U bitwarden Help Center Article

PASSWORD MANAGER > VAULT BASICS

Username & Password Generator

View in the help center: https://bitwarden.com/help/generator/

Username & Password Generator

Use the Bitwarden generator tool to easily create strong passwords and unique usernames. The password generator is available in all Bitwarden apps and the username generator is available in the web vault, browser extension, desktop app, and mobile app.

If you are not a current Bitwarden user, you can also test our free password generator at https://bitwarden.com/password-generator/.

Generate a password

To generate a strong password:

⇒Web app

Select **Tools** → **Generator** from the navigation:

D Password Manager	Generator			
🗇 Vaults	Password	Passphrase	Username	
🕼 Send				
🖏 Tools 🛛 🔨	mpFn∗Jt2\$7SoHXqg		0	
Generator	Options			
Import data	- Length			
Export vault	16			
æ Reports	Value must be between 5 and 128.			
Settings	Include			
	🗸 A-Z 🛛 🗸 a-z	✓ 0-9	\$%^&*	
	Minimum numbers	Minimum special –		
	Avoid ambiguous characters			
	Generator history			
	Web ap	p password generator		

The options you specify on this page will be saved until you log out of the web app. You can also quickly generate a strong password using those same options directly from the Add or Edit Item screens using the \bigcirc **Generate** button:

Password Manager	Edit login X	+ New 👯 💶	
🗇 Vaults	Item details යි	3 :	
🗇 Send	C Item name (required)		_
් Tools /	My New Item	aniz	
Generator Import data	Owner		
Export vault	Login credentials	:	-
₽ Reports	myusername O		
Settings	Password ••••• $\oslash \ $:	
	Use the generator ${\mathbb Q}$ to create a strong unique password	:	

In-item password generator

All passwords that you generate in **either** location, even if you don't save them to an item, will be temporarily recorded and can be viewed using the **Generator history** button. This history is cleared when you log out. ⇒**Browser extension**

Select the \bigcirc Generator tab:

\leftrightarrow \rightarrow C \Rightarrow bitwarden.com	달 역 ☆ 🔽 🖬 🗄 🗄
♥ bitwarden Products~ Pricing Downloads Developers Resour	Generator 🛛 🖉 🔴 Get started Log in
The most trusted password manager Bitwarden is the best password manager for securely storing, managing, and sharing sensitive online data such as passwords, passkeys, and credit cards.	Password Passphrase Username Uq*9D9Qw8ciaJlW#7 C Options
Start an enterprise trial View plans and pricing	Length 18
Capterra Leader Enterprise FALL 2024 2024 Capterra SHORTLIST 2024 2024	Include ✓ A-Z ✓ a-z ✓ 0-9 ✓ !@#^&* Minimum numbers 1 Avoid ambiguous characters ✓ Avoid ambiguous characters
Everything you need	Vault Generator Send Settings

Browser extension password generator

You can also generate a strong password from the Edit screen using the ${\mathbb C}$ Generate button:

\leftrightarrow \rightarrow C \mathfrak{S} bitwarden.com	다 e ☆ 🕖	छ। 💿 ः
♥bit warden Products∽ Pricing Downloads Developers Resour	< Edit login	Get started Log in
The most trusted password manager for securely storing, managing, and sharing sensitive online data such as passwords, passkeys, and credit cards. Start an enterprise trial	Item details	
G Leader Enterprise FALL 2024 Enterprise FALL 2024 Enterprise FALL 2024 Enterprise FALL 2024 Enterprise FALL 2024	myusername	Top Performer Slashdot * Spring 2024
Everything you need]

Browser extension password generator

If you're creating an account that isn't stored in Bitwarden, you can also use the inline autofill menu to generate and autofill a password using the **Fill generated password** prompt:

Enter the email you'd like to cre	ate an account with
my_new_username	
Create a password	
Fill generated password	0

Fill generated password

When using inline, use the \bigcirc generate button to generate a new password until you're satisfied with it. Make sure you select **New login** when prompted to save the login to Bitwarden. Learn more.

All passwords that you generate in **any** location, even if you don't save them to an item, will be temporarily recorded and can be viewed using the **Generator history** button. This history is cleared when you log out.

⇒Desktop

Select **View** \rightarrow **Generator** from the menu bar:

é Bitwarden File Edit	View Account Window	Help	
	Search vault # F		
	Generator 💊 🛱 G		varden.com
	Constater history		×
> ALL VAULTS	Zoom in #=		
	Zoom out # -	Passphrase User	name
All items	Reset zoom # 0		
☆ Favorites	Toggle full screen 🛛 🖗 F		0
🗐 Trash	Reload 🔿 🛱 R		
	options		
\checkmark types	~ Length		
login	14		
🗔 Card	Value must be between 5 and 128	Use 14 characters or more to generate a strong password.	
🔠 Identity			
Secure note	Include		
🖉 SSH key	🗸 A-Z	✓ a-z ✓ 0-9	
✓ FOLDERS	Minimum numbers —	Minimum special	
-	1	0	
No folder	Avoid ambiguous charac	ers	\$
	Generator history		<u> </u>
	Close		
a			
My vault Sene	d		

Desktop App Password Generator

You can also generate a strong password from the Add/Edit Item screen using the \bigcirc Generate button:

•••	Q Search type		bitwarden.com
 > ALL VAULTS Image: All items ☆ Favorites Image: Trash TYPES O Login Card Identity Secure note Ø SSH key ✓ FOLDERS + No folder 	<image/> <text></text>	ADD ITEM Type Login Name New login item Username my_username Password Authenticator key (TOTP) URI 1 ex. https://google.com	
My vault Send	+	Cancel	

Desktop App Password Generator

All passwords that you generate in **either** location, even if you don't save them to an item, will be temporarily recorded and can be viewed using the **Generator history** button. This history is cleared when you log out.

⇒Mobile

Select the \bigcirc Generator tab:



Password generator on mobile

You can also generate a strong password from the Add/Edit Item screen, as well as from the iOS app extension accessible by tapping the Share icon, using the *C* **Generate** button:



Password generator on mobile

All passwords that you generate in **either** location, even if you don't save them to an item, will be temporarily recorded and can be viewed using the **Generator history** button. This history is cleared when you log out. ⇒CLI

Use the generate command to generate a password:

Bash

bw generate -uln --length 14

Additional options flags for generated passwords include:

- --minNumber
- --minSpecial
- --ambiguous

For more information, please refer to the Bitwarden CLI documentation.

Password types

Password

Passwords are randomly generated strings of a customizable set of character types. Options for passwords include:

- Length: Number of characters in your password.
- Minimum numbers: Minimum number of numbers in your password if 0-9 is enabled.
- Minimum special: Minimum number of special characters in your password if !@#\$%^&* is enabled.
- A-Z: Include uppercase letters in your password.
- a-z: Include lowercase letters in your password.
- 0-9: Include numbers in your password.
- !@#\$%^&*: Include special characters in your password.
- Avoid ambiguous characters: Prevent your passwords from having both a 1 and 1 or both a 0 and 0.

▲ Warning

Unless you need to satisfy a site's specific password requirements, we recommend keeping **Minimum Numbers** and **Minimum Special** as low as possible (O-1) as over-constraint limits the strength of generated passwords.

Passphrase

Passphrases are randomly generated groups of words, for example panda-lunchroom-uplifting-resisting. Options for passphrases include:

- Number of words: Number of words in your passphrase.
- Word separator: Character to use to separate words in your passphrase (- in the above example).
- Capitalize: Capitalize the first letter of each word in your passphrase.

• Include number: Include a single numerical character in your passphrase.

Generate a username

To generate a username:

⇒Web app

Select **Tools** → **Generator** from the navigation:

D Password Manager	Generator			000 000 000	
🗇 Vaults	Password	Passphrase	Username)
🕼 Send					
🖏 Tools 🛛 🔨	<pre>myemailaddress+7pe5iafq@gmail.</pre>	com	C) 🗋	
Generator	Options				
Import data	~ Type				
Export vault	Plus addressed email			-	
፰ Reports	Use your email provider's sub-addressing capabilitie	\$.			
Settings	myemailaddress@gmail.com				
	Generator history				
	Web app	o username generator			

You can also generate a username from the Edit screen using the \mathbb{C} **Generate** button:

D Password Manager	Edit login	×	+ New	000	0
🗇 Vaults	Item details	습			:
⊲ Send	C Item name (required)				·
් Tools /	My New Item		aniz		:
Generator Import data	Owner	•			:
Export vault	Login credentials				:
æ Reports	myusername)			
्छ Settings 🛛 🔻	Password	3			:
	Use the generator 🗘 to create a strong unique password				:

Web app username generator

All usernames that you generate in **either** location, even if you don't save them to an item, will be temporarily recorded and can be viewed using the **Generator history** button. This history is cleared when you log out.

\Rightarrow Browser extension

Select the \bigcirc Generator tab and choose Username:



Browser extension username generator

You can also generate a username from the Edit screen using the \bigcirc **Generate** button:



Browser extension username generator

All usernames that you generate in **either** location, even if you don't save them to an item, will be temporarily recorded and can be viewed using the **Generator history** button. This history is cleared when you log out.

⇒Desktop

Select View → Generator from the menu bar:

É Bitwarden File Edit	View Account Window Help		
	Search vault 🛛 💥 F		
(Generator % G		bitwarden.com
	Consider lister,		
/ ALL VAULIS	Zoom in 🛛 🔀 =		
200	Zoom out 🤀 –		×
items	Reset zoom ೫ 0		
☆ Favorites	Toggle full screen 🛛 🔍 F	Passphrase Username	
🛅 Trash	Reload 🏠 🕅 R		
V TYPES	mxd33mt0@	0	0
			
O Login	Options		
🗖 Card	_ Туре		
📧 Identity	Catch-all email		• J
🕞 Secure note	Use your domain's configured catch-all inbox.		iden
🖉 SSH key	- Domain name		
	.com		
→ FOLDERS			
🗎 No folder			
	Generator history		<u> </u>
	Close		
	1. +		
My vault Se	nd		

Desktop App Username Generator

You can also generate a username from the Add/Edit Item screen using the \bigcirc Generate button:

•••	Q Search type		bitwarden.com
 > ALL VAULTS I items ☆ Favorites I Trash > TYPES O Login □ Card Identity □ Secure note Ø SSH key > FOLDERS + No folder 	<image/> <text></text>	ADD ITEM Type Login Name New login item Username Password Authenticator key (TOTP) URI 1 ex. https://google.com ① New URI Folder	
My vault Send	+	Cancel	

Desktop App Username Generator

All usernames that you generate in **either** location, even if you don't save them to an item, will be temporarily recorded and can be viewed using the **Generator history** button. This history is cleared when you log out. ⇒**Mobile**

Select the \bigcirc Generator tab:



Username generator on mobile

You can also generate a username from the Add/Edit item screen, as well as from the iOS app extension accessible by tapping the Share icon, using the \bigcirc Generate button:

3:51		.ıl 🗟	00	3:51	₹41
Cancel	Edit item	Save	:	× Edit item	Save
ITEM INFORMATION				ITEM INFORMATION	
Rippling Accou	unt			Rippling Account	
Username		_		myusername	S
myusername			e	- Password	
Password				••••••	0 3
		• •	0	AUTHENTICATOR KEY (TOTP)	
Authenticator key (тотр)			Set up TOTP	
	Set up TOTP				
URIS					~
URI				https://rippling.com/	
nttps://rippling	,com/		0	New URI	
	New URI				
MISCELLANEOUS				Folder	~
Finance/Insura	ance				
Favorite		C		Favorite	
laster passworr	ra-promot (2)				

Username generator on mobile

All usernames that you generate in **either** location, even if you don't save them to an item, will be temporarily recorded and can be viewed using the **Generator history** button. This history is cleared when you log out.

Username types

Plus Addressed Email

Select this type to use your email provider's sub-addressing (aka "plus addressing" or "aliasing") capabilities. This will generate a plus addressed (named for the + and random string of characters) username based on your specified email address.

On the Add/Edit Item screen of browser extensions and desktop apps, you can select between generating username with a **Random** (for example, alice+gsd4aqqe@bitwarden.com) string or one based on the item's **email address** (for example, alice+github.com@bitwarden.com). **Email address** is limited to browser and desktop as it requires knowledge of the login's URI, in other locations the username generator will default to **Random**.

⊘ Tip

Why use plus addressed email?

Plus addressed emails allow you to filter your email for all the junk mail you get when signing up for a new service. Signing up for a service with the username alice+rnok6xsh@bitwarden.com will still send emails to alice@bitwarden.com, but you can easily filter emails that include +rnok6xsh to prevent them from clogging up your inbox.

Catch-all email

Select this type to use your domain's configured catch-all inbox. This will generate a random email address at your specified Domain.

On the Add/Edit Item screen of browser extensions and desktop apps, you can select between generating username with a **Random** (for example, bqzjlero@gardenllc.com) string or one based on the item's **Domain Name** (for example, Instagram.com@gardenllc.com). **Domain Name** is limited to browser and desktop as it requires knowledge of the login's URI, in other locations the username generator will default to **Random**.

∂ Tip

Why use catch-all email?

In some cases, catch-all inboxes are used by companies with their own domain (for example, <code>@bitwarden.com</code>) to prevent emails from going to your personal inbox and instead route them to a shared (and sometimes unchecked) company inbox in case record of them is needed in the future.

In other cases, individuals with their own domain (for example, <code>@gardenllc.com</code>) use catch-all setups to route email from accounts with privacy-oriented usernames (for example <code>Instagram.com@gardenllc.com</code>) to their actual inbox.

Forwarded email alias

Select this type to integrate the username generator with your external aliasing service. Most Bitwarden apps support integration with SimpleLogin, AnonAddy, Firefox Relay, Fastmail, Forward Email, and DuckDuckGo. The mobile app currently supports integration with SimpleLogin, AnonAddy, Forward Email, and Firefox Relay.

🖓 Tip

Why use forwarded email alias?

Using email aliasing services such as SimpleLogin and Addy.io, you can sign up for web accounts using an anonymous address (for example, nobody-knows-its-me.d0p0r@slmail.me) that will forward mail to your actual inbox (for example, alice@bitwarde n.com). This will prevent the website or service from collecting personal information (in this example, the name Alice and the fact that she works at Bitwarden) when you sign up.

To set up your email alias integration:

⇒SimpleLogin

1. Log in to your SimpleLogin account.

2. Select the profile icon and choose **API Keys** from the dropdown. SimpleLogin may require you to enter your password to create an API key.

3. In the New API Key section, enter a name that indicates the new key will be used by Bitwarden and select Create.

SimpleLogin	G	0	Û	Help 🖣	• (Upgrade		*	@protonm	nail.co
습 Aliases 몸 Subdomains & Mailboxes 몸 Domains 다 Directories @ Setting:	6								🔍 API Keys	
API Keys									[→ Sign out	
When you log in on a SimpleLogin mobile app or browser extension, a new API Key is a device where it was created, e.g. Samsung S8, John's iPhone, etc.	utomaticall	ly crea	ted a	nd store	ed or	ı your dev	vice. It	's usua	ally named after the	9
riangle API Keys should be kept secret and treated like passwords, they can be used to gain	access to	your a	accou	ınt.						
bitwarden										
Created 2 months ago. Used 16 times. Was last used a month ago.										

Delete										
									Delete Al	
New API Key										
Chrome										
Name of the api key, e.g. where it will be used.										
Create										

- SimpleLogin API Keys
- 4. Copy the API key and paste it in the API Key field in the Bitwarden username generator.
- 5. Password Manager browser extensions, mobile apps, and desktop apps can connect to a self-hosted SimpleLogin server. If you're selfhosting SimpleLogin, enter a Server URL.
- 6. Select Regenerate Username to generate a username and automatically create the corresponding alias in SimpleLogin.

⇒Addy.io

- 1. Log in to your Addy.io account.
- 2. In Addy.io, select Settings from the navigation menu.

Secure and trusted open source password manager for business

ê	Q Search			Aliases	Vupgrade secretagent5555 *
D ashboard	Dashboard				
() Aliases	Shared Domain 0 / 10	Recipients 1 / 1	Usernames 1 / 1	Domains 0 / 0	Rules 0 / 0
C Recipients	View all	View all	View all	View all	View all
8	Bandwidth (September)				
Usernames	ОМВ				10MB
) Domains	Aliases				
Rules	O Total Aliases	O Active		active	Deleted O
Failed	View All	View Active	View Inactiv	/e	View Deleted
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(¢	Stats				
Settings	Emails Penuardad	Emails Disakad	Email Daniia		Emails Cant

AnonAddy Settings

3. On the **General** tab of the settings screen, scroll down to **Update Default Alias Domain**. Select the default domain you wish to use for your alias.

(i) Note

The default domain selected here must match the Domain name used in the Bitwarden Username generator.

- 4. Select the API Keys tab and click the Create New API Key button.
- 5. In the Create New API Key dialog, enter a **Name** that indicates the new token will be used by Bitwarden, an **Expiration**, and Confirm your Addy.io account password. Once you have completed the required fields, select **Create API Key**.

Create New API Key

What's this API key going to be used for? Give it a short name so that you remember later. You can also select an expiry date for the key if you wish.



AnonAddy Generate Token

6. Copy the Personal Access Key and paste it in the API Access Token field in the Bitwarden username generator.

∏ Tip

We also recommend adding this Personal Access Token to your Addy.io vault item in Bitwarden, since this is the only time the token will be displayed in Addy.io.

- 7. In the **Domain Name** field, enter the Addy.io domain name you selected in **Step 3**. As a free user of Addy.io, your options are anonadd y.me, <username>.anonaddy.me or <username>.anonaddy.com.
- 8. Password Manager browser extensions, mobile apps, and desktop apps can connect to a self-hosted Addy.io server. If you're self-hosting Addy.io, enter a Server URL.
- 9. Select Regenerate Username to generate a username and automatically create the corresponding alias in Addy.io.

⇒Firefox Relay

- 1. Log in to your Firefox Relay account.
- 2. Select the profile icon and choose Settings from the dropdown:



- 3. Copy API Key into the API Access Token field of the Bitwarden username generator.
- 4. Select Regenerate Username to generate a username and automatically create the corresponding mask in Firefox Relay.

⇒Fastmail

- 1. Log in to your Fastmail account.
- 2. Select the profile icon and choose Settings from the dropdown.
- 3. From the navigation menu, select Privacy & Security and then Manage API tokens:

\bigcirc	Settings 🗡	Q	Search Settings			
÷	Back to Mail		Password & Two-step verification	Don't use a password you use elsewhere.		
Set	up			Change password Set up two-step vernication		
	Billing & Plan					
የጸ	Users & Sharing		Passkeys	① Want your account to be extra secure?		
⊕	Domains			Passkeys are the faster, easier, and more secure way to log in.		
\square	My email addresses			fingerprint, face, or screen lock.		
๔	Signatures & Compose			Create a passkey		
İ	Calendars					
1	Migration					
Stay secure Account recovery .						
Ø	Privacy & Security			Manage recovery options		
5	Restore data					
0	Masked Email		Logged in sessions			
Get	organized			Review sessions		
Б¢,	Display options					
	Folders		Connected apps &	You can use other apps to access your account, such as Mail on your		
∇	Mail rules		API tokens	phone or Outlook on your PC.		
Ĉ	Notifications			Manage app passwords and access Manage API tokens		
5	Custom swipes					

Fastmail API token

4. Select New API token to generate an API token.

${\begin{subarray}{c} \ \hline \ \end{array}}$	Settings Y	Q	Search Settings
÷	Back to Mail		Privacy & Security > API tokens
Set	up		API tokens
8	Billing & Plan		API tokens are developer keys for accessing your account's information. Learn more.
ጸዓ	Users & Sharing		
⊕	Domains		O T New API token

New API token

Include to following settings:

- Read-only access disabled.
- Masked Email enabled.
- 5. Copy API Key into the API Access Token field of the Bitwarden username generator.

6. Select Regenerate Username to generate a username and automatically create the corresponding alias in Fastmail.

⇒Forward Email

- 1. Log in to your Forward Email account.
- 2. Forward Email uses the default domain hideaddress.net, however if you have a registered domain you can connect it to the service. For more information, refer to the Forward Email setup guides.
- 3. In Forward Email, navigate to the **My Account** → **Security** page and copy the Developer Access API token:

Forward Email Upgrade Resources - Guides - Developers -	<u>My Account</u> -
Two-Factor Authentication	Domains
Configure One-time Password	Emails
One-time passwords ("OTP") allow you to add a layer of Two-Factor Authentication to your account using a de	Logs
authenticator app. If you lose access to your device or authenticator app, then you can use a recovery key provi	Profile
during configuration.	Billing
Enable OTP	Security
	Sign out
	Learn more
Developer Access	
API token a1b80203521c56b4767d3455 Keep your token secure and never share it publicly	Copy
Reset API Token	Learn more



- 4. In the Bitwarden username generator, paste the copied token in the **API access token** and enter **hideaddress.net** or your registered **Domain name**.
- 5. Select Regenerate Username to generate a username and automatically create the corresponding alias in Forward Email.

⇒DuckDuckGo

- 1. Follow the DuckDuckGo instructions to setup your Duck Address.
- 2. Once your Duck Address has been setup, select the **Autofill** tab on the DuckDuckGo email protection page, and open your web browser's developer tools.

3. Click the **Generate Private Duck Address** button and view the **Network** tab on your developer tools window. Select the "Addresses" call for the API POST request, and locate the API authorization item. The item will look like this: authorization: Bearer <API toke n value>.



© DuckDuckGo. Privacy, simplified.

Generate DuckDuckGo email alias

4. Copy the API authorization token value and paste it into the API key field on the Bitwarden generator feature.

5. Select Regenerate Username to generate a username and automatically create the corresponding alias in DuckDuckGo.

Random word

Select this type to generate a random word for your username. Options for random words include:

- Capitalize: Capitalize your username.
- Include Number: Include a 4-digit number in your username.