### PASSWORD MANAGER > DEVELOPER TOOLS

# CLI Authentication Challenges

View in the help center: https://bitwarden.com/help/cli-auth-challenges/

## **U bit**warden

### **CLI Authentication Challenges**

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	v → Kevs
•••		Dictionation	mos app	,		 ,,.

Password Manager	Security ····					
🗇 Vaults	Master password Two-step login Keys					
⊲ Send	Encryption key settings					
🖏 Tools 🛛 🗸 🗸	▲ Warning					
<b>≑</b> Reports	Proceeding will log you out of all active sessions. You will need to log back in and complete two-step login, if any. We recommend exporting your vault before changing your encryption settings to prevent data loss.					
🕸 Settings 🛛 🔿						
My account	Higher KDF iterations can help protect your master password from being brute forced by an attacker. For older devices, setting your KDF too high may lead to performance issues. Increase the value in increments of 100,000 and test your devices.					
Security						
Preferences	KDF algorithm (?) (required) KDF iterations (?)   PBKDF2 SHA-256 Image: Comparison of the second s					
Subscription	We recommend 600,000 or more					
Domain rules	Change KDF					
Emergency access						
Free Bitwarden Famili						
	API Key					
	Your API key can be used to authenticate in the Bitwarden CLI.     View API key   Rotate API key					
	Kevs					

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**.

### **U** bit warden

#### 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 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.

#### 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:



Login Prompt with Auth Challenge

## **D** bit warden

#### **▲** 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.