



# **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, Firefox, and Internet Explorer.

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

|  |  |
|--|--|
| <a href="#">Installation</a>               | Explains how to install the Browser Extension, and configure for use   |
| <a href="#">Browser Extension Settings</a> | Explains the various settings for the Browser Extension  |
| <a href="#">Browser Extension Usage</a>    | Provides instructions for basic usage of the Browser Extension   |
| <a href="#">Detection Issues</a>           | 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.

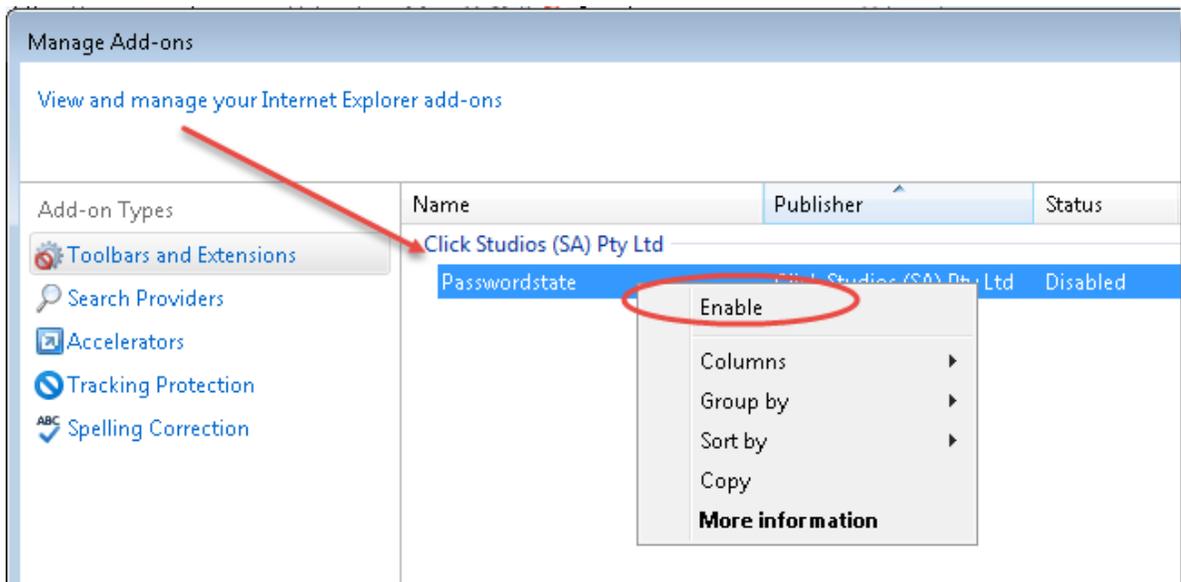
### Installing the Extension - Chrome

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/appojfilknpgkghkebigcdkmopdfcjhim>
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



## Installing the Extension - Internet Explorer

1. You can download the version of the IE extension from here - <http://www.clickstudios.com.au/downloads/PasswordstateIEExtension.msi>
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



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



## Installing the Extension - Firefox

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/>

- 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:



**Note:** In order to use this extension and save login credentials, you must have access to one or more Password Lists which are configured to use the 'URL' field.

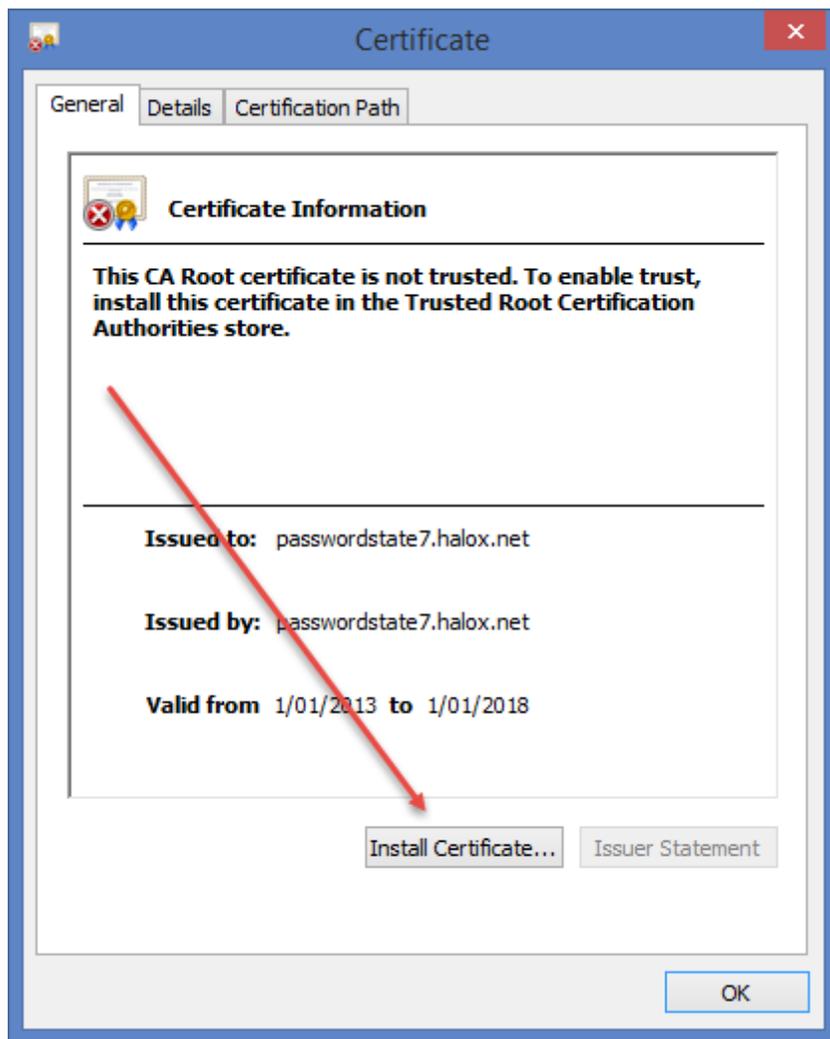
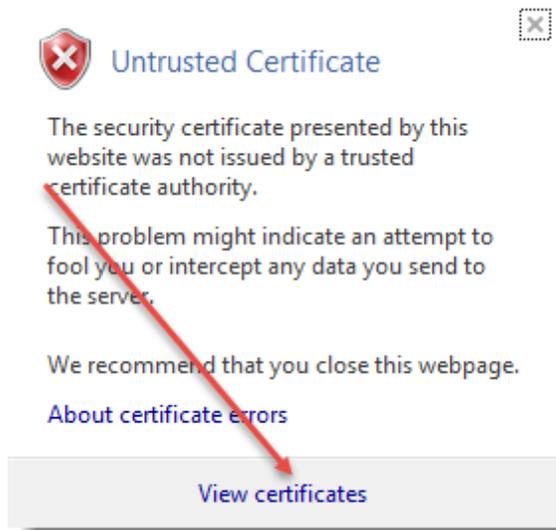
## Non-Trusted SSL Certificate Issue

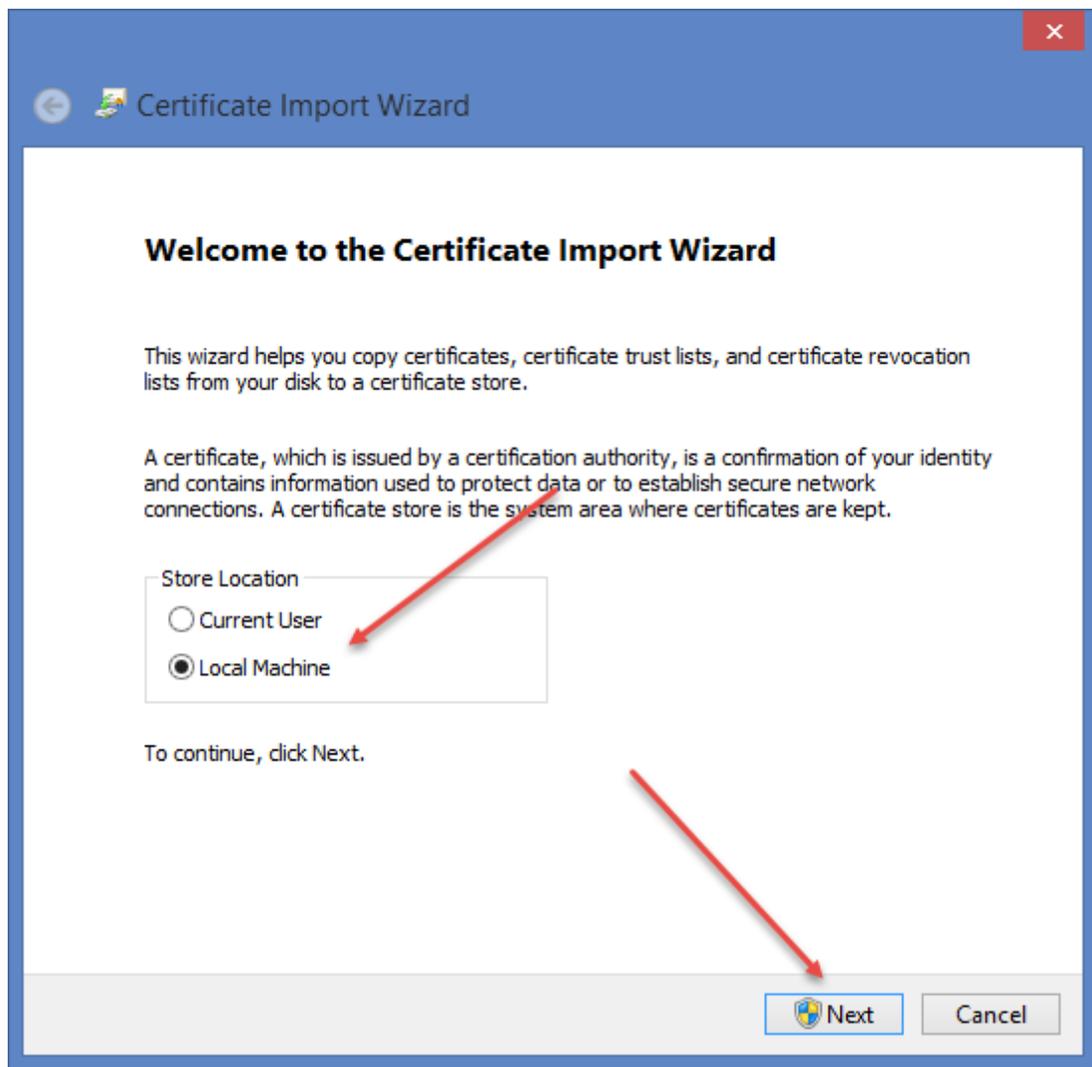
With the default install of Passwordstate, a self-signed SSL Certificate is installed in Internet Information Services (IIS) and assigned to the Passwordstate web site. All self-signed SSL certificates are non trusted by browsers, and this can cause issues with the Passwordstate Browser Extension. To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

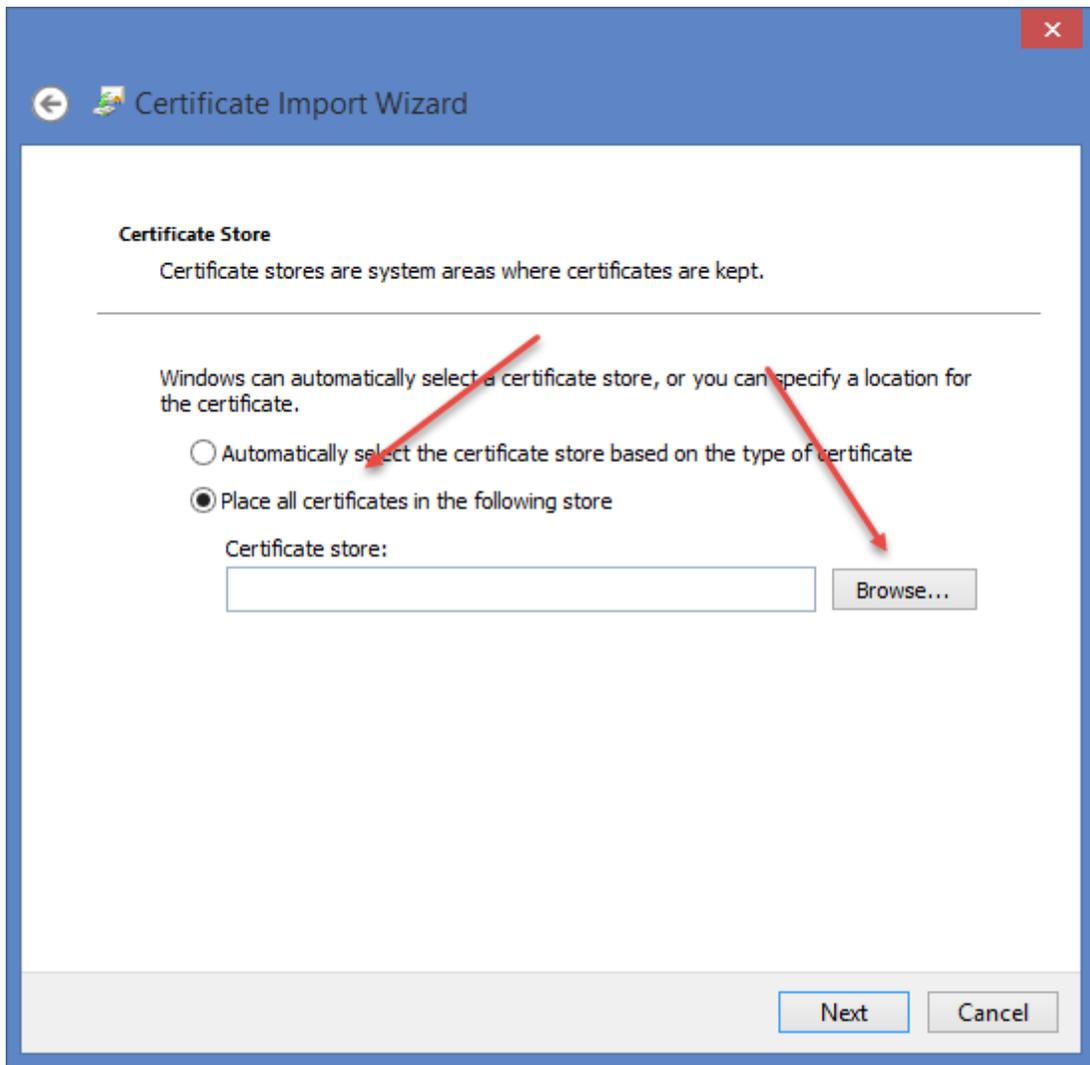
1. Install your own trusted SSL certificate on your web server, and bind it to the Passwordstate web site. This is the most secure option as the certificate is trusted by all browsers. You can either purchase the certificate from one of the public certificate authorities, or if you have your own internal 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 for Google Chrome.

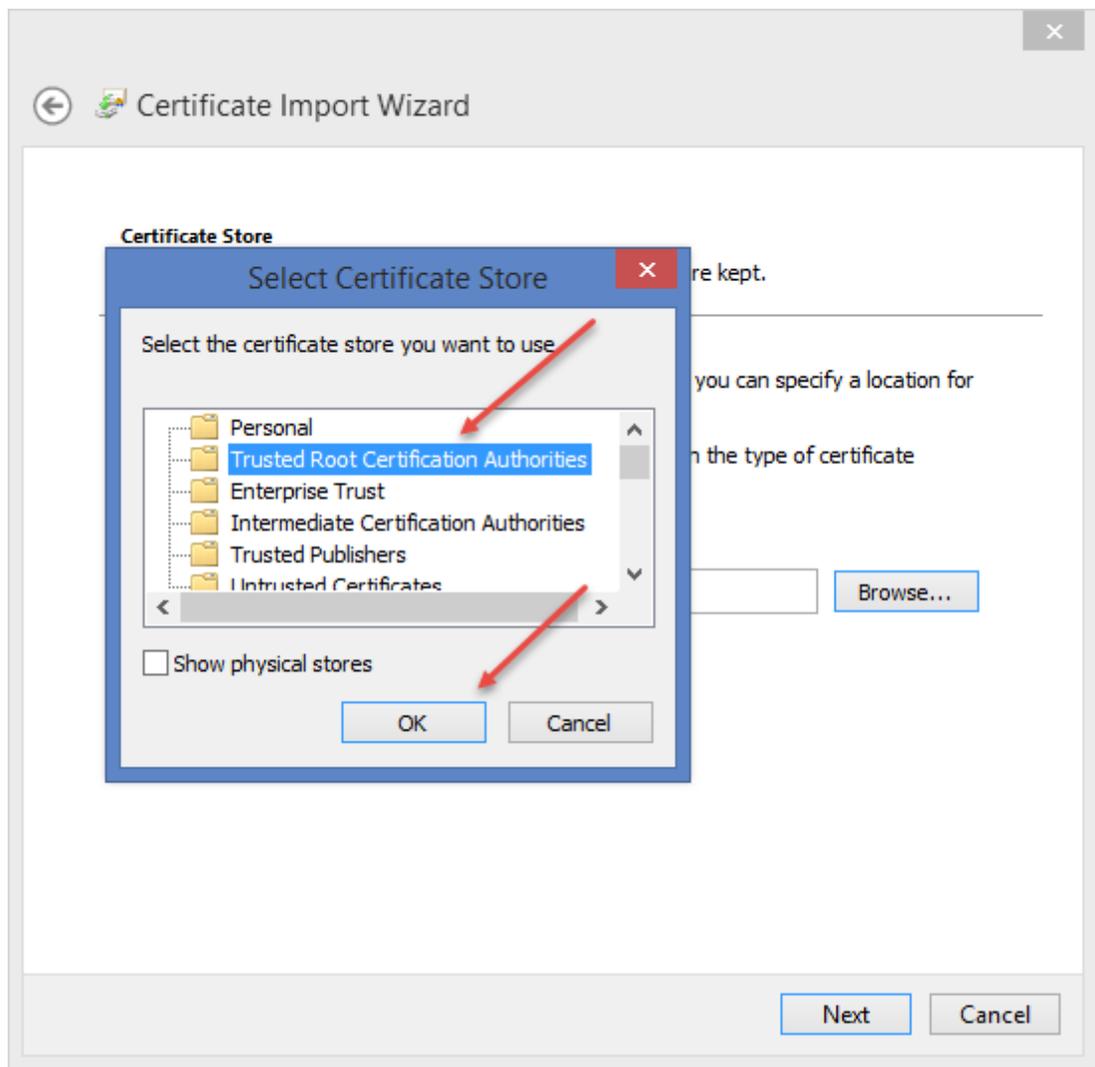
Browse to the site in Internet Explorer, and click on 'Certificate error', and then follow the screenshots below to trust the certificate.

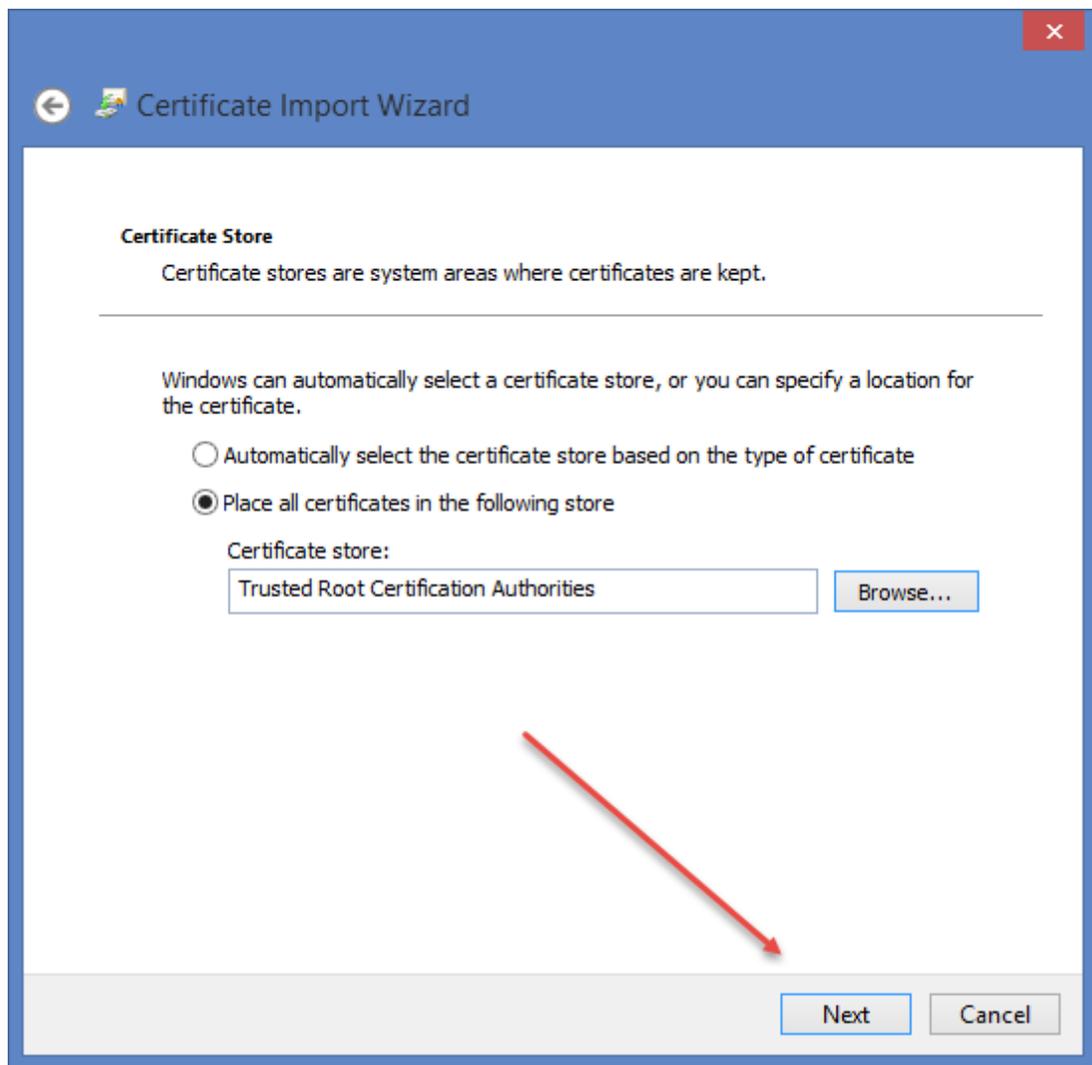


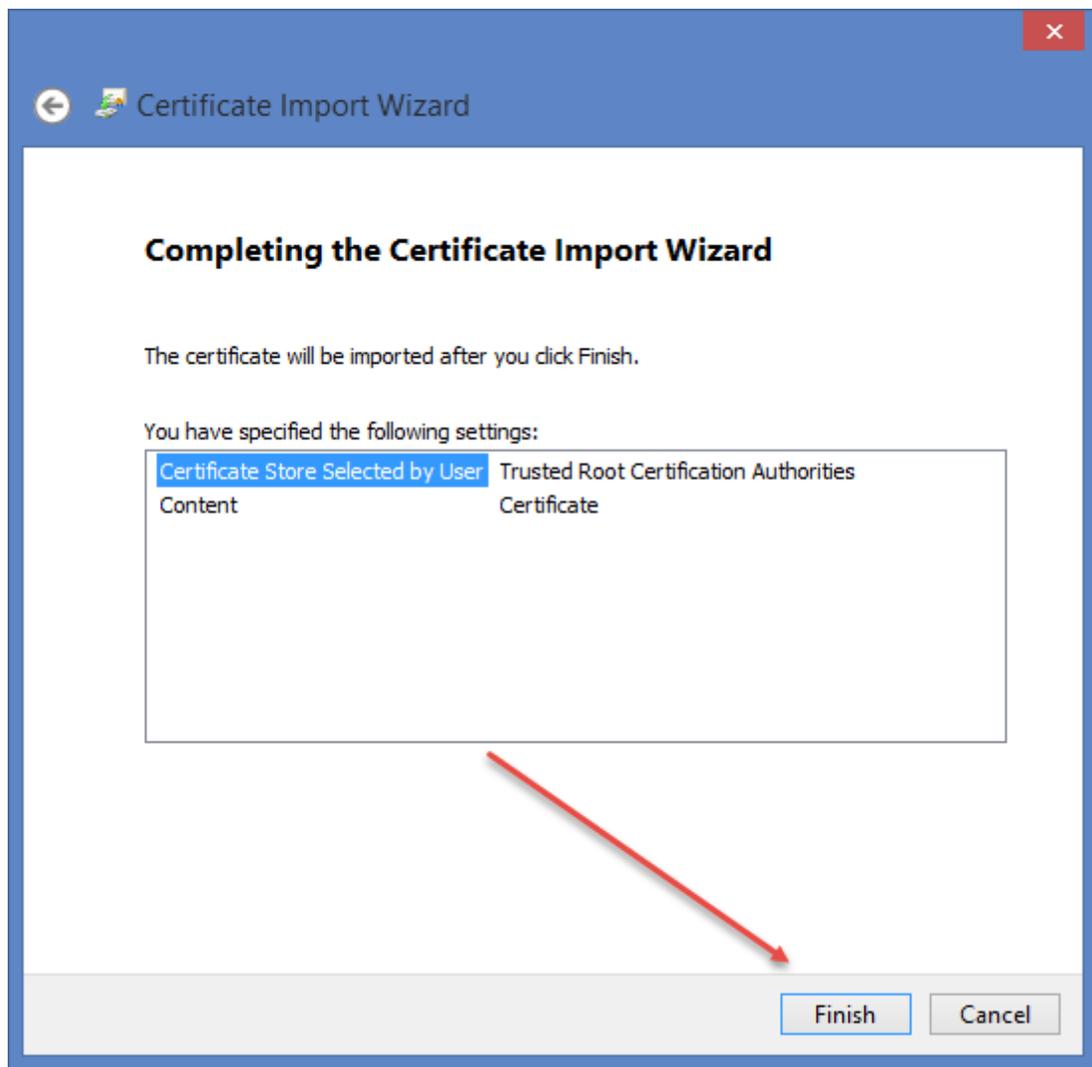












## Secure Cookies, Internet Explorer, and FQDN URL for Passwordstate

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.

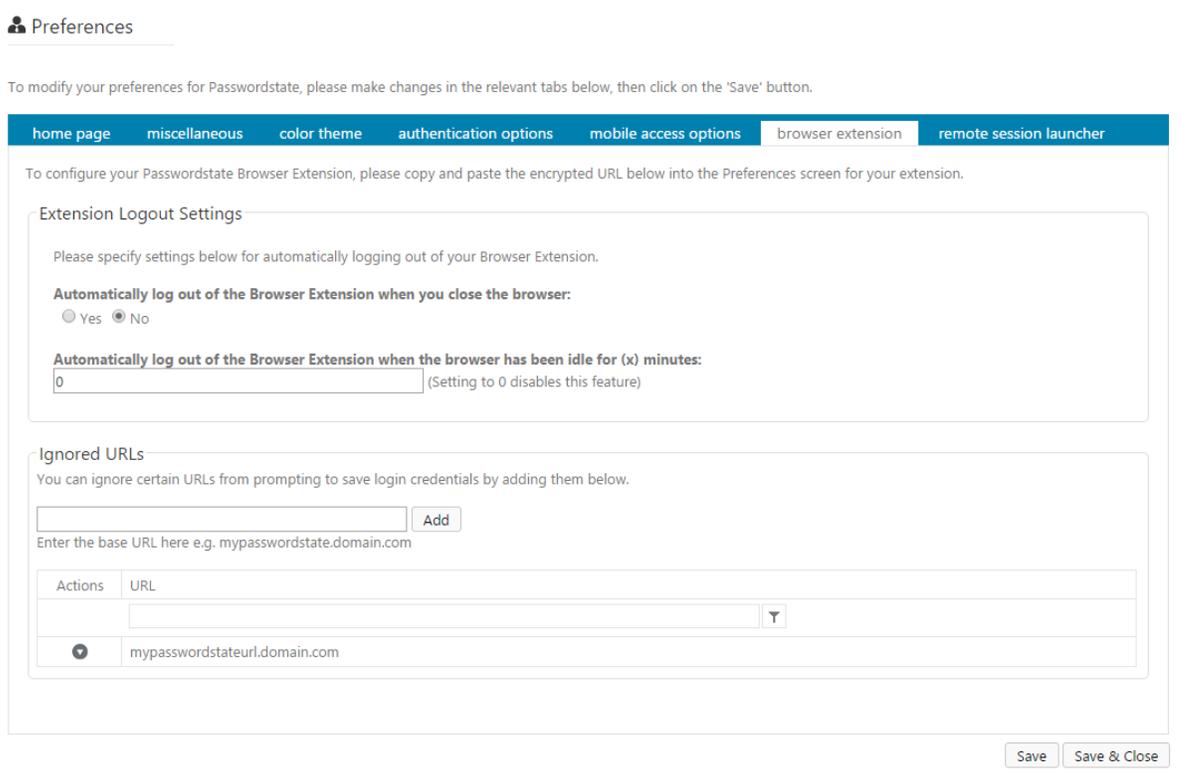
## 3 Browser Extension Settings

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 Beta version



**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="checkbox"/>            | <input type="text"/>          |
| <input checked="" type="checkbox"/> | mypasswordstateurl.domain.com |

### 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          |
|---------|--------------|
| ▼       | clickstudios |

## Browser Extension Settings

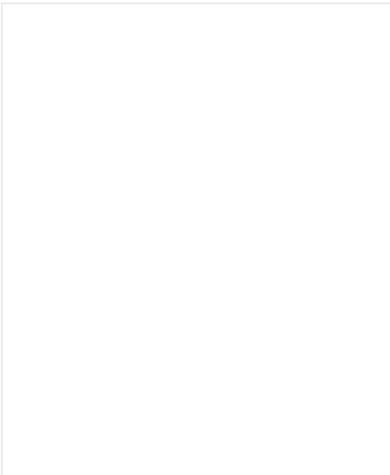
Use each of the appropriate Tabs below to indicate TimeOut Settings, which URLs are ignored by the Browser Extension, which users are allowed to

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

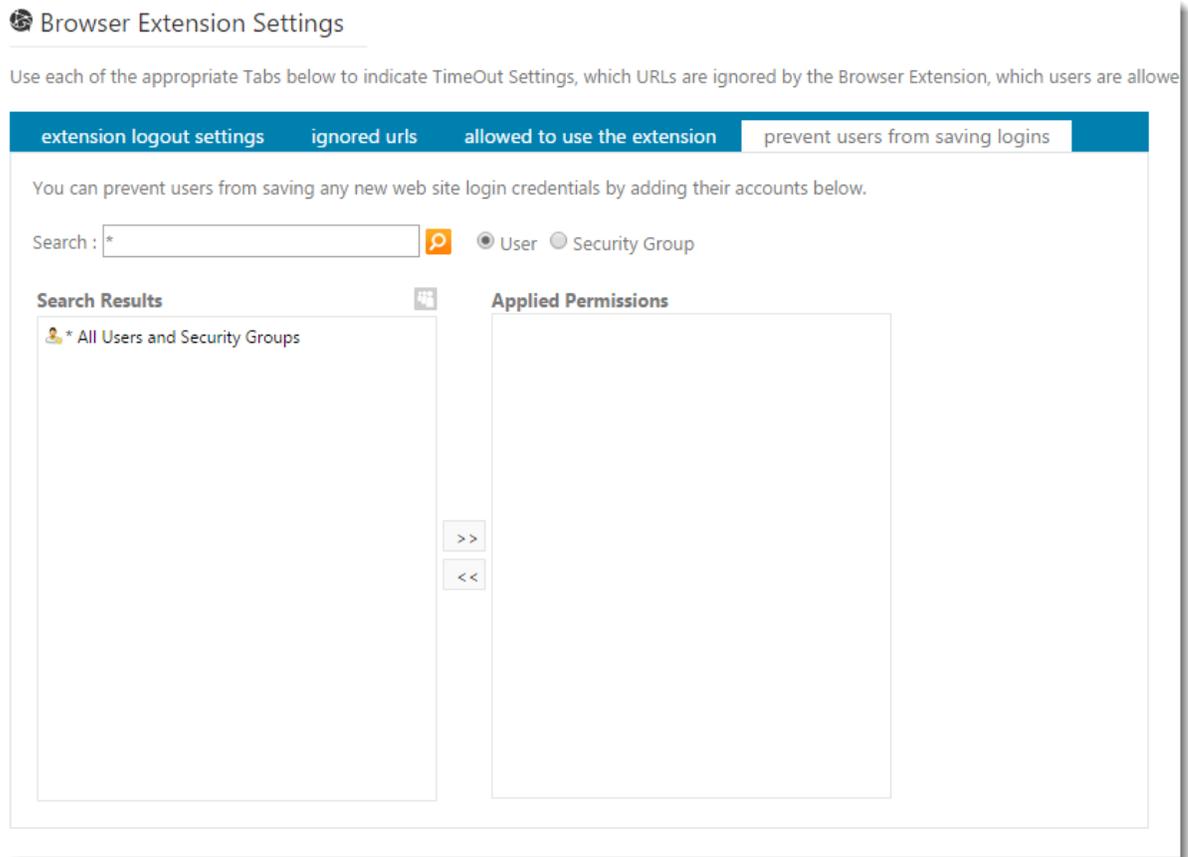
### Search Results



### Applied Permissions

 \* All Users and Security Groups

>>  
<<



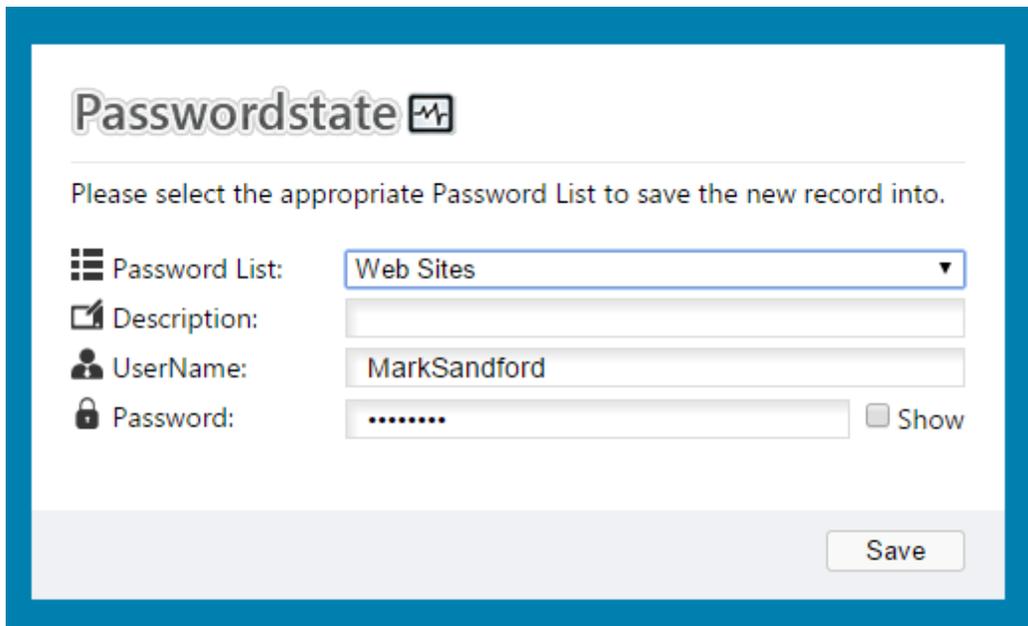
## 4 Browser Extension Usage

Below are some of the main features for the Browser Extension.

### 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.





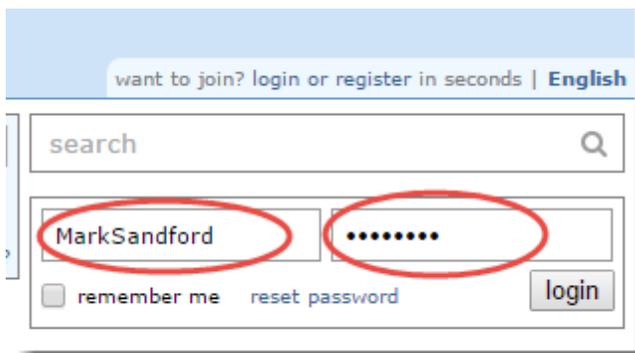
The screenshot shows the Passwordstate web interface. At the top, the logo "Passwordstate" is displayed with a small icon. Below the logo, a message reads: "Please select the appropriate Password List to save the new record into." The form contains the following fields:

- Password List:** A dropdown menu with "Web Sites" selected.
- Description:** An empty text input field.
- UserName:** A text input field containing "MarkSandford".
- Password:** A password input field with masked characters "....." and a "Show" checkbox to its right.

A "Save" button is located at the bottom right of the form.

## 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.



The screenshot shows a web login form. At the top, there is a navigation bar with the text "want to join? login or register in seconds | English". Below this is a search bar with the placeholder text "search". The main login form contains the following elements:

- A text input field containing "MarkSandford", which is circled in red.
- A password input field with masked characters ".....", also circled in red.
- A "remember me" checkbox.
- A "reset password" link.
- A "login" button.

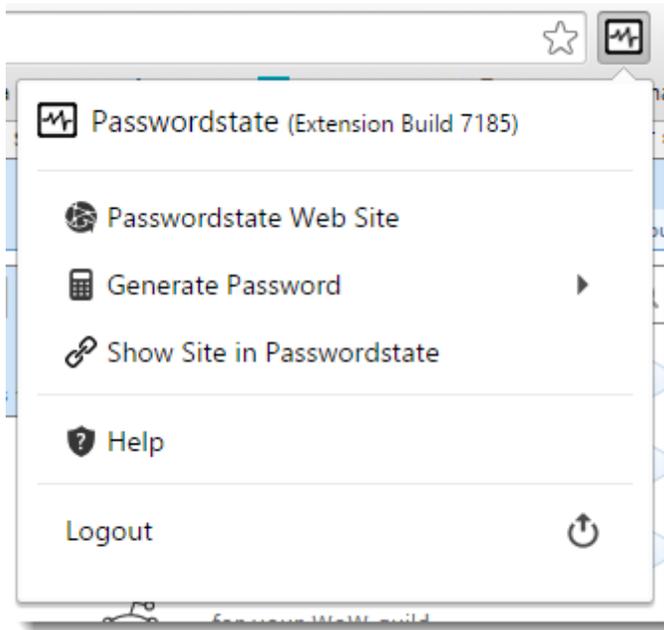
## Browser Extension Main Menu

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

## 5 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 *  | <input type="text" value="reddit.com"/>   |                     |
| UserName   | <input style="float: right; text-align: right; padding-right: 10px;" type="text" value="MarkSandford"/> |                     |
| Description  | <input type="text"/>  |                     |
| URL  | <input type="text" value="http://www.reddit.com"/>  |                     |
| Expiry Date  | <input type="text"/>  |                     |
| Password Export  | <input checked="" type="checkbox"/> Allow this Password to be Exported                                  |                     |
| Password Reset   | <input type="checkbox"/> Password Enabled for Resets  |                     |
| Password *   | <input style="float: right; text-align: right; padding-right: 10px;" type="password" value="....."/>    |                     |
| Confirm Password *   | <input type="password" value="....."/>  |                     |
| Password Strength  | ★★★★☆ Compliance Strength ★★★★★☆  |                     |
| <span style="color: orange;">Strength Status: 1 symbol characters</span>   |   |                     |
| <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span style="color: red; font-weight: bold;">✖</span> Compliance Mandatory                             <span style="color: red; font-weight: bold;">✖</span> Prevent Bad Password Usage                         </div> |   |                     |

Save
Save & Add Another
Cancel

### Add New Password

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

**password details**   **notes**   **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 Name:

Password Field Name: