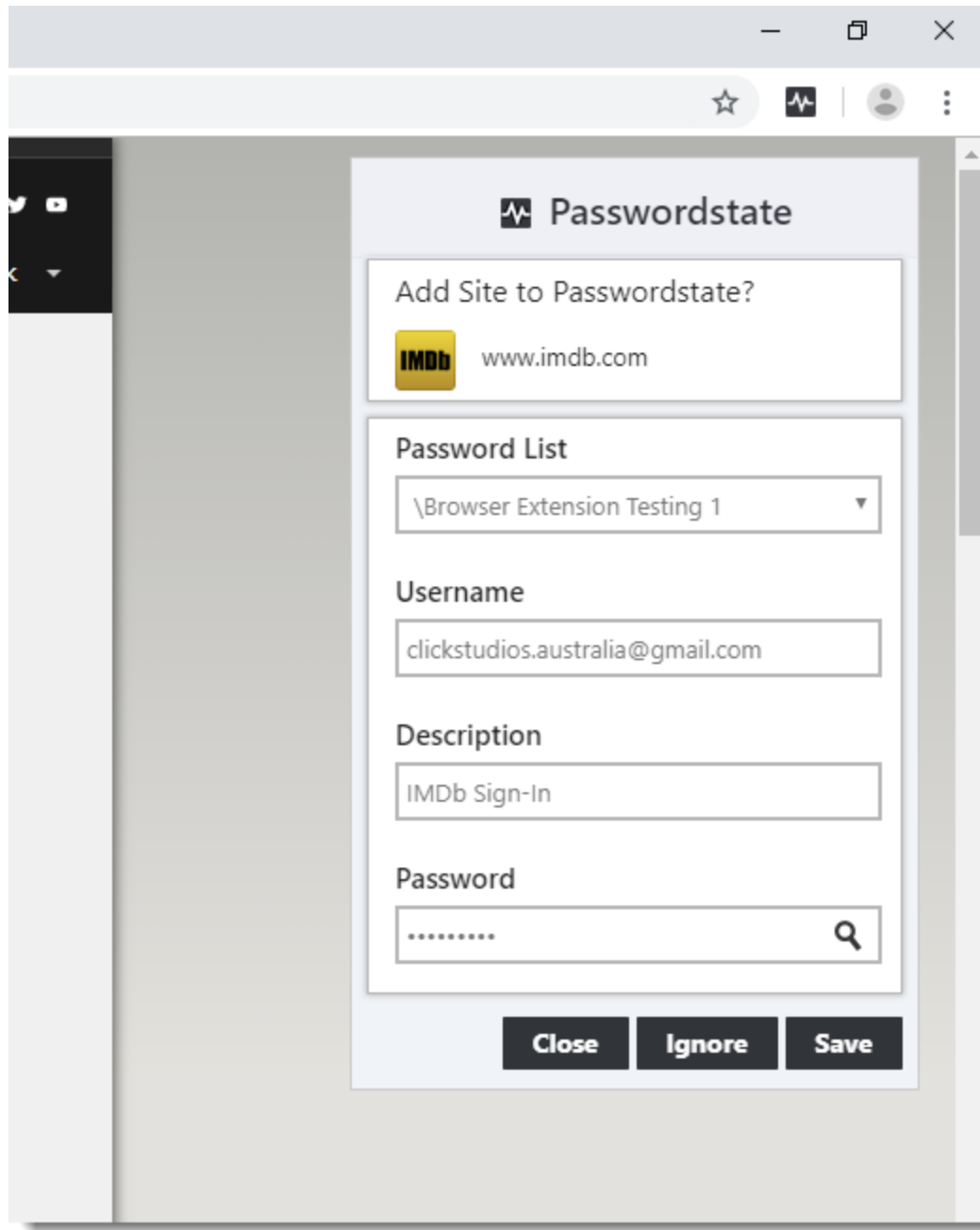
1. A back button to return to the main page
2. A check box to toggle the auto-fill function on website. Disabling this option will ensure the Browser Extension does not enter login credentials on any website you visit.
3. The Enable Icon Overlay check box disables the browser extension icon in the login fields on all websites - More about this explained below
4. The Default Password List drop down allows you to set a Password List which all new login credentials will be saved to.
5. The Default Password Generator allows you to set a password generator of your choice, which will be used when creating new passwords for login forms.

Saving Log in Credentials

When logging into a website, you will be presented with a page that will ask you if you want to save the credentials into Passwordstate. If you already have the credentials saved it will not ask

you to save them a second time. On this screen you have the option to choose which Password List to store the data into, and the **Username**, **Description** and **Password** fields are editable prior to saving if desired. Use the magnifying glass icon to toggle the visibility of the password.

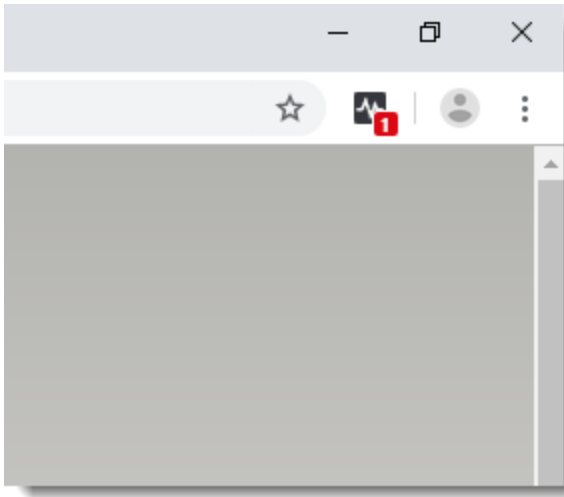
Clicking the **Close** button will not save the credentials to your vault, and clicking the **Ignore** button will prevent the browser extension from ever asking you to save credentials from that website again. All Ignored URLs are saved under your own personal preferences in Passwordstate, and if needed URLs can be removed, or added from there.



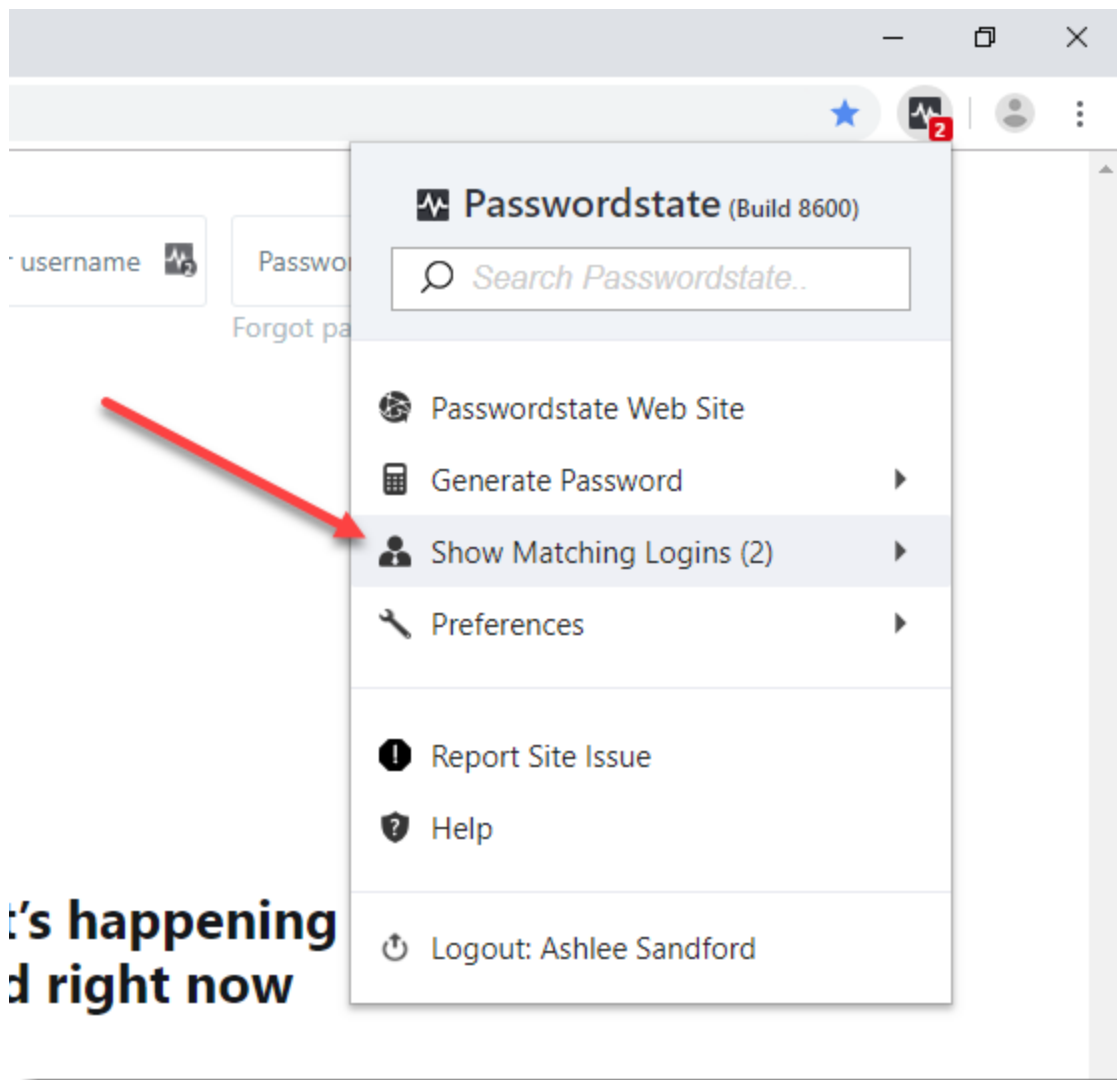
The screenshot shows a browser window with the Passwordstate extension interface. The main dialog is titled "Add Site to Passwordstate?". It features the IMDb logo and the URL "www.imdb.com". Below this, there is a "Password List" section with a dropdown menu currently showing "\Browser Extension Testing 1". The "Username" field contains "clickstudios.australia@gmail.com", the "Description" field contains "IMDb Sign-In", and the "Password" field is masked with dots and has a magnifying glass icon to toggle visibility. At the bottom of the dialog are three buttons: "Close", "Ignore", and "Save".

Auto-Filling Login Credentials

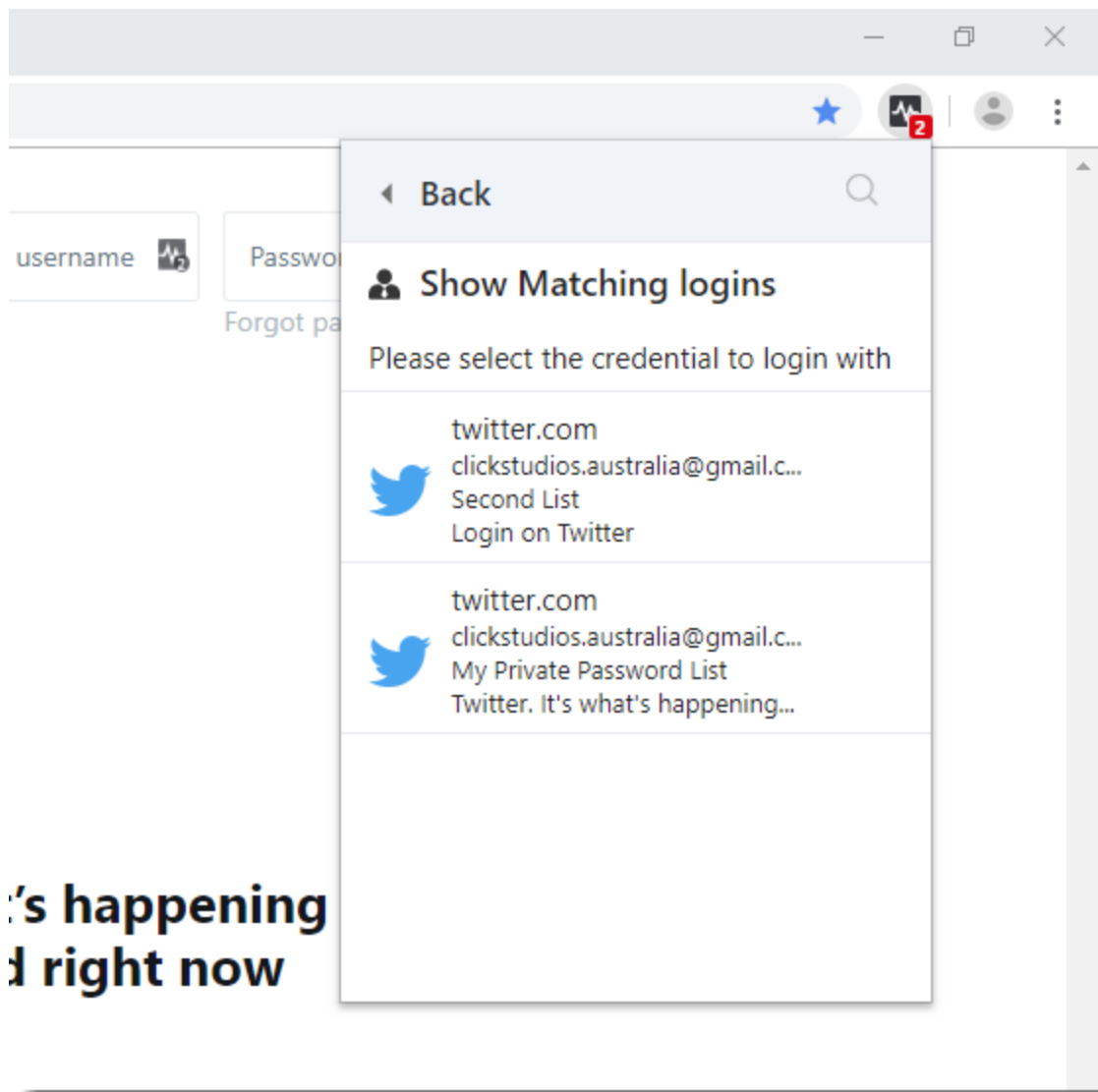
When you visit a website that you have a credential already saved for, the browser extension will display a number in red. The value of this number indicates how many credentials for that particular website you have saved in Passwordstate.



If you only have one saved login for the page, then the browser extension will automatically auto-fill that username and password for you. If you have multiple credentials saved, then you should click the browser extension icon, select "**Show Matching Logins**" and then choose the appropriate login to auto-fill:

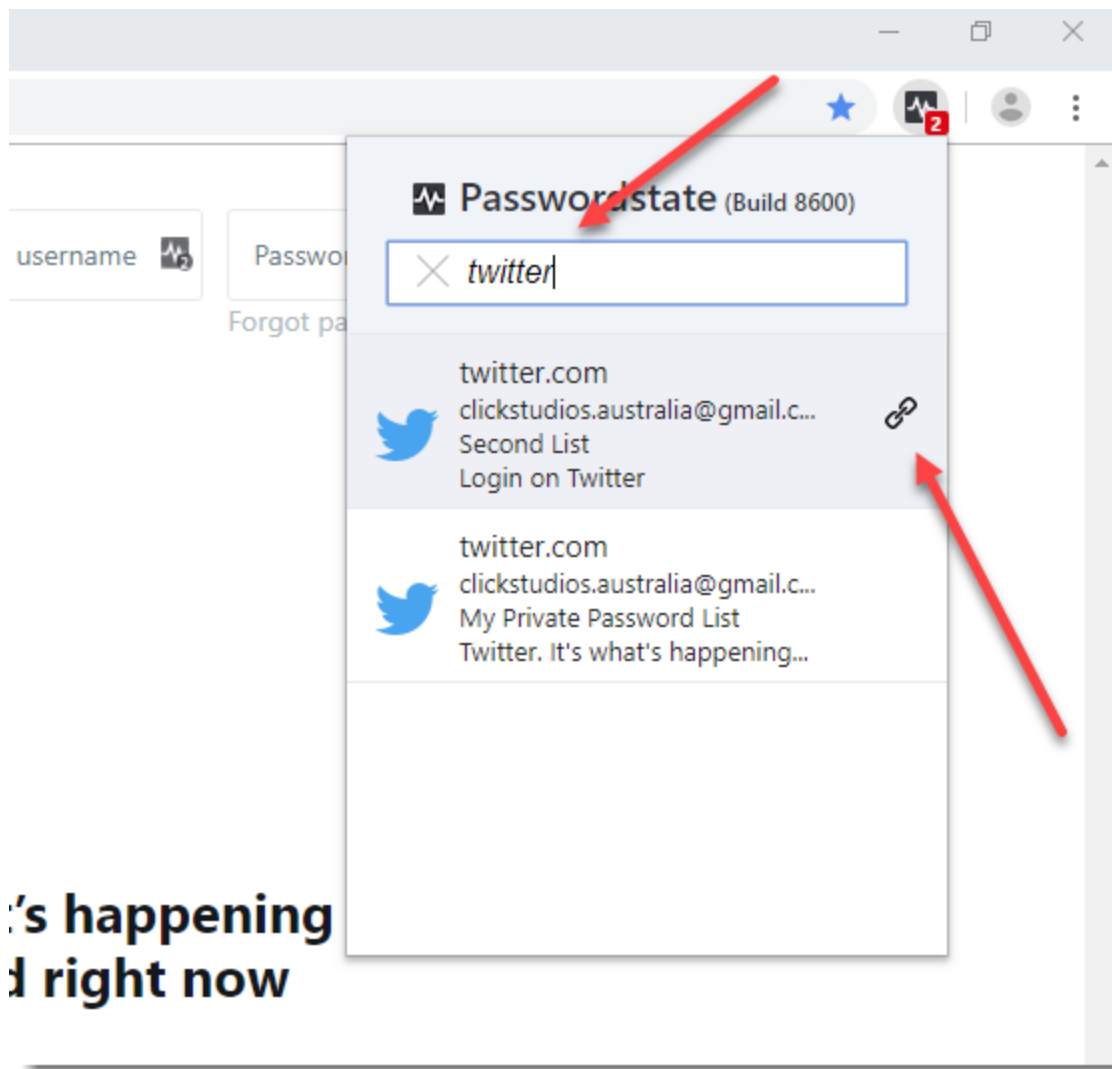


You'll notice each login you have saved for the site shows the **Username**, the **Password List** where it is stored, and also the **Description**. This will help you determine which credential you should select:



Using the Search Feature

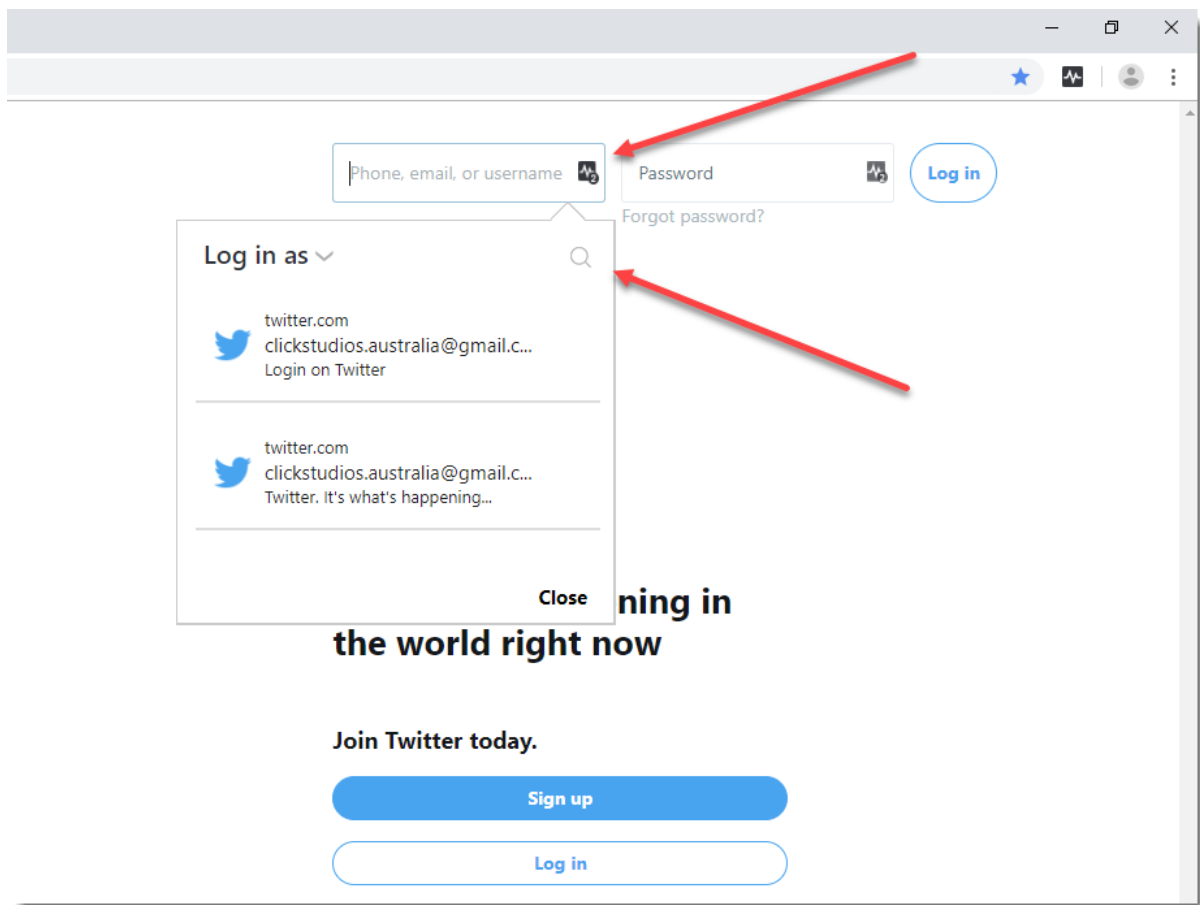
Another way to use the browser extension is to search for a website you have previously saved. When you find a credential via the search feature, you can either click directly on the credential itself, which will open the website in a new tab, or you can click the **"link"** icon which will open the password record for you directly in Passwordstate. This can be useful if you need to modify the password record in any way.



It's happening
right now

Icon Overlay

The **Icon Overlay** is displayed the **username** and **password** login fields on websites, and it behaves in the same way the main browser extension menu does. Clicking on the icon overlay will allow you to choose which credential you want to log in with, and it also has its own search feature to make finding saved credentials much easier:



Auditing

Using the Browser Extension also logs various audit activities into the Passwordstate database. The detail recorded is:

- Login Attempt failed (this is the browser extension authenticating to the main Passwordstate web site, not a login into a generic web site)
- Login Attempt succeeded
- Password Added
- Password Retrieved

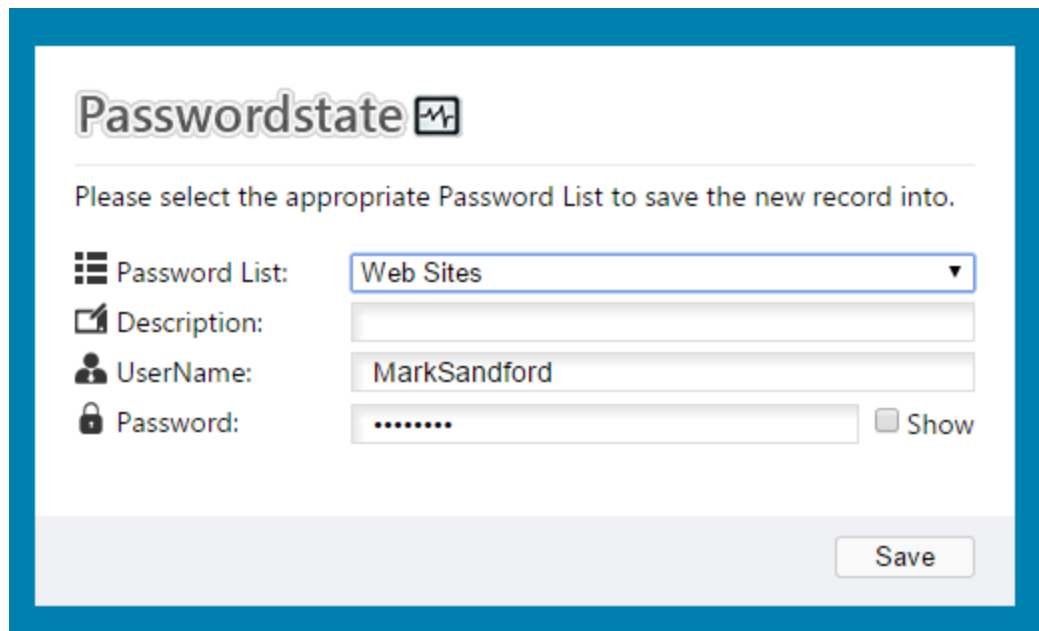
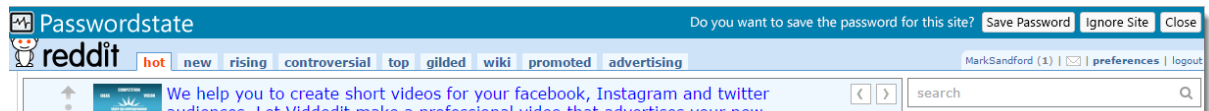
5 Browser Extension Usage - Legacy

This section of the manual applies to the following browser extensions:

 Microsoft Internet Explorer

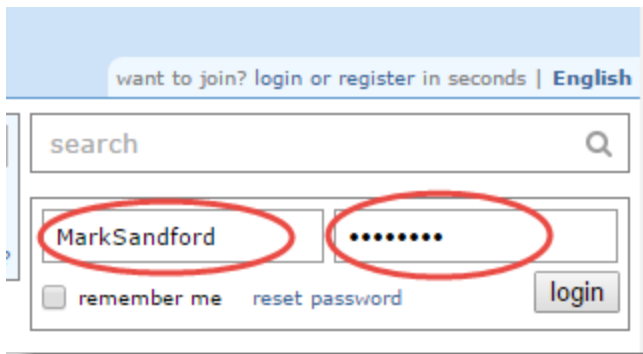
Saving New Login Credentials

When you login to a web site where your credentials have not been stored in Passwordstate, you will see a popup type toolbar on the screen after you have logged in. By clicking on the 'Save Password' button, it will give you the second screenshot below which allows you to pick which Password List to store the password in.



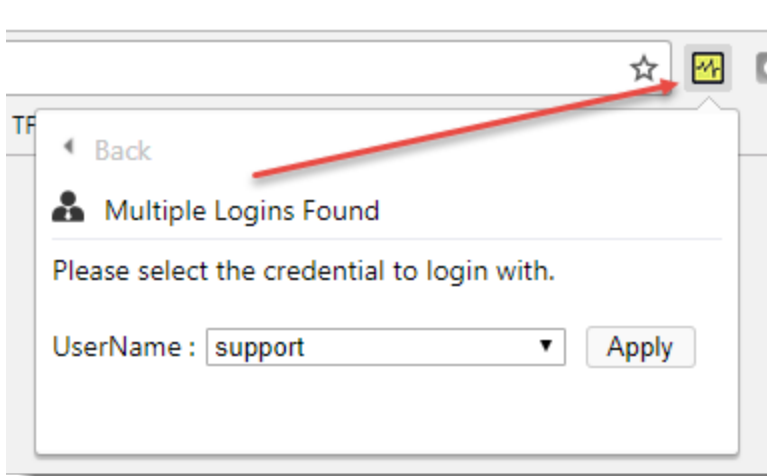
Auto-Fill Web Site Logins

When a login credentials has been saved into a Password List, then next time you visit the site and need to login, it will automatically auto-fill your credentials for you - like the screenshot below.

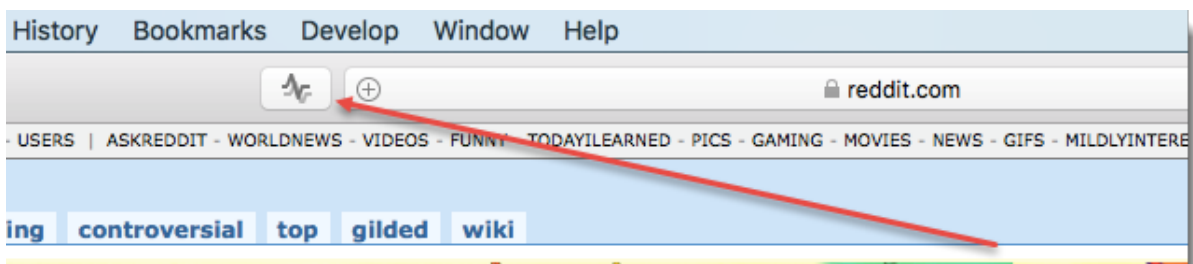


Duplicate Logins

It is possible there may be more than one login saved for a web site. If this is the case, the auto-fill will not occur, instead the icon will turn Yellow allowing you to click on it and select the login you wish to authenticate with.



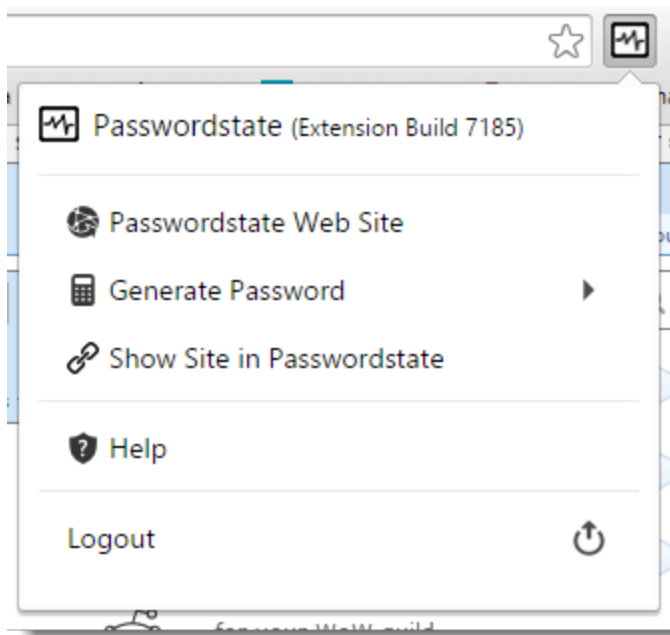
And because Safari does not support colours in their Extensions, you will instead see the following:



Browser Extension Main Menu

After initially specifying the 'Preferences' for the Browser Extension, you will see a screen similar to the screenshot below when clicking on the icon in the toolbar. From here, each of the menus do the following:

- My Passwordstate - opens up a new browser tab to your Passwordstate web site
- Generate Password - allows you to generate a new random password, based on your Password Generator settings in Passwordstate
- Show Site in Passwordstate - if the site you're visiting has it's credentials stored in Passwordstate, you will see this menu. By clicking on this menu item, it will take you to the Passwordstate web site, and open this record ready for editing
- Help - shows you the Browser Extension Manual
- Logout - clears the Preference settings for the extension (Note: on your Preferences screen in Passwordstate, you can specify various settings for automatically logging out of the browser extension. Your Passwordstate Security Administrator(s) can also specify these settings for all users)



Auditing

Using the Browser Extension also logs various audit activities into the Passwordstate database. The detail recorded is:

- Login Attempt failed (this is the browser extension authenticating to the Passwordstate API, not a login into a web site)
- Login Attempt succeeded
- Password Added
- Password Retrieved

6 Detection Issues

Due to the nature of the World Wide Web, it's nearly impossible to have 100% accuracy when trying to detect and save web site login credentials, due to the vast amount of different technologies and coding techniques used. As our Browser Extension matures, we will improve the detection rate though.

If when logging into a web site, and you don't experience the popup asking you to save your credentials into Passwordstate, then the Browser Extension is having issues detecting the form fields correctly, or possibly it's a timing issue when the page redirects occur.

If this is the case, it may still be possible to manually add the required details into Passwordstate, so that the auto-filling of credentials works. The following instructions should help you with this.

- You need to determine what the 'names' are for the form fields for your Username and Password on the site. This can be done by either looking at the source code of the page, or there are several Chrome Extensions available like 'Web Developer' which highlights the form elements for you. Using the 'Web Developer' extension, you will see a menu item called 'Display Form Details'. When you select this, you will see the highlight form names like the screenshot below. Document the two field names which are highlighted in this screenshot - obviously they will be named differently for every web site.



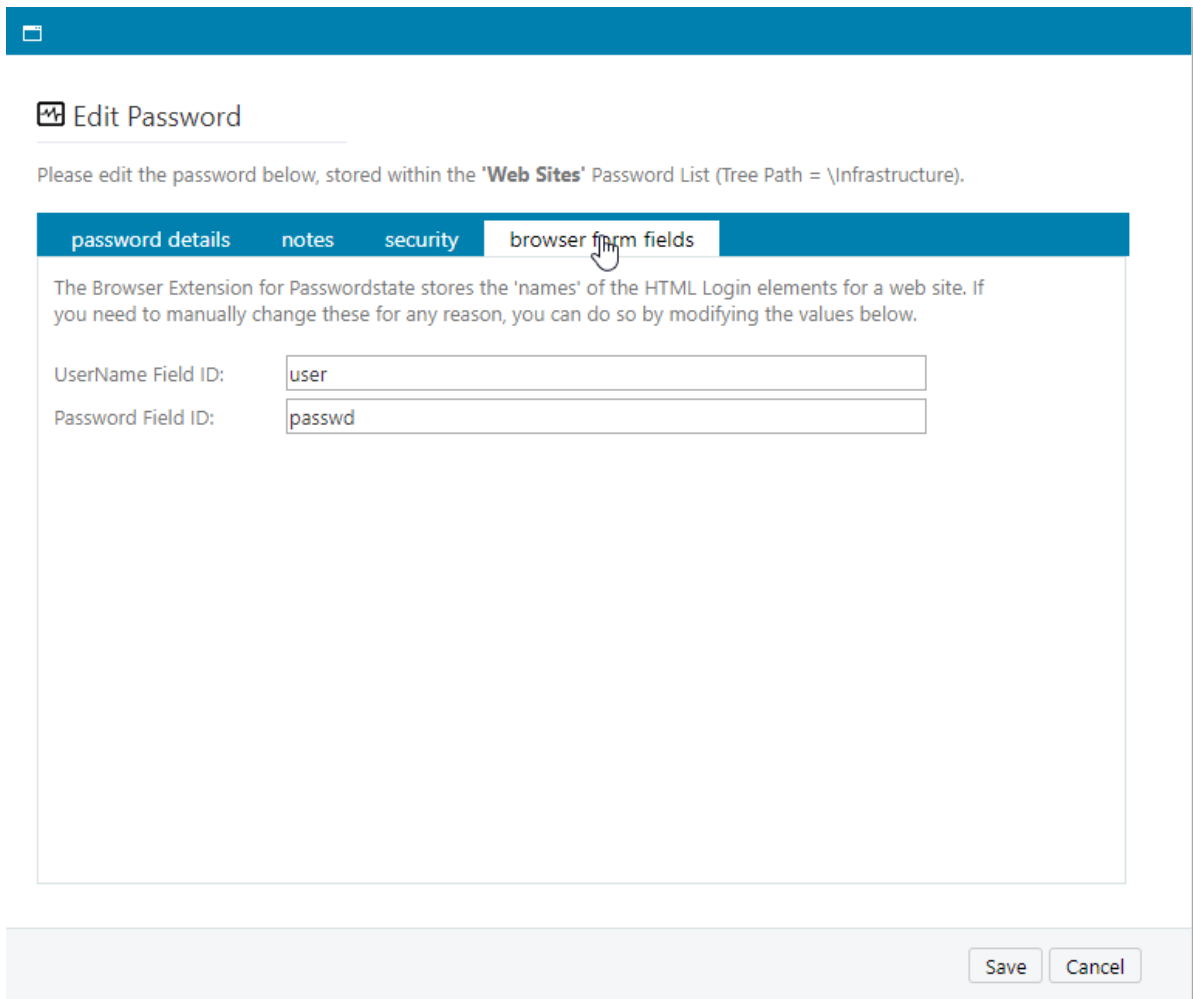
- Now create a new record within Passwordstate, specifying the appropriate details on the 'Password Details' tab. Once done, click on the 'Browser Form Fields' tab, and enter the name of the two form fields documented above, and save the record
- Now you need to close your browser (all tabs) and reopen it, so the extension can update data from the Passwordstate web site - this happens automatically when saving records from the Extension to Passwordstate, but is required if manually creating the records directly within Passwordstate


Add New Password

Add new password to '**Web Sites**' Password List (Tree Path = \).

| password details | notes | browser form fields |
|---|--|---------------------|
| Title * | reddit.com | |
| UserName | MarkSandford | |
| Description | | |
| URL | http://www.reddit.com | |
| Expiry Date | | |
| Password Export | <input checked="" type="checkbox"/> Allow this Password to be Exported | |
| Password Reset | <input type="checkbox"/> Password Enabled for Resets | |
| Password * | | |
| Confirm Password * | | |
| Password Strength | ★★★★☆ Compliance Strength ★★★★★ | |
| Strength Status: 1 symbol characters | | |
| <input checked="" type="checkbox"/> Compliance Mandatory <input checked="" type="checkbox"/> Prevent Bad Password Usage | | |

Save Save & Add Another Cancel



 Edit Password

Please edit the password below, stored within the '**Web Sites**' Password List (Tree Path = \Infrastructure).

password details notes security **browser form fields**

The Browser Extension for Passwordstate stores the 'names' of the HTML Login elements for a web site. If you need to manually change these for any reason, you can do so by modifying the values below.

UserName Field ID:

Password Field ID:

Save Cancel