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CLI Authentication Challenges



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The August 2021 release of Bitwarden (**2021-09-21**) introduced Captcha requirements to increase security against bot traffic. On the CLI, Captcha challenges are substituted with authentication challenges that can validated using your account's personal API key client_secret.

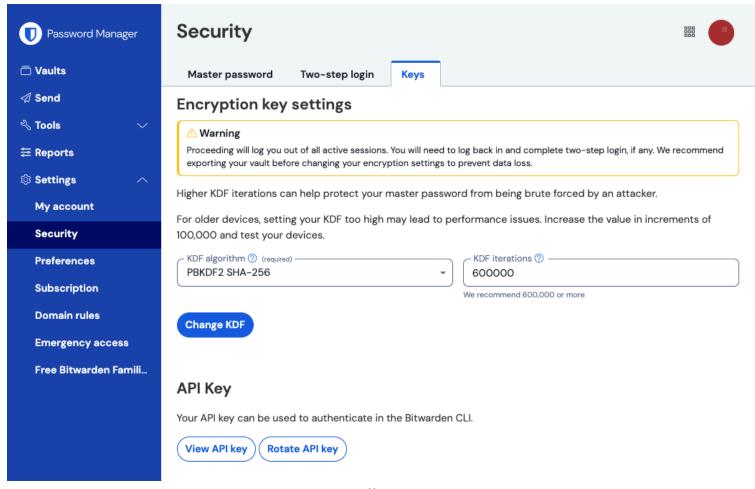
∏ Tip

For automated workflows or for providing access to an external application, we recommend using the bw login --apikey method. This method follows a more predictable authentication flow and revoking an application or machine's access can be achieved by rotating the API key.

Get your personal API key

To get your personal API key:

1. In the Bitwarden web app, navigate to **Settings** → **Security** → **Keys**:





- 2. Select the View API key button and enter your master password to validate access.
- 3. From the API key dialog box, copy the client_secret: value, which is a random string like efrbgT9C6BogEfXi5pZc48XyJjfpR).

Answering challenges

Depending on your preferences, you can save an environment variable to automatically pass authentication challenges or manually enter your client_secret whenever a challenge is made:

Answer challenges with an environment variable

Authentication challenges will look for a non-empty environment variable BW_CLIENTSECRET before prompting you to enter one manually. Saving this variable with the retrieved client_secret value will allow you to automatically pass authentication challenges. To save this environment variable:

∆ **≰** Bash

Bash

export BW_CLIENTSECRET="client_secret"

PowerShell

Bash

env:BW_CLIENTSECRET="client_secret"

△ Warning

If your <u>client_secret</u> is incorrect, you will receive an error. In most cases, this is because you have rotated your API key since saving the variable. Use the above steps to retrieve the correct value.

Answer challenges manually

When an authentication challenge is made and no BW_CLIENTSECRET value is found, you will be prompted to manually enter your client_secret value:



```
[ user@users-MacBook-Pro / % bw login
[? Email address: myemailaddress@me.com
[? Master password: [hidden]
[? Additional authentication required.
[API key client_secret: apikey_clientsecret
[? Two-step login method: Authenticator App
[? Two-step login code: 340450
You are logged in!

To unlock your vault, set your session key to the `BW_SESSION` environment variable. ex:
$ export BW_SESSION=""""
> $env:BW_SESSION=""""

You can also pass the session key to any command with the `--session` option. ex:
$ bw list items --session
```

Login Prompt with Auth Challenge

△ Warning

If your client_secret is incorrect, you will receive an error. In most cases, this is because you have rotated your API key since saving the variable. Use the above steps to retrieve the correct value.