Clango Retriever Deployment Guide



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Prepared by:



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1 Overview

This guide provides instructions for deploying Clango Retriever for your organization. The deployment consists of these main steps:

- 1. Request and download the Clango Retriever license and installation files
- 2. Install license files
- 3. Configure access
- 4. Install browser extension on end users' workstations
- 5. Configure browser extension on end users' workstations

2 Download License Files

To obtain a download link for the Clango Retriever license files, fill out and submit the Clango Retriever request form located here: https://clango.com/request-download-clango-retriever/

The download link will contain a trial license and, if requested, the XPI file for installing in Firefox.

3 License Installation

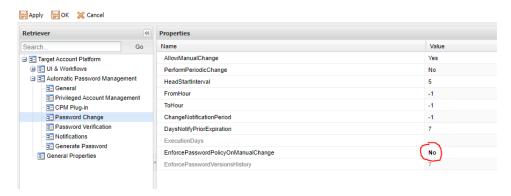
Clango will provide three files related to the license: a license key, a company public key, and a client private key. All three must be installed in the vault for end users to use the extension. The keys will be installed by creating a new safe with three accounts, one for each key, set up as detailed below.

- 1. In PVWA, create a new safe called Clango-Retriever.
 - a. Leave Enable Object Level Access Control unchecked.
 - b. For Assigned to CPM, choose [None].

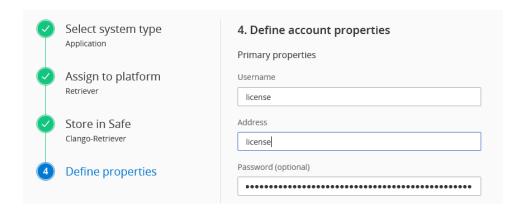
Add Safe

Safe name:	Clango-Retriever
Description:	
	<u> </u>
	Enable Object Level Access Control
Saved accounts:	Save the last 5 account versions
	Save account versions from the last 7 days
Assigned to CPM:	[None]
Save Cancel	

- 2. Create a new account.
 - a. Use **Application** for the system type.
 - b. Select a platform that does not enforce a password policy. If none exists, create one.
 - i. Ensure that the AllowedSafes regular expression under Automatic
 Password Management > General for the platform will validate Clango-Retriever (e.g., .* or Clango.*).
 - ii. To configure a platform to not enforce a password policy, in the Administration > Platform Management module, modify the EnforcePasswordPolicyOnManualChange property to No under Automatic Password Management > Password Change for the platform.

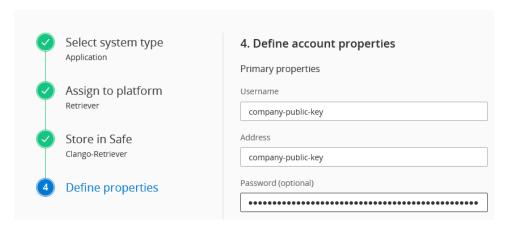


- c. Choose the Clango-Retriever safe.
- d. Enter "license" for both username and address.
- e. For the password field, enter the contents of the provided file license.properties.



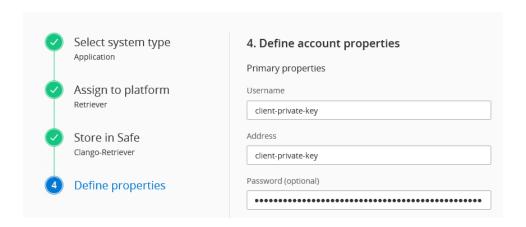
Create another new account.

- a. Use **Application** for the system type.
- b. Select the same platform you chose in step 2.
- c. Choose the Clango-Retriever safe.
- d. Enter "company-public-key" for both username and address.
- e. For the password field, enter the contents of the provided file companypublic.pub.



4. Create another new account.

- a. Use Application for the system type.
- b. Select the same platform you chose in step 2.
- c. Choose the Clango-Retriever safe.
- d. Enter "client-private-key" for both username and address.
- e. For the password field, enter the contents of the provided file client-private.key.



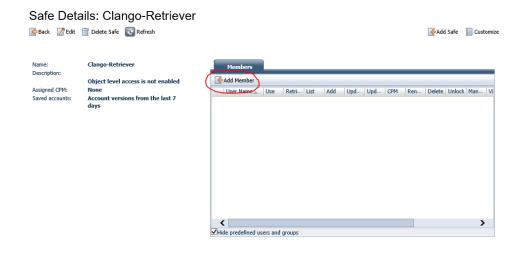
5. Verify you have added the license, client-private-key, and client-public-key accounts:

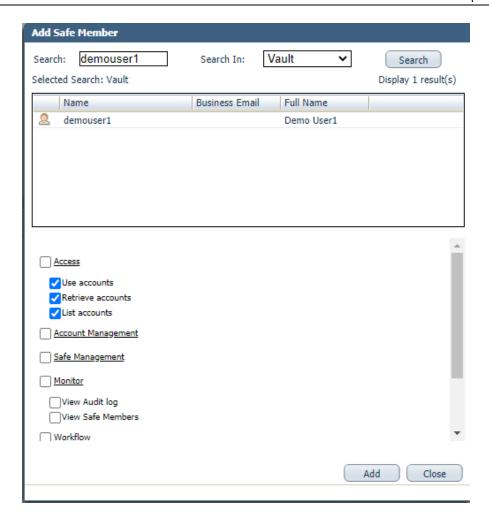


4 Configure Access

4.1 Configure Users

Users of Retriever must be granted access to the **Clango-Retriever** safe in PVWA with the **Use Accounts**, **Retrieve Accounts** and **List Accounts** permissions granted.





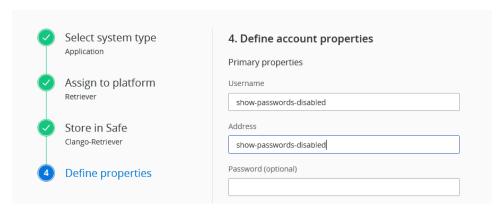
4.2 Configure Password Visibility

If your organization chooses to disable displaying the retrieved password in the Retriever popup, an additional account must be created.

Note: The password is still accessible to an end user when it is retrieved and placed in the password input on the HTML form.

1. Create a new account.

- a. Use **Application** for the system type.
- b. Select the same platform you chose in License Installation step 2.
- c. Choose the **Clango-Retriever** safe.
- d. Enter "show-passwords-disabled" for both username and address.
- e. For the password field, leave blank.



4.3 Configure Search Properties

If your organization uses Business Users, you may need to update the search properties to include fields found on Business User accounts.

- 1. In PVWA, click Administration > Configuration Options > Options > Search Properties.
- 2. Right-click **Search Properties**, and then click **Add Property**. Add the following properties: itemname, url, tags, and notes.

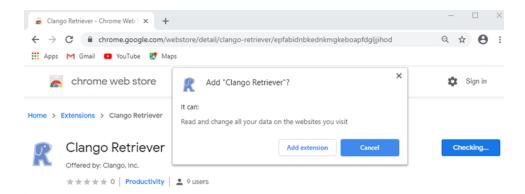
5 Install Retriever on User Workstations

The browser extension can be installed on Google Chrome, Microsoft Edge, and Mozilla Firefox. The extension can be installed via the Chrome Web Store in both Chrome and Edge. In Firefox, end users need access to the XPI file provided by Clango.

5.1 Manual Installation

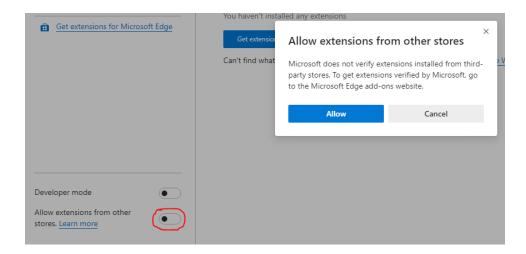
5.1.1 Chrome

- 1. Navigate to https://chrome.google.com/webstore/detail/clango-retriever/epfabidnbkednkmgkeboapfdgljjihod.
- 2. Click Add to Chrome.
- 3. Click Add extension in the confirmation popup.

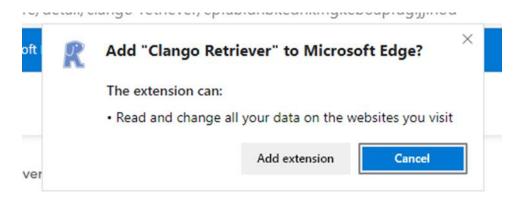


5.1.2 Edge

- 1. Navigate to edge://extensions/
- 2. In the menu on the left, enable **Allow extensions from other stores** and click **Allow** in the confirmation popup.

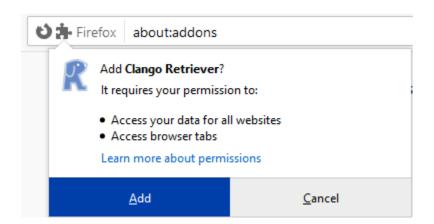


- 3. Navigate to https://chrome.google.com/webstore/detail/clango-retriever/epfabidnbkednkmgkeboapfdgljjihod.
- 4. Click Add to Chrome.
- 5. Click **Add extension** in the confirmation popup.



5.1.3 Firefox

- 1. In Firefox, open the Firefox menu button and click Add-ons.
- 2. From the settings (cog) dropdown menu, choose **Install Add-on From File**.
- 3. In the file dialog, browse to and open the XPI file provided.
- 4. Click **Add** in the confirmation popup.



5.2 Automatic Installation

5.2.1 Chrome

- 1. Download and install the Chrome AMDX files into your Group Policy.
 - a. Download Bundle 64 bit (GoogleChromeEnterpriseBundle64.zip) from https://support.google.com/chrome/a/answer/7650032?hl=en.
- 2. On one of your Domain Controllers, open Group Policy Management Editor.
- 3. Select the container where you want the policy to apply.
 - a. Edit the policy.
 - Find the "Extensions" container under: "Computer Configuration / Administrative Templates / Google / Google Chrome / Extensions".
 - c. If you want users to be able to disable or remove Retriever, skip to step h.
 - d. Enable Configure the list of force-installed apps and extensions.
 - e. Select the **Show** box under **Options**:

- f. In the Value field, add: epfabidnbkednkmgkeboapfdgljjihod;https://clients2.google.com/service/upd ate2/crx
- g. Skip to step k.
- h. Enable Extension management settings.
- i. Select the **Show** box under **Options**:
- j. In the Value field, add:

{"epfabidnbkednkmgkeboapfdgljjihod":{"installation_mode":"normal_installed","update_url":"https://clients2.google.com/service/update2/crx"}}

Note: Make sure no returns are embedded within the string.

- k. Choose **OK**.
- 4. It will install after the next Group Policy refresh and after Chrome has been closed and opened. To get it to install faster: at the user's workstation, run from the command prompt: gpupdate /force.
 - a. Wait a few minutes.
 - b. Close Chrome, then open it again, and it should be there.

5.2.2 Edge

- 1. Download and install Microsoft Edge Administrative Template.
 - a. Use the Get Policy Files link on the landing page at https://www.microsoft.com/en-us/edge/business/download.
- 2. On one of your Domain Controllers, open Group Policy Management Editor.
- 3. Select the container where you want the policy to apply.
 - a. Edit the policy.
 - b. Find the "Extensions" container under "Computer Configuration / Administrative Templates / Microsoft Edge / Extensions".
 - c. If you want users to be able to disable or remove Retriever, skip to step h.
 - d. Enable Control which extensions are installed silently.
 - e. Select the **Show** box under **Options**:
 - f. In the **Value** field, add: epfabidnbkednkmgkeboapfdgljjihod;https://clients2.google.com/service/upd ate2/crx
 - g. Skip to step k.
 - h. Enable Extension management settings.
 - i. Select the **Show** box under **Options**:
 - j. In the **Value** field, add:

{"epfabidnbkednkmgkeboapfdgljjihod":{"installation_mode":"normal_installed","update url":"https://clients2.google.com/service/update2/crx"}}

Note: Make sure no returns are embedded within the string.

- k. Choose OK.
- 4. It will install after the next Group Policy refresh and after Edge has been closed and opened. To get it to install faster: at the user's workstation, run from the command prompt: gpupdate /force
 - a. Wait a few minutes.
 - b. Close Edge, then open it again, and it should be there.

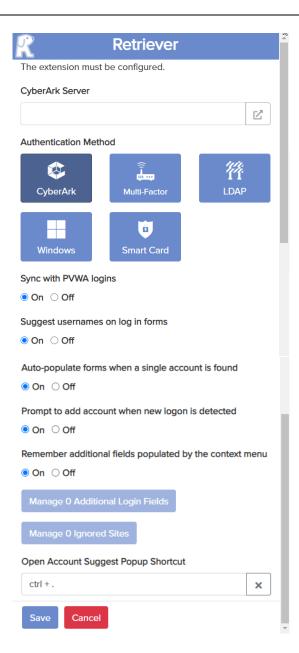
5.2.3 Firefox

- 1. Download and install Firefox Administrative Template.
 - a. Located at https://github.com/mozilla/policy-templates/releases.
- 2. Put the Retriever XPI in a place where everyone has read access. For example, if the H drive is accessible to all target users, the path may look something like this: H:\Folder\FileName.xpi
- 3. On one of your Domain Controllers, open **Group Policy Management Editor**.
- 4. Select the container where you want the policy to apply.
 - a. Edit the policy.
 - b. Find the "Extensions" container under "Computer Configuration / Administrative Templates / Firefox / Extensions".
 - c. Enable Control which extensions are installed silently.
 - d. Select the **Show** box under **Options**:
 - e. Add the full network path to the XPI file (e.g., //path/to/file.xpi) to the **Value** field and choose **OK**.
 - f. If you want users to be able to disable or remove Retriever, skip to step 5.
 - g. Enable Prevent extensions from being disabled or removed.
 - h. Select the **Show** box under **Options**:
 - i. Add retreiver@clango.com to the **Value** field and choose **OK**.
- 5. It will install after the next Group Policy refresh and after Firefox has been closed and opened. To get it to install faster: at the user's workstation, run from the command prompt: gpupdate /force
 - a. Wait a few minutes.
 - b. Close Firefox, then open it again, and it should be there.

6 Configure Retriever on User Workstations

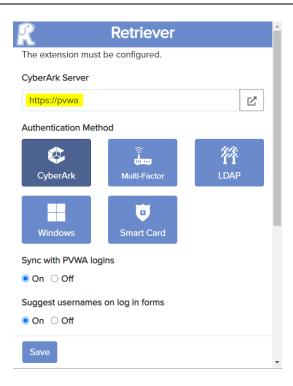
Each user will have to manually configure Retriever after it is installed.

- 1. In the user's browser, click the Retriever icon.
- You will see the **Settings** page, as follows:



3. In the CyberArk Server input, enter the URL for the PVWA server without the "PasswordVault" portion, e.g., https://pvwa/passwordVault.

https://pvwa/passwordVault.



- 4. Select the authentication method that users usually use for logging into PVWA.
- 5. Click **Save**.
- 6. Confirm that the configuration is complete by logging in to Retriever using the same credentials a user would use with PVWA.