eSecu FIDO2 Security Key User Manual

(V2.1)

Excelsecu Data Technology Co., Ltd.

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1. Important Instructions

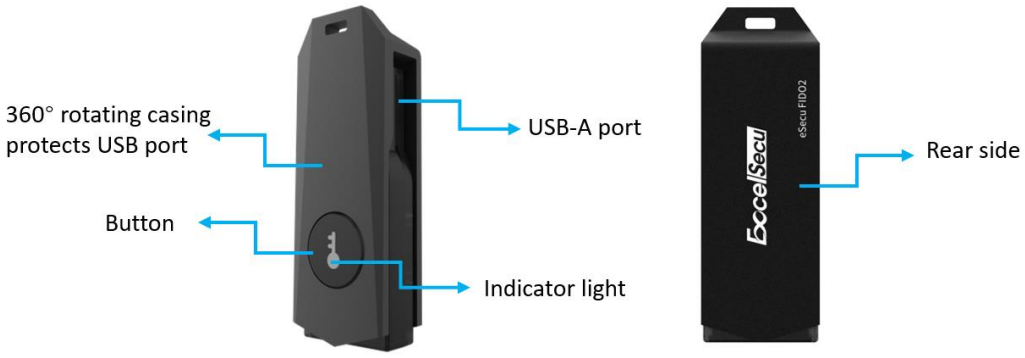
Thank you for using eSecu FIDO2 Security Key!

Please read this manual before operating your eSecu FIDO2 Security Key (FIDO2 Security Key for short) and keep it for future reference.

2. Product Overview

eSecu FIDO2 Security Key is a hardware authenticator supporting FIDO2 standard and FIDO U2F standard, as well as HOTP algorithm. It can be used on FIDO2-enabled or U2F-enabled services and applications as a factor of two-factor authentication, multi-factor authentication or passwordless authentication, and as an OTP device to secure the network account that needs login protection.

3. Product Picture



The button has the following lighting states:

Steady white light: Insert the FIDO2 Security Key in the computer's USB port.

Flashing white light: The FIDO2 Security Key blinks white light when received an authentication request. Press the button to complete the sign-in.

4. The Basic Operation of FIDO2

4.1. Register (First Time Only)

1. Enter the username and password to log in to any application that supports FIDO U2F/FIDO2.
2. Insert the FIDO2 Security Key in a USB-A port.
3. Add the FIDO2 Security Key to your account(s).

4.2. Signing-In (After Completing Registration)

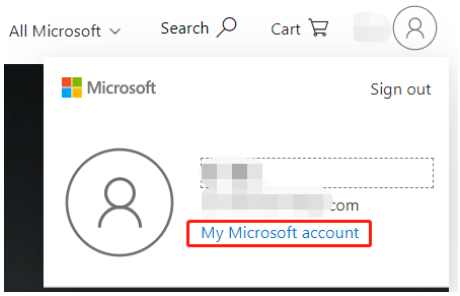
1. Open the website you want to log in.
2. Enter your usual username and password (for U2F-enabled services).
3. Connect the registered FIDO2 Security Key to your computer.
4. Authenticate with a simple press of the button.

5. How to use FIDO2 Security Key with Microsoft for passwordless login

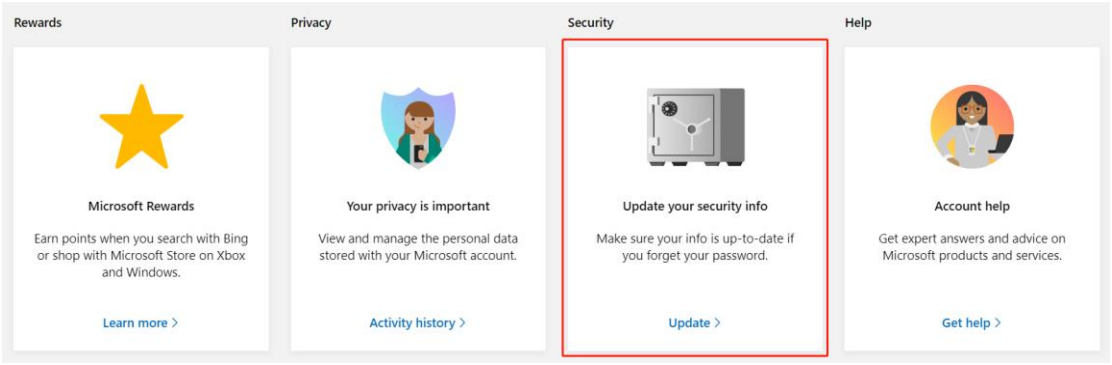
You need to use the Edge browser and Windows 10 operating system, and the system version must be 1809 and above.

5.1. Register the FIDO2 Security Key

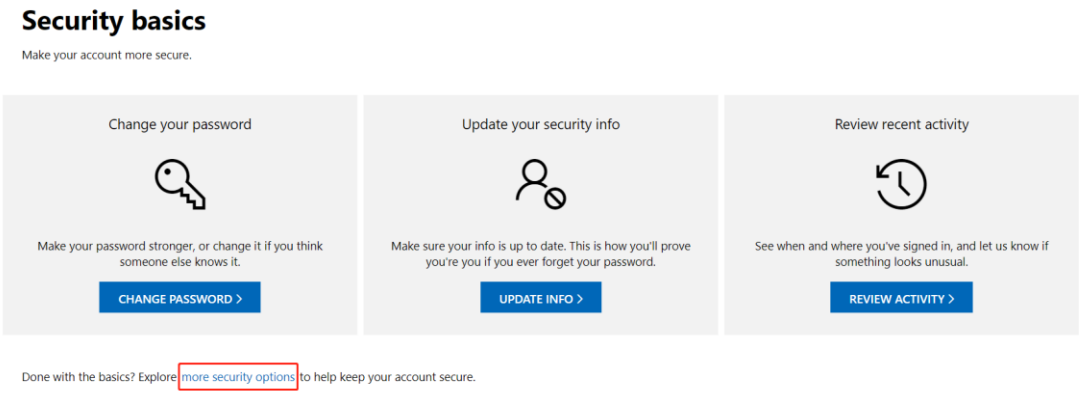
1. Click “My Microsoft account” after signing in.



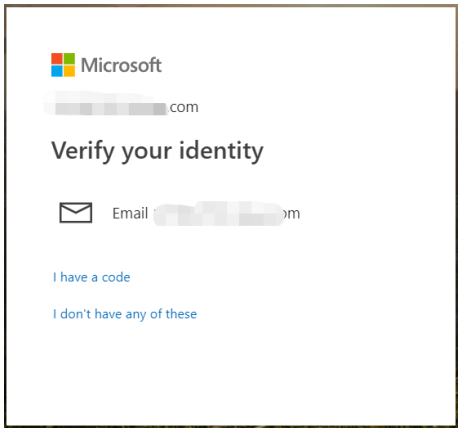
2. Select “Security”.

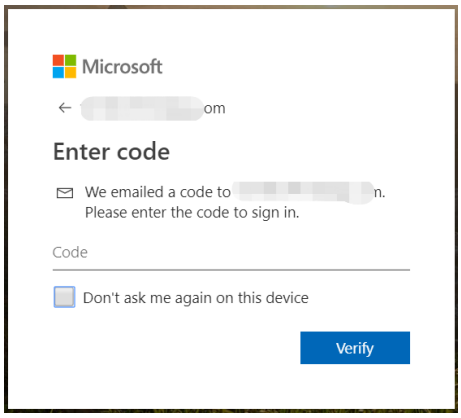


3. Click “more security options”.

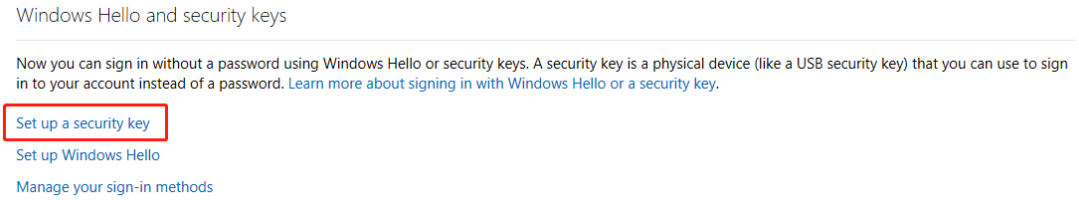


4. You will be asked to verify your identity.

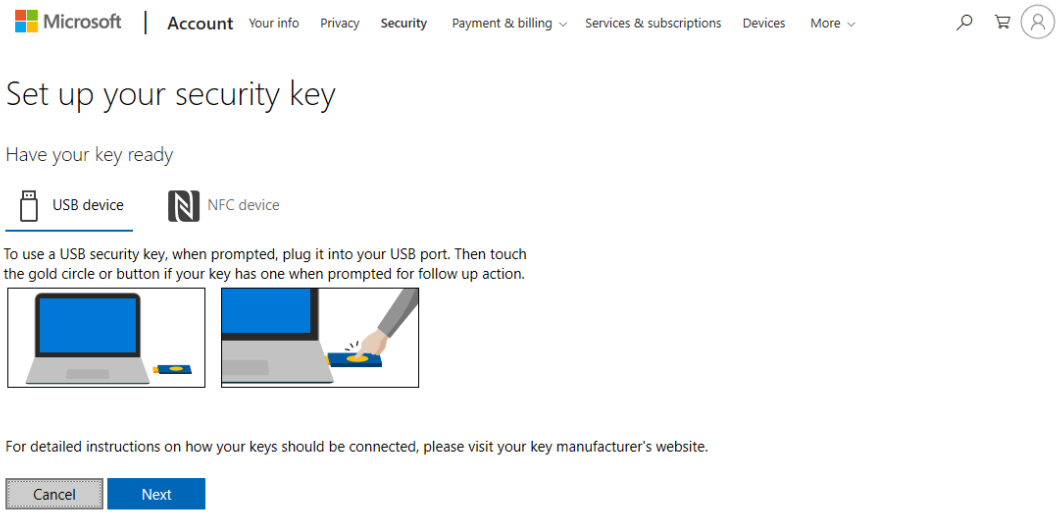




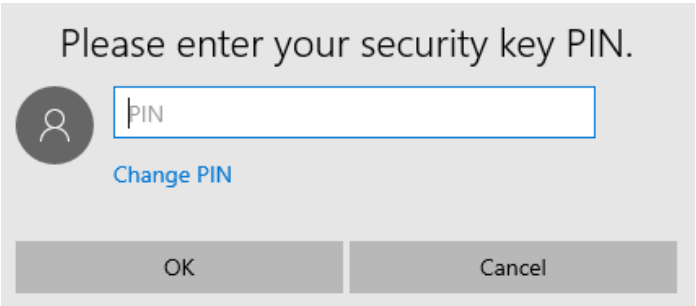
5. After the verification is passed, enter the “Additional security options” page, and click “Set up a security key” under “Windows Hello and security keys”.



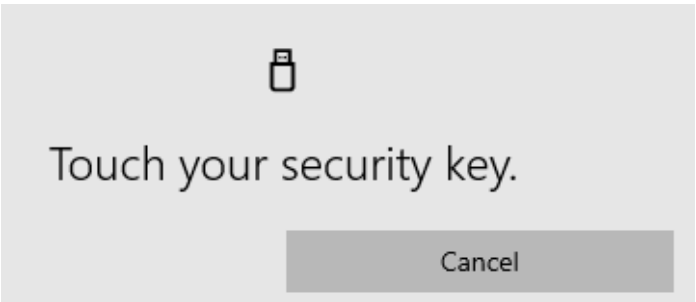
6. Click Next, and insert the FIDO2 security key when prompted.



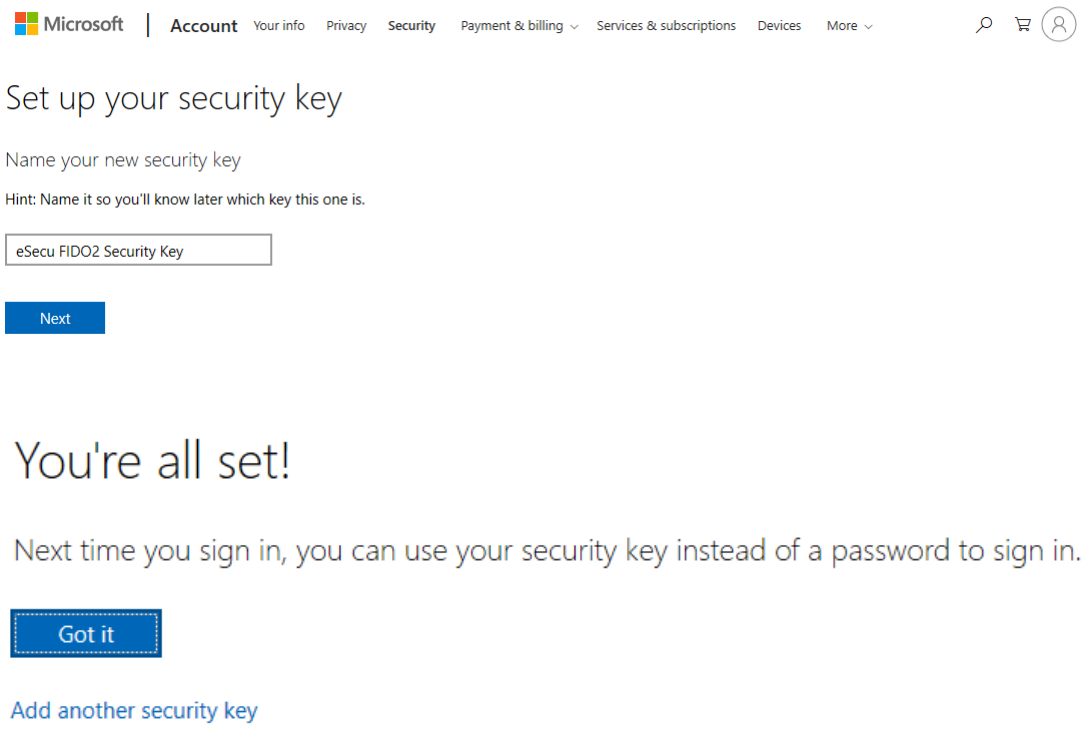
7. Verify the PIN of your security key.



8. Press the button on your FIDO2 security key when prompt.



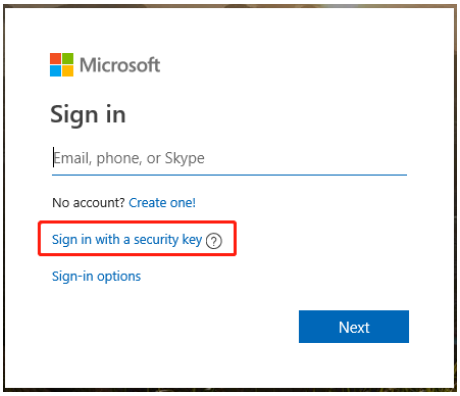
9. Name your FIDO2 security key, and the registration is finished.



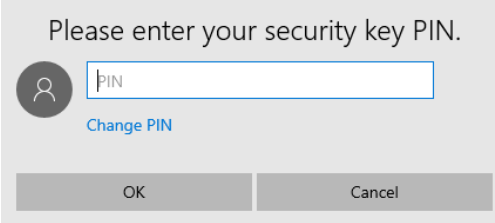
5.2. Sign in with FIDO2 Security Key

1. Click “Sign in”.

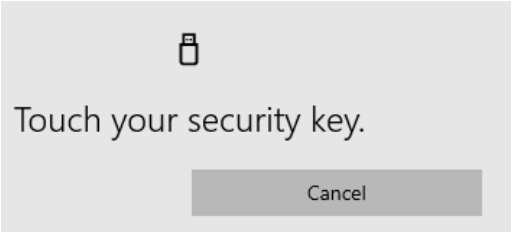
2. Click “Sign in with a security key”.



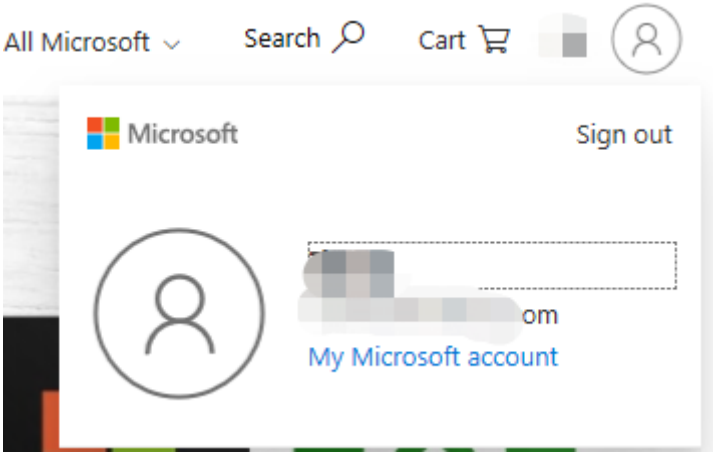
3. Enter your security key PIN.



4. Press the button on the security key when prompt.



5. Sign in successfully.

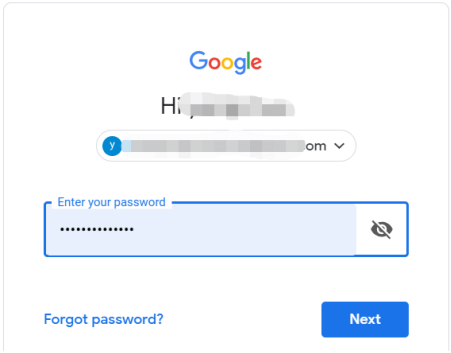


6. How to use FIDO2 Security Key with Google for 2-Step Verification

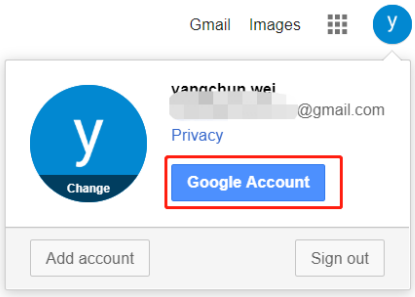
6.1. Register the FIDO2 Security Key

Register FIDO2 Security Key with your Google account to make it become the second authentication factor.

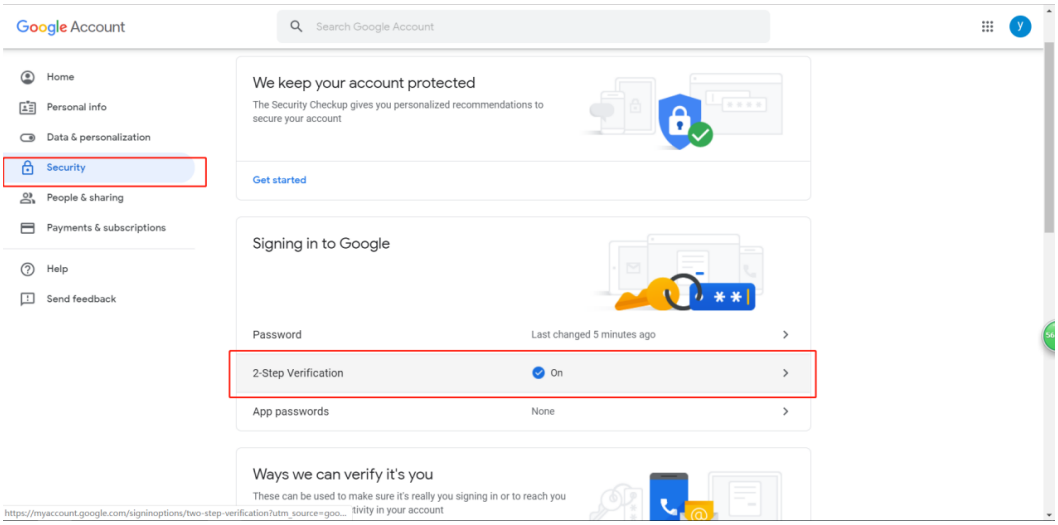
1. Log in to the website: https://www.google.com/ and click Login in the top right corner. Enter your account name and password.



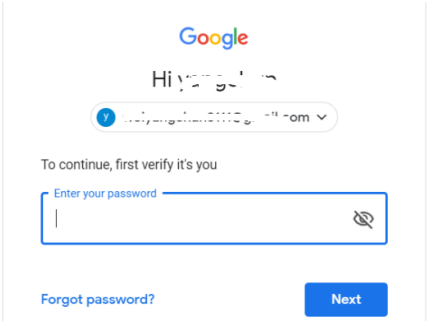
2. Once you have successfully logged in, click on your Google Account.



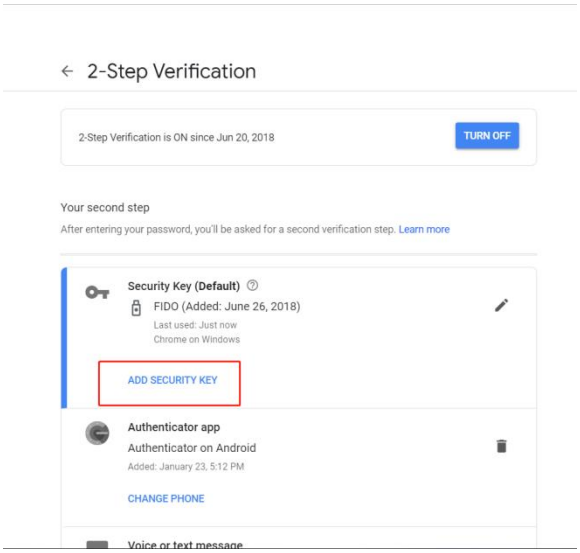
3. Select security->2-step verification.



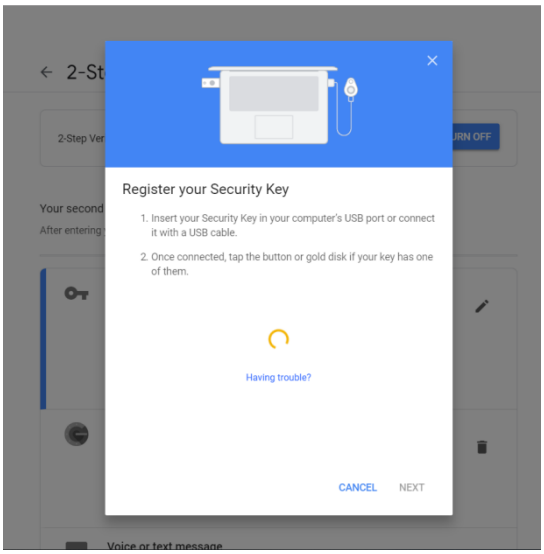
4. You will be asked to log in again.



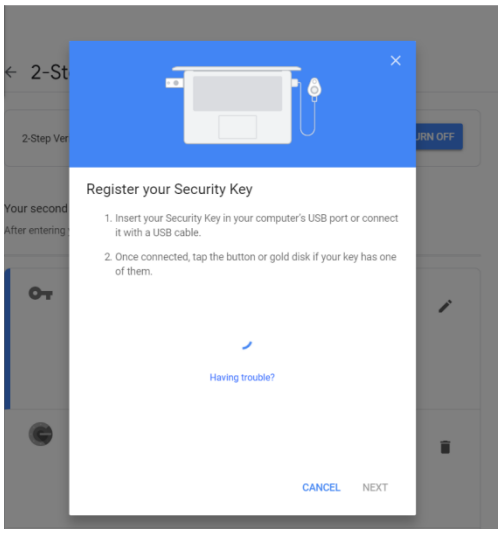
5. Click ADD SECURITY KEY.



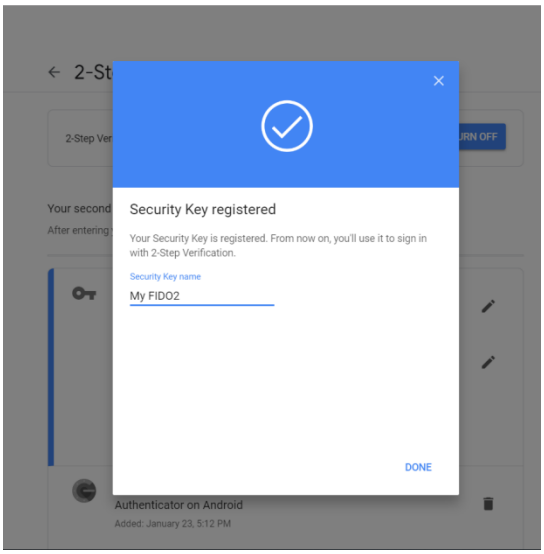
6. You will be prompted to insert your FIDO2 security key into a USB port. Click NEXT to continue.



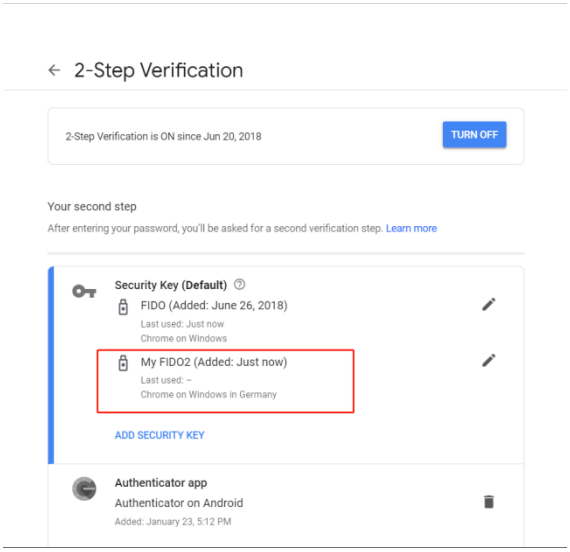
7. When the white light of the key is flashing, press the button on FIDO2 security key.



8. Rename the FIDO2 security key, click DONE to finish.

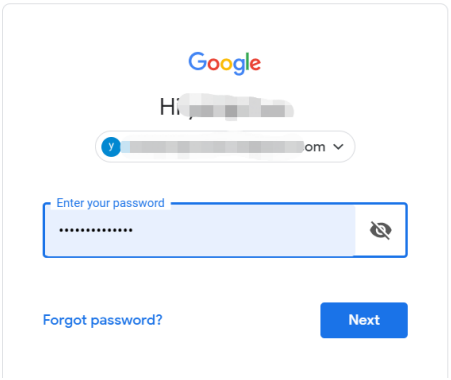


9. The FIDO2 security key becomes the default second authentication factor of your account. You will be asked to use it to complete 2-Step Verification when sign in to Google in the future.

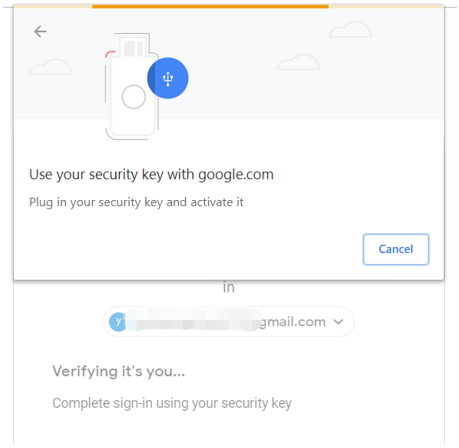


6.2. Sign in with FIDO2 Security Key

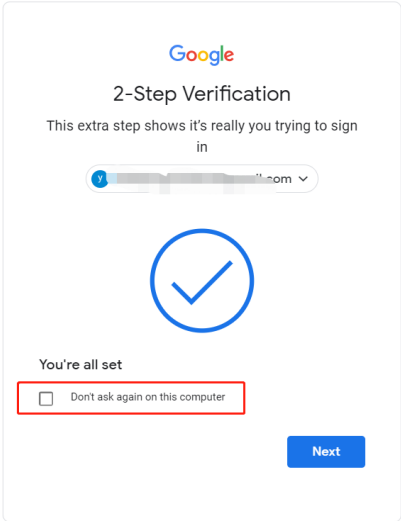
1. Log in to the website: https://www.google.com/ and click Login in the top right corner. Enter your account name and password, then click “Next”.



2. You will be prompted to insert your FIDO2 security key into a USB port. When the white light of the key is flashing, press the button on FIDO2 security key.

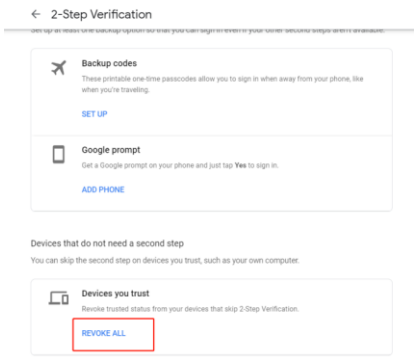


3. Click Next to login.



Note:

- By default, “Don’t ask again on this computer” is checked. After checking the box, the next login will skip the two-step verification and log in directly with the user name and password.
- You can undo trusted devices in settings to restore the use of two-step verification. Click “Revoke All” to clear the trusted device.



7. Usage of FIDO Manager and OTP

The Software used to configure the FIDO and OTP (TOTP/HOTP) is described in document of "Excelsecu Manager User Manual", you could refer to it for more details.

8 FAQ

8.1 How do I install the FIDO2 security key to my computer?

Answer: You don't need to install it, it's plug and play. It works with Windows, macOS, Linux, Chrome OS.

8.2 I have two gmail accounts, how many FIDO2 security keys do I need to protect two gmail account. Do I need 2 keys?

Answer: You can use one FIDO2 security key with multiple accounts, but that is not recommended. Regardless of if you're protecting one gmail account, or two - you should register multiple keys (if the service allows it). That way, if you lose your key, or it's damaged, or it's stolen, you will still have a backup key ready to use.

8.3 What should I do if I lost my FIDO2 security key?

Answer: Just go to the website your key already registered. On the 2-step verification tab or

similar tab, delete the device. Two FIDO2 security keys are recommended, one for normal use, the other for backup.

8.4 Does this FIDO2 security key have NFC capabilities?

Answer: No

8.5 Does this FIDO2 security key have Bluetooth capabilities?

Answer: No

8.6 What applications support FIDO2 security key?

Answer: The applications support FIDO® U2F/FIDO2 include but not limited to: Google, Microsoft, Facebook, Dropbox, GitHub, Salesforce, Dashlane, etc.

9 Product Specs

Product	eSecu FIDO2 Security Key
System	Windows, macOS, Linux, Chrome OS
Browser	Edge, Chrome, Firefox, Opera
Functions	FIDO® U2F, FIDO2, HOTP
Algorithm	ECDSA, SHA256
Size	44.7x16.0x9.0 (mm)
Interface	USB
Protocol	HID
Data Retention	≥20 years
Rewrite Cycle	≥100,000 times
Operating Voltage	5V±10%
Operating Current	Max <40mA
Button	Single button
Button Endurance	≥100,000 times
Operating Temperature	-10~60℃
Storage Temperature	-20~60℃
Operating Humidity	10~90%
Indicator Light	White
Material	AL, PC