

# USER GUIDE ON

## VINCSS FIDO2® TOUCH 1

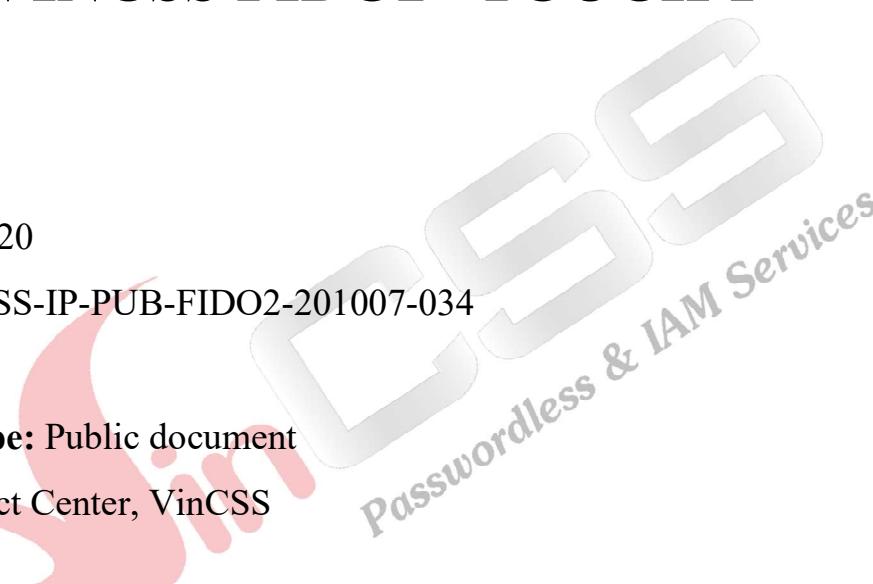
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**Author:** Product Center, VinCSS



**VINCSS CYBER SECURITY SERVICES LLC**

No. 7, Bang Lang 1 Street, Vinhomes Riverside, Viet Hung Ward, Long Bien District, Hanoi.

## VERSION TRACKING

Version	Date	Performer	Locate	Contact	Note
1.0	07/10/2020				First release of VinCSS FIDO2® Touch 1 – User guide
1.1	19/11/2020				Updated content
1.2	09/12/2020				Updated content
1.3	12/07/2021				Update content



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## TABLE OF CONTENTS

<b>VERSION TRACKING.....</b>	<b>2</b>
<b>TABLE OF CONTENTS.....</b>	<b>3</b>
<b>I. INTRODUCE FIDO2 AND VINCSS FIDO2® TOUCH 1 .....</b>	<b>4</b>
1. FIDO2.....	4
2. VinCSS FIDO2® Touch 1- Product Specification .....	4
<b>II. MANAGE PIN CODE .....</b>	<b>5</b>
1. Windows Platform .....	5
1.1 Create a new PIN code for VinCSS FIDO2® Touch 1 .....	5
1.2 Change PIN code for VinCSS FIDO2® Touch 1 .....	6
1.3 Reset PIN code for VinCSS FIDO2® Touch 1 .....	7
2. macOS Platform.....	10
2.1 Create a new PIN code for VinCSS FIDO2® Touch 1 .....	10
2.2 Change PIN code for VinCSS FIDO2® Touch 1 .....	11
2.3 Reset PIN code for VinCSS FIDO2® Touch 1 .....	12
3. Linux Platform .....	13
Configure “udev rules” for Ubuntu 18.04 or previous versions.....	13
<b>III. AUTHENTICATION WITH VINCSS FIDO2® TOUCH 1.....</b>	<b>14</b>
1. Passwordless authentication for Microsoft service .....	14
2. Passwordless authentication with OVPN service .....	19
3. Two-factor authentication with Google service .....	21
4. Two-factor authentication with Facebook service .....	25
5. Two-factor authentication with Dropbox service.....	29
6. Two-factor authentication with Twitter service.....	32

## I. INTRODUCE FIDO2 AND VINCSS FIDO2® TOUCH 1

### 1. FIDO2

FIDO2 is the overarching term for FIDO Alliance's newest set of specifications. With FIDO2, user only need the security key (protected by PIN/Fingerprint/FaceID) to login to many systems/applications instead of having to remember multiple passwords and changing them frequently.

VinCSS made a remarkable achievement in the technology market when they launched “*VinCSS FIDO2® Touch 1*” authenticator compliant with the FIDO2 standards.



### 2. VinCSS FIDO2® Touch 1- Product Specification

Information	Detail
Product Name	VinCSS FIDO2® Touch 1
USB Type	USB Type-A
Control	One Bit Capacitive Touch Button
Supported OS	Windows, macOS, Linux, Android, iOS
Authentication Methods	Passwordless, Strong Two Factor, Strong Multi-Factor
Certificate	FIDO2 Certified
Supported Protocol	FIDO2 CTAP2, Universal 2nd Factor (U2F)
Supported Browser	Google Chrome, Mozilla Firefox, Apple Safari, Microsoft Edge, Microsoft Edge Chromium
Encryption Algorithm	ECC p256
CPU	32-bit ARM® CortexTM-M4
Protection	ESD Protection 15kV Air, 8kV Contact
Account Storage	50
Indicator Lights	RGB Led
Standard	RoHS IEC 61000-4-6 (EMI for Capacitive Touch) IEC 61000-4-2 (ESD Protection)
Weight	15 gram
Product Dimensions	48.3(mm) x 12.5(mm) x 4.9(mm)
Operation Voltage/Current	5V/1A
Operation Temperatures	0°C ~ 55°C

For more information, see: <http://passwordless.vincss.net>

## II. MANAGE PIN CODE

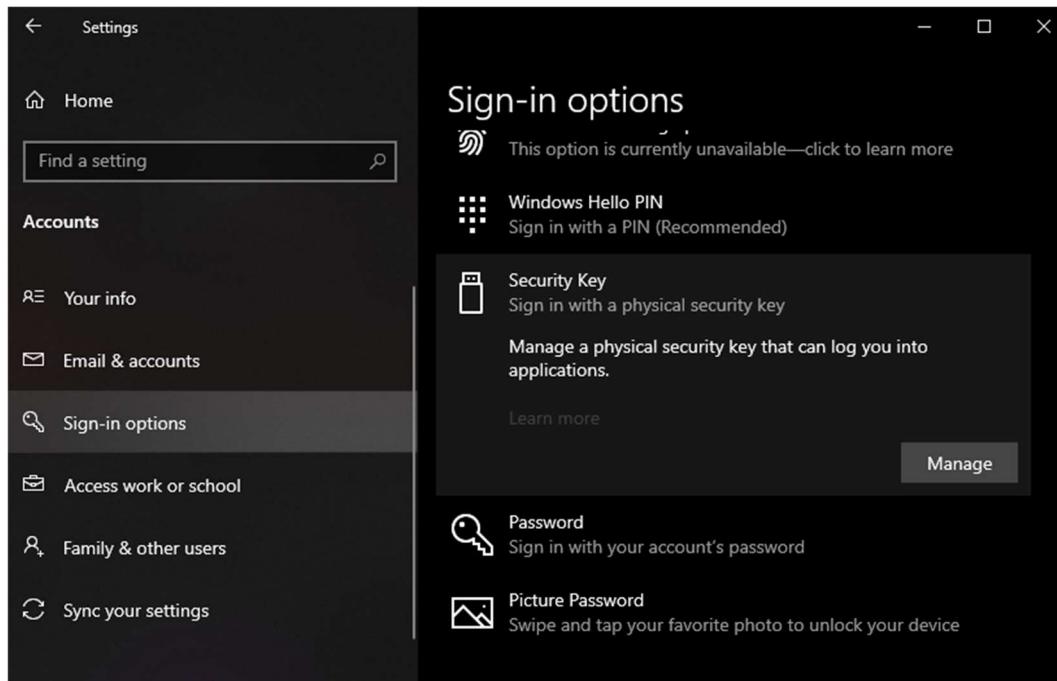
The PIN code for VinCSS FIDO2® Touch 1 is set to prevent unauthorized use or protect the key in case it's lost. To create, change or reset PIN code for VinCSS FIDO2® Touch 1, please follow the steps below.

### 1. Windows Platform

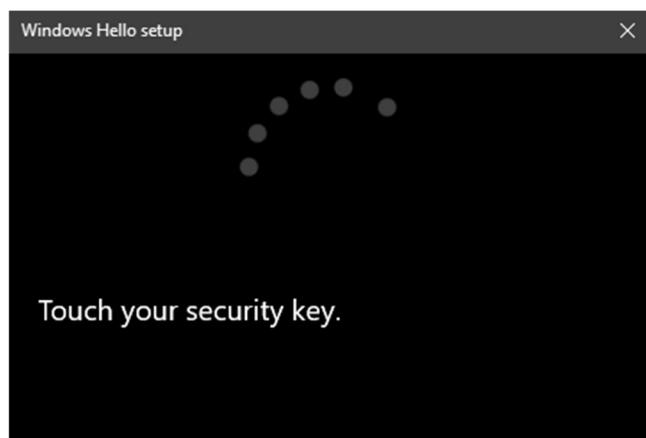
*Note: For Windows 10 version older than 1803, operations to manage security key will be performed on Chrome browser (same as macOS platform).*

#### 1.1 Create a new PIN code for VinCSS FIDO2® Touch 1

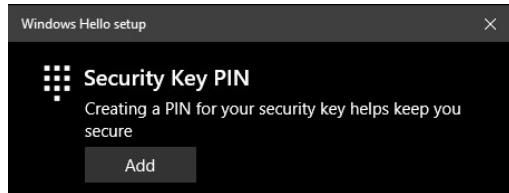
- Access **Start > Settings**
- Select **Account > Sign-in options > Security Key**. Then click the **Manage** button.



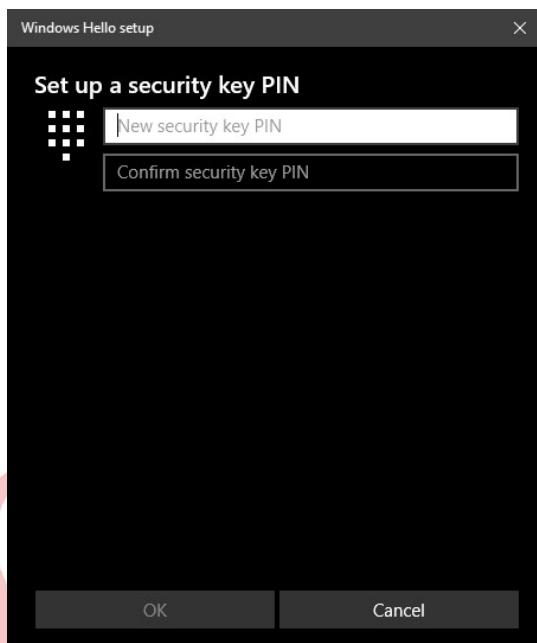
- Touch the yellow logo on the security key.



- Initial default, VinCSS FIDO2® Touch 1 has no PIN, to set PIN code for VinCSS FIDO2® Touch 1, in the **Security Key PIN** section, click **Add**.

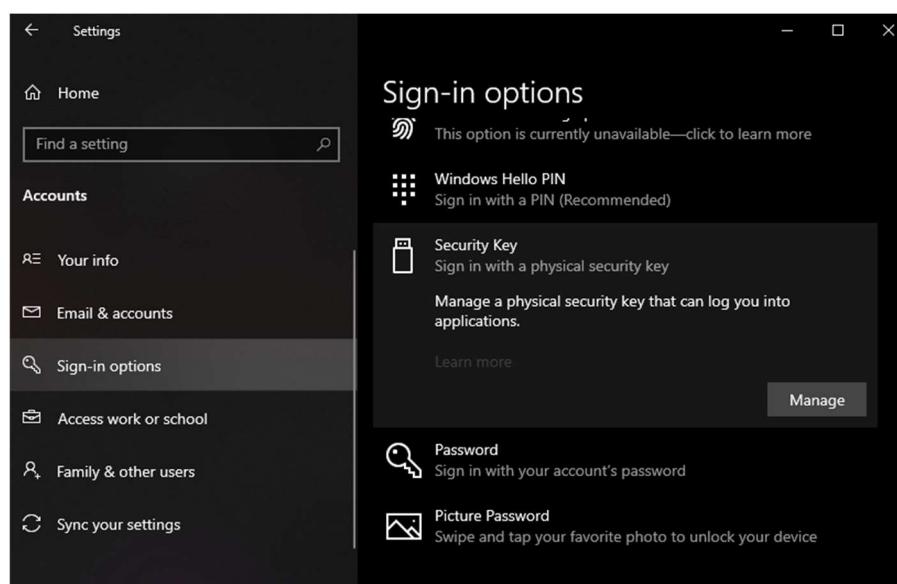


- Input the PIN code, then click **OK**.

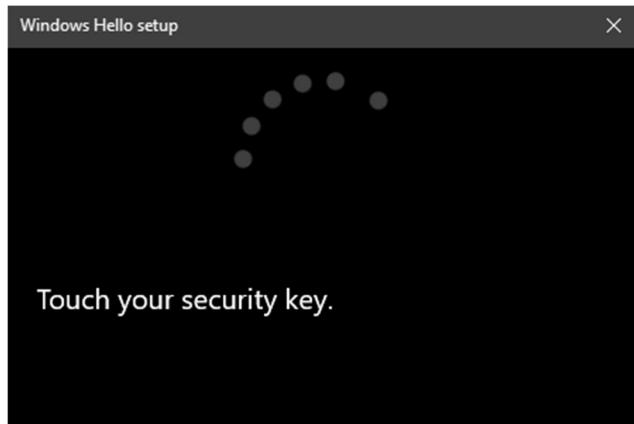


## 1.2 Change PIN code for VinCSS FIDO2® Touch 1

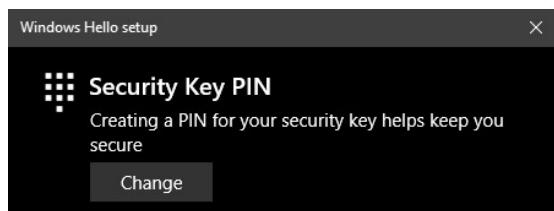
- Access **Start > Settings**
- Select **Account > Sign-in options > Security Key**. Then click the **Manage** button.



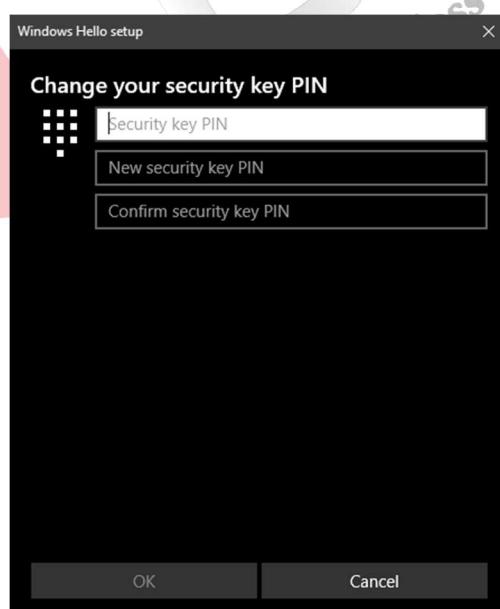
- Touch the yellow logo on the security key.



- In the section **Security Key PIN**, click **Change** to change the PIN code of the security key.



- Input information in the order: **old PIN**, **new PIN**, **confirm new PIN**. Then click **OK**.



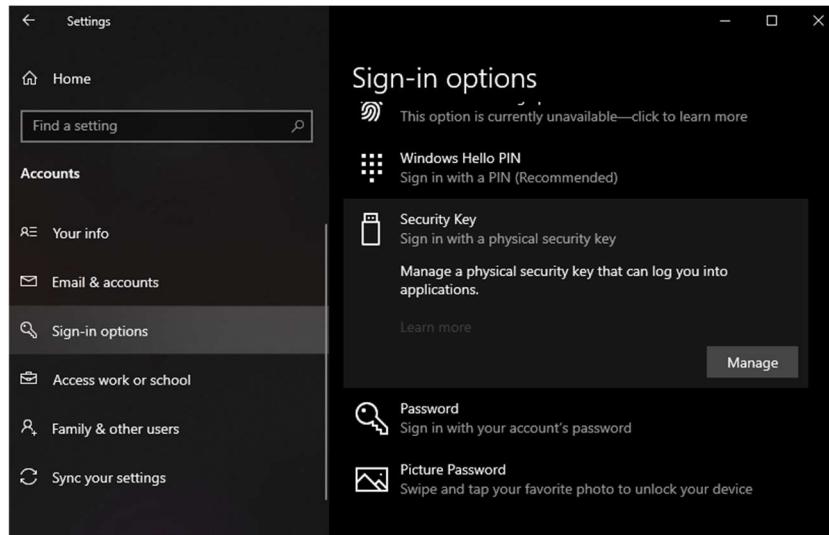
### 1.3 Reset PIN code for VinCSS FIDO2® Touch 1

In the case of forgetting the PIN code of VinCSS FIDO2® Touch 1, user can reset the PIN, that means user's security key credentials are removed, and user needs to re-register the key as new key. In case the PIN code is entered incorrectly many times (more than 8 times), the device will be locked

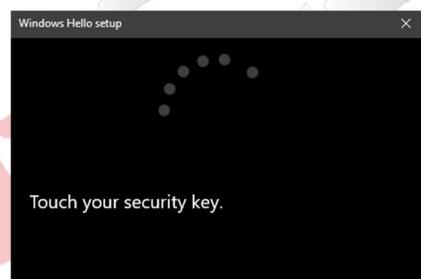
permanently, where the user has no choice other than to reset the security key to use as a new device.

To reset VinCSS FIDO2® Touch 1, please do the following steps:

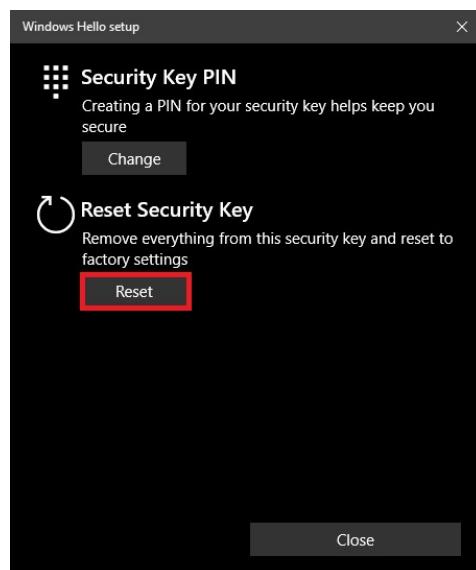
- Access **Start > Settings**.
- Select **Account > Sign-in options > Security Key**. Then click the **Manage** button.



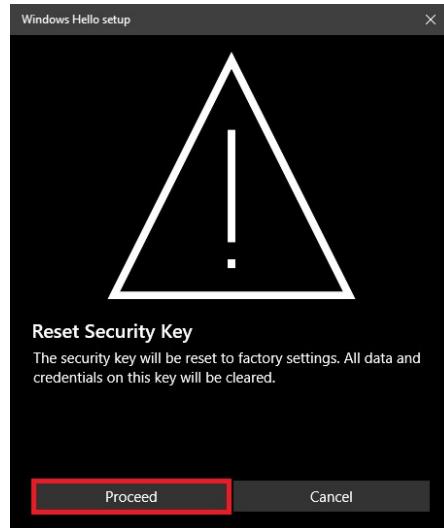
- Touch the yellow logo on the security key.



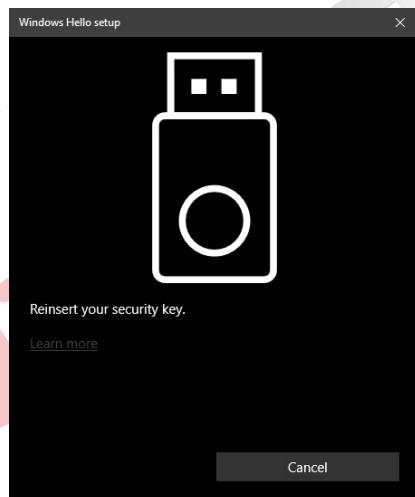
- In section **Reset Security Key**, click **Reset**.



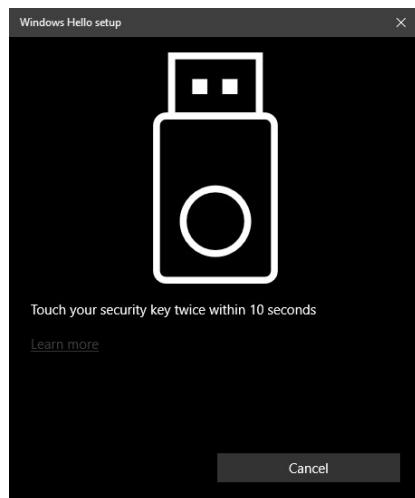
- Press **Proceed** to reset PIN code for VinCSS FIDO2® Touch 1.



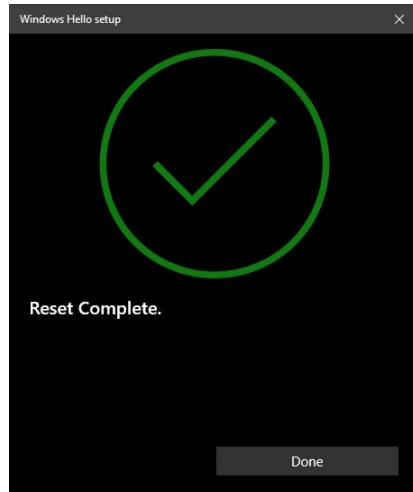
- Unplug the VinCSS FIDO2® Touch 1 security key from the computer, then plug it in again.



- Double-tap the yellow logo on the VinCSS FIDO2® Touch 1 security lock.



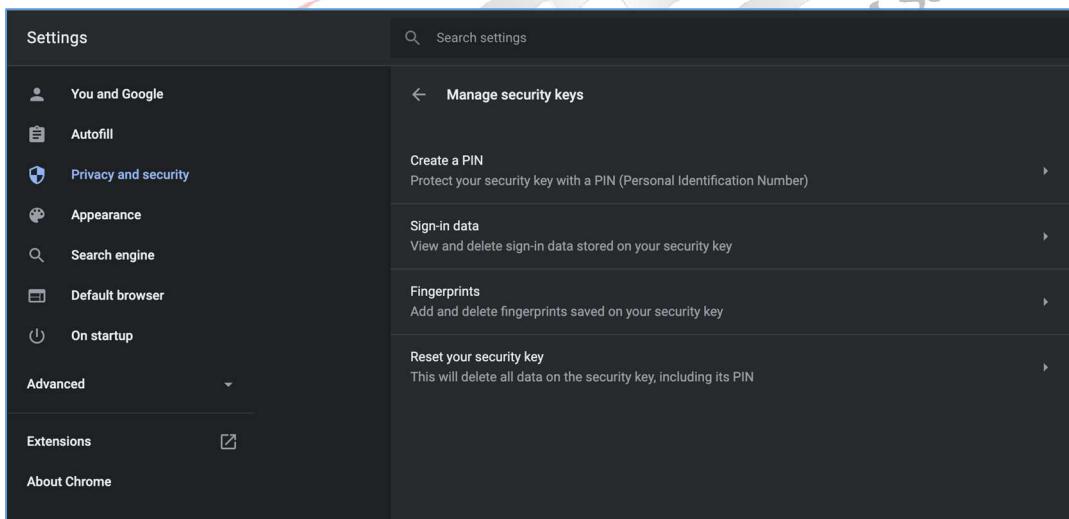
- PIN code reset is successful.



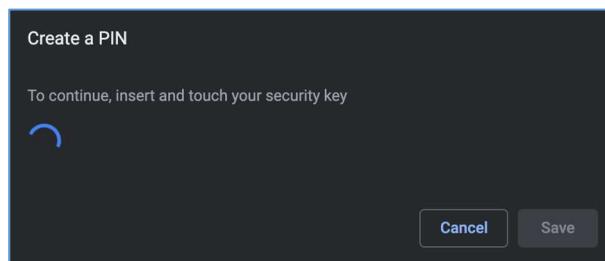
## 2. macOS Platform

### 2.1 Create a new PIN code for VinCSS FIDO2® Touch 1

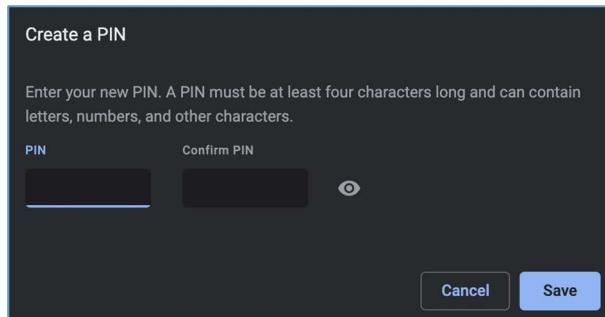
- Open Chrome browser, go to *Setting > Privacy and Security > More > Manage security keys*.



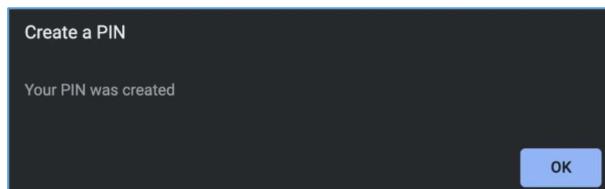
- Initial default, VinCSS FIDO2® Touch 1 has no PIN. To set PIN code for VinCSS FIDO2® Touch 1, on the *Manage security keys* interface, click **Create a PIN**, then touch the yellow logo to confirm.



- Next, enter PIN code and confirm and then click **Save** to create a PIN.

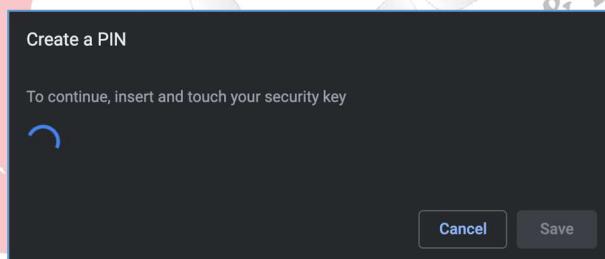


- Click **OK** to finish setting the PIN code for VinCSS FIDO2® Touch 1.

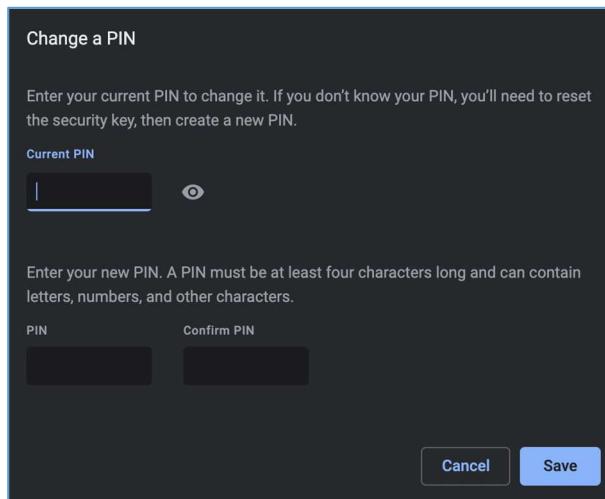


## 2.2 Change PIN code for VinCSS FIDO2® Touch 1

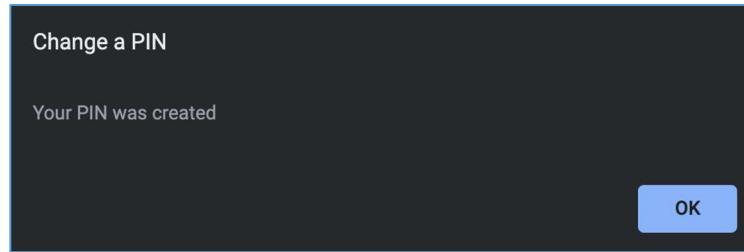
- To change the PIN code for VinCSS FIDO2® Touch 1, on the **Manage security keys** interface, select **Create a PIN** and touch the yellow logo to confirm.



- In the window **Change a PIN**, enter the current PIN code, at the bottom enter the new PIN to change and confirm again, then select **Save** to change.



- Click **OK** to complete the change of PIN code for VinCSS FIDO2® Touch 1.

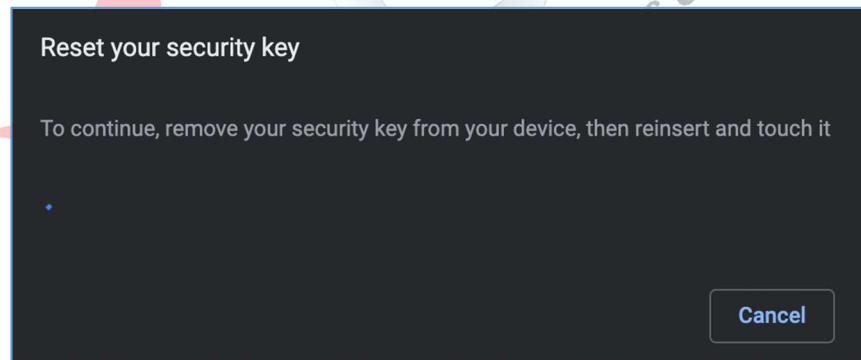


### 2.3 Reset PIN code for VinCSS FIDO2® Touch 1

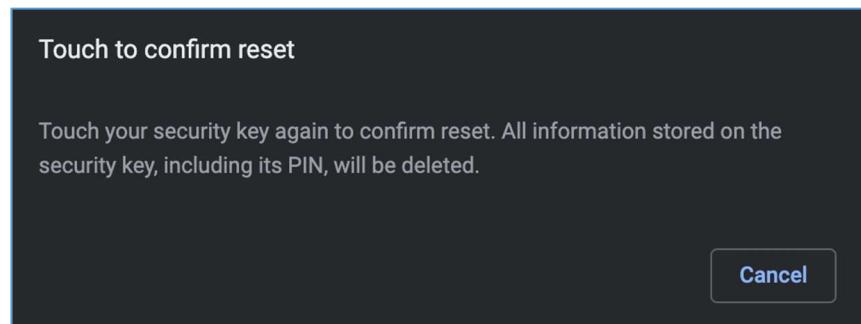
In the case of forgetting PIN code of VinCSS FIDO2® Touch 1, user can reset the PIN, that means user security key credentials are removed, and the user needs to re-register the key as a new key. In case the PIN code is entered incorrectly many times (more than 8 times), the device will be locked permanently, user has no choice other than to reset the security key to use as a new device.

To reset VinCSS FIDO2® Touch 1, please do the following steps:

- On the **Manage security keys** interface, select **Reset your security keys** and touch the yellow logo on VinCSS FIDO2® Touch 1 to confirm.



- Tap on the yellow logo on VinCSS FIDO2® Touch 1 again to confirm and finish resetting the VinCSS FIDO2® Touch 1.



### 3. Linux Platform

These versions of Linux already support VinCSS FIDO2® Touch 1 natively:

- Ubuntu 20.04
- Debian 10.5
- CentOS 8

For Ubuntu 18.04 or previous versions, need to config “udev rules”.

Other operations to manage security key will be performed on Chrome browser (same as macOS platform).

#### ***Configure “udev rules” for Ubuntu 18.04 or previous versions***

- Create a file named `66-vincss-fido2-access.rules` in `/etc/udev/rules.d` folder with the following content:

```
ACTION!="add|change|move", GOTO="mm_usb_device_blacklist_end"
SUBSYSTEM!="usb", GOTO="mm_usb_device_blacklist_end"
ENV{DEVTYPE}!="usb_device", GOTO="mm_usb_device_blacklist_end"

# VinCSS FIDO2 Touch 1
ATTRS{idVendor}=="0483", ATTRS{idProduct}=="a2ca", ENV{ID_MM_DEVICE_IGNORE}="1"
# VinCSS FIDO2 VOS Aris Pro
ATTRS{idVendor}=="18d1", ATTRS{idProduct}=="4ee1", ENV{ID_MM_DEVICE_IGNORE}="1"
# VinCSS FIDO2 VOS Aris
ATTRS{idVendor}=="18d1", ATTRS{idProduct}=="4ee7", ENV{ID_MM_DEVICE_IGNORE}="1"

LABEL="mm_usb_device_blacklist_end"

# VinCSS FIDO2 Touch 1
SUBSYSTEM=="hidraw", ATTRS{idVendor}=="0483", ATTRS{idProduct}=="a2ca",
TAG+="uaccess"
# VinCSS FIDO2 VOS Aris Pro
SUBSYSTEM=="hidraw", ATTRS{idVendor}=="18d1", ATTRS{idProduct}=="4ee1",
TAG+="uaccess"
# VinCSS FIDO2 VOS Aris
SUBSYSTEM=="hidraw", ATTRS{idVendor}=="18d1", ATTRS{idProduct}=="4ee7",
TAG+="uaccess"
```

- After that, access Terminal and run this command:

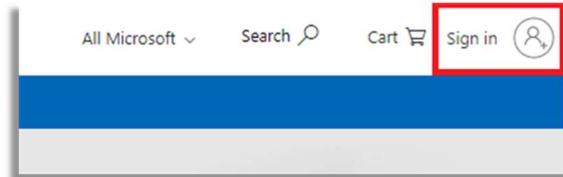
```
sudo udevadm control --reload-rules && sudo udevadm trigger
```

Access “<https://github.com/VinCSS-Public-Projects/FIDO2-Support/tree/main/Linux>” for download newest rules file.

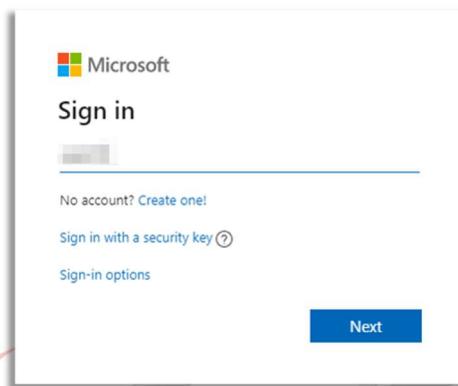
### III. AUTHENTICATION WITH VINCSS FIDO2® TOUCH 1

#### 1. Passwordless authentication for Microsoft service

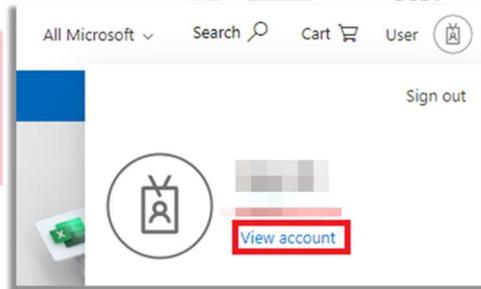
- Access <https://microsoft.com>, select **Sign in**.



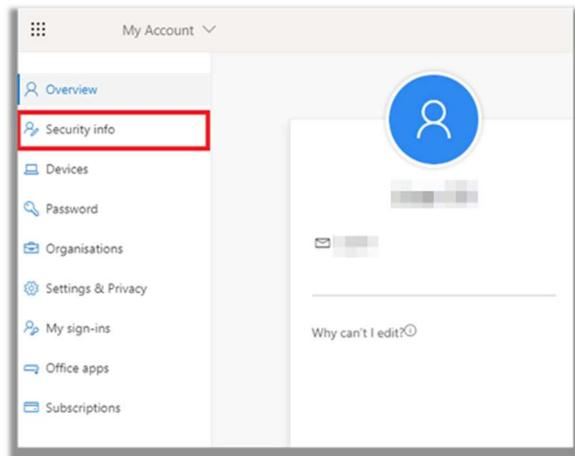
- Enter account information (username/password) to login.



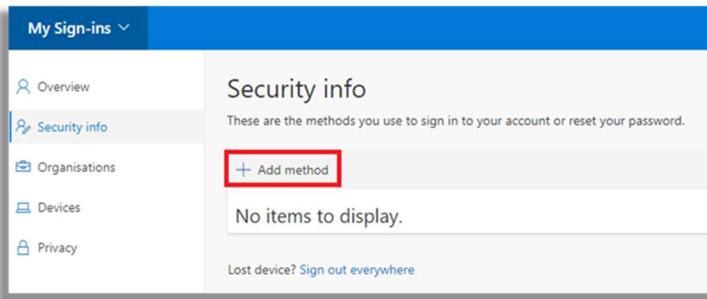
- After successful login, select **View account**.



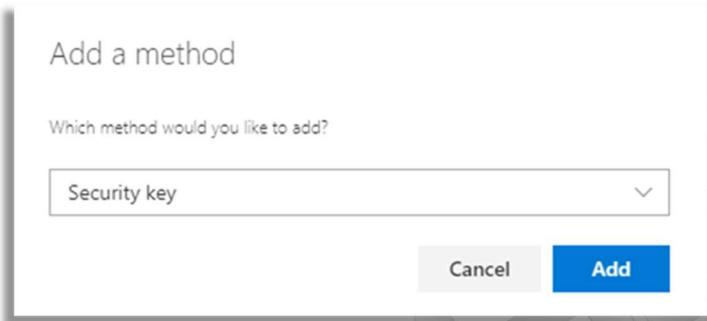
- Select **Security info** to change security settings.



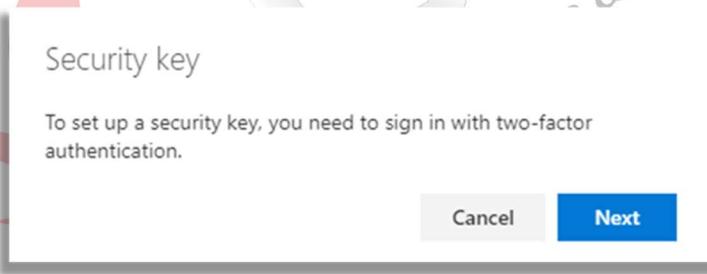
- Select **Add method** to add login method.



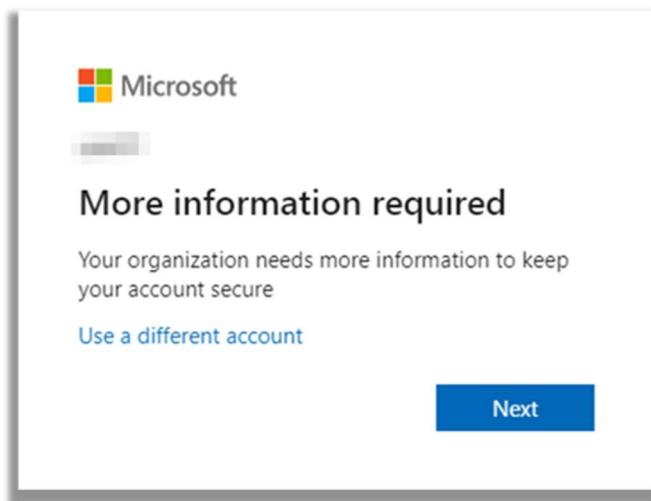
- Select **Security key** from the list and press the **Add** button.



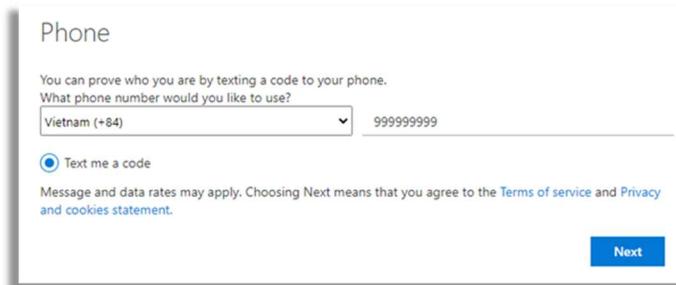
- To use security key, Microsoft requires to setup two-factor authentication first. Click **Next** to activate two-factor authentication.



- Select **Next** to continue.

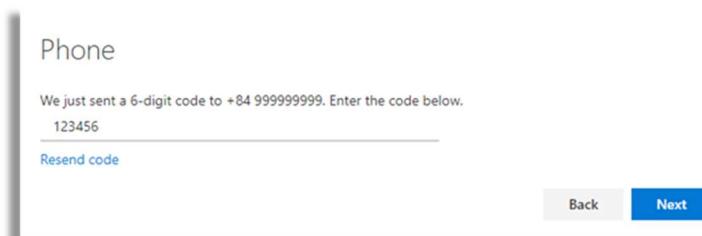


- Input the country code and phone number to receive the verification code.



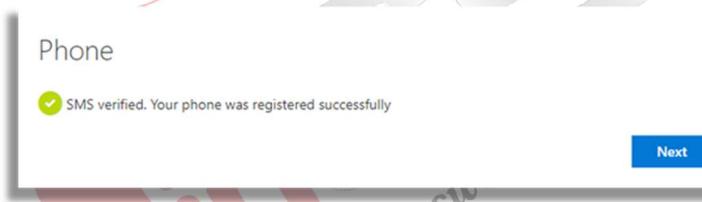
A screenshot of a web form titled "Phone". It asks for a phone number to prove identity via SMS. A dropdown menu shows "Vietnam (+84)" and a text input field contains "999999999". Below the input fields is a radio button labeled "Text me a code". A note below says "Message and data rates may apply. Choosing Next means that you agree to the [Terms of service](#) and [Privacy and cookies statement](#)". At the bottom right is a blue "Next" button.

- Enter the 6-digit code received via SMS to confirm the correct phone number (Example: code is 123456).



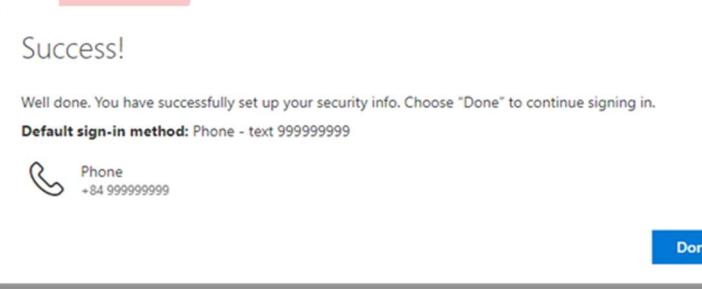
A screenshot of a web form titled "Phone". It displays a message: "We just sent a 6-digit code to +84 999999999. Enter the code below." Below this is a text input field containing "123456". There is a "Resend code" link and a "Back" button. At the bottom right is a blue "Next" button.

- Enable two-factor authentication successful. Click **Next** to continue.



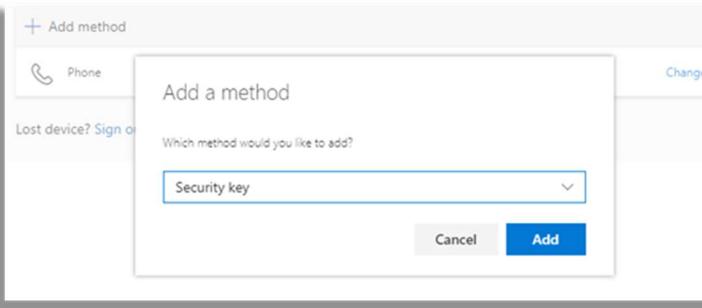
A screenshot of a web form titled "Phone". It shows a green checkmark icon and the text "SMS verified. Your phone was registered successfully". At the bottom right is a blue "Next" button.

- Confirm registered information, click **Done** to return to the **Security info** page.



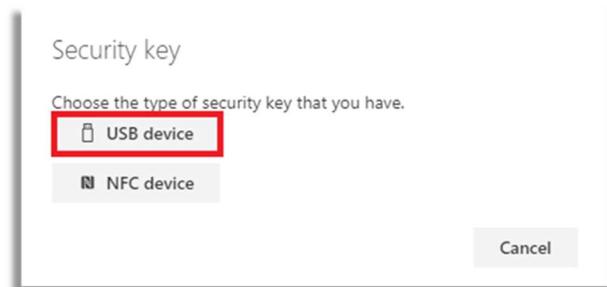
A screenshot of a web page titled "Success!". It says "Well done. You have successfully set up your security info. Choose "Done" to continue signing in." Below this, it shows a "Default sign-in method: Phone - text 999999999" and a phone icon with the number "+84 999999999". At the bottom right is a blue "Done" button.

- Select **Add method > Security Key**, then click **Add**.

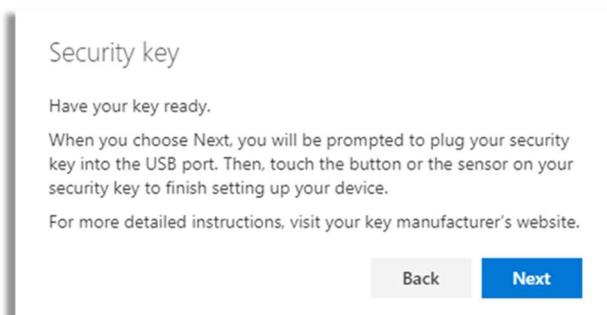


A screenshot of a modal window titled "Add method". It has a "Phone" option selected. The main area is titled "Add a method" and asks "Which method would you like to add?". A dropdown menu shows "Security key" as the selected option. At the bottom are "Cancel" and "Add" buttons.

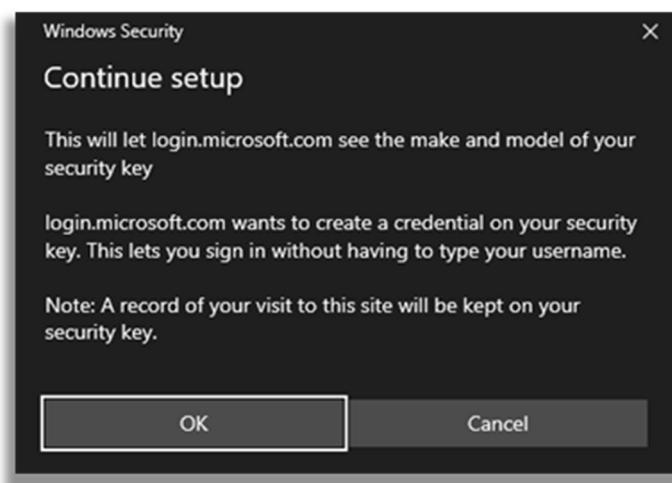
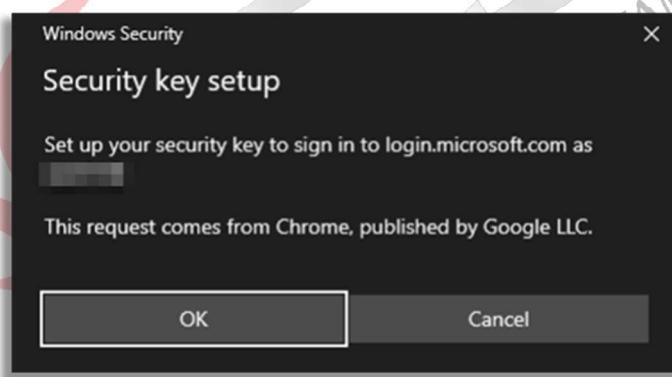
- Select **USB device**.



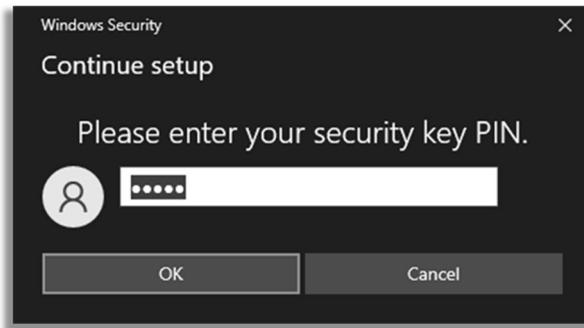
- Plug in VinCSS FIDO2® Touch 1 to the computer and select **Next**.



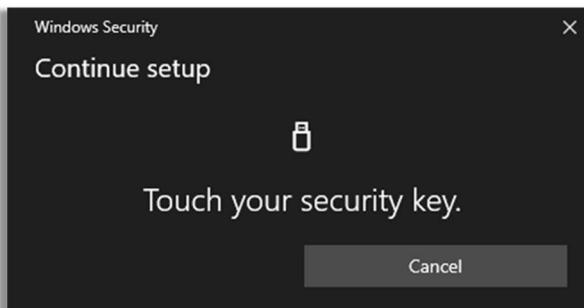
- Click **OK** in the next message.



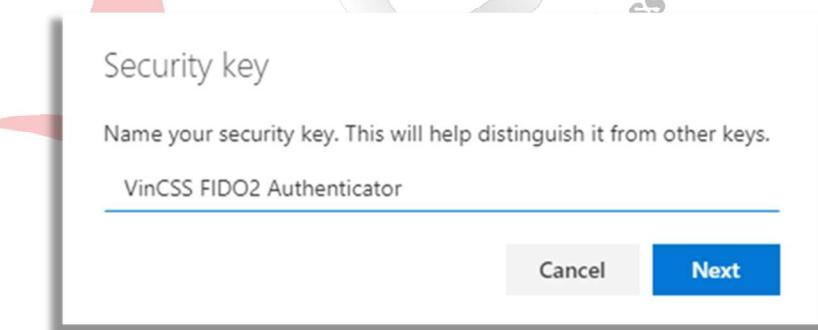
- Enter the PIN code set up earlier and press **OK**.



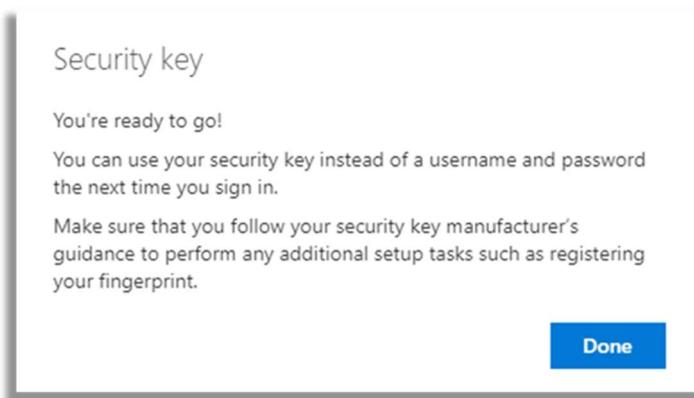
- Tap the yellow logo on VinCSS FIDO2® Touch 1 to continue.



- Name the security key to identify the key in case user uses multiple keys for the account, click Next to confirm.

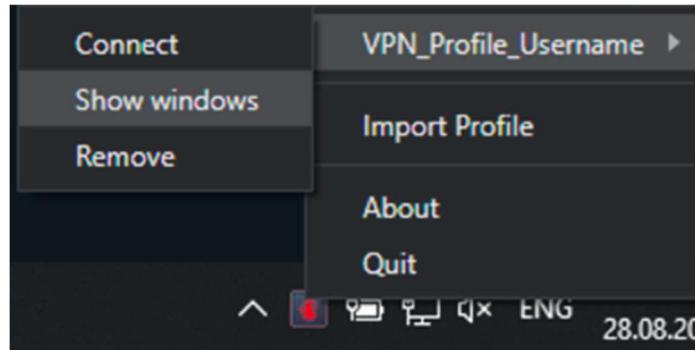


- Click **Done** to complete the Security key registration.

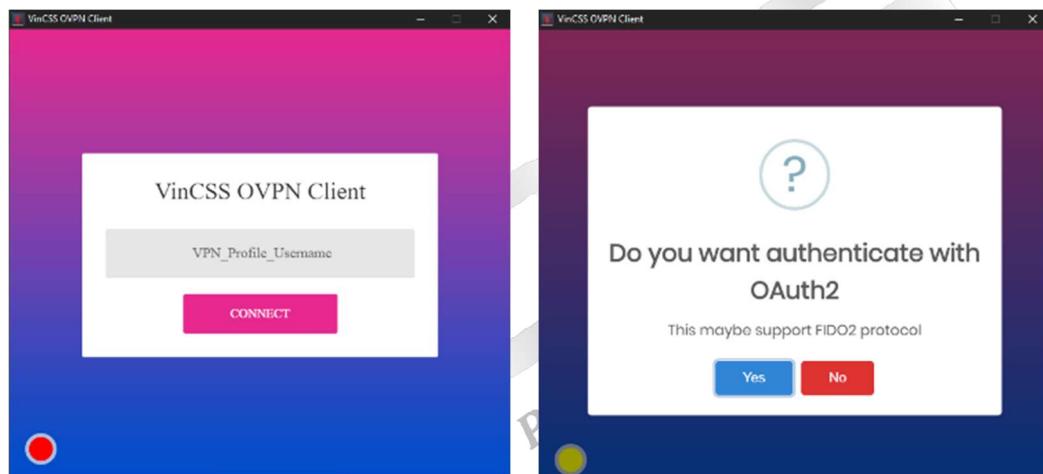


## 2. Passwordless authentication with OVPN service

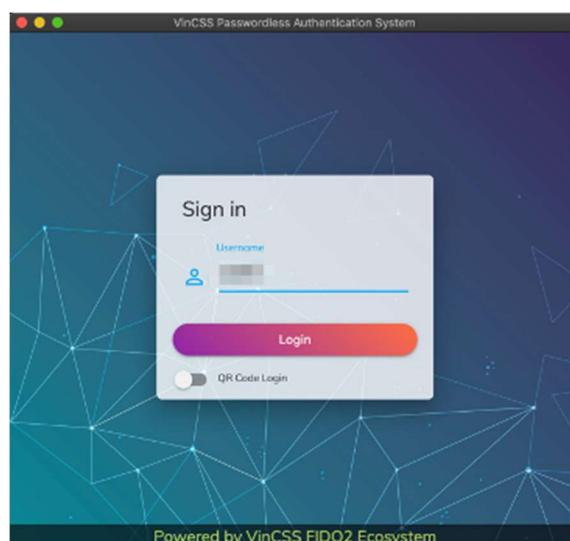
- Right-click on the VinCSS OVPN Client icon on the taskbar or tray bar, select the imported profile, then select **Show windows**.



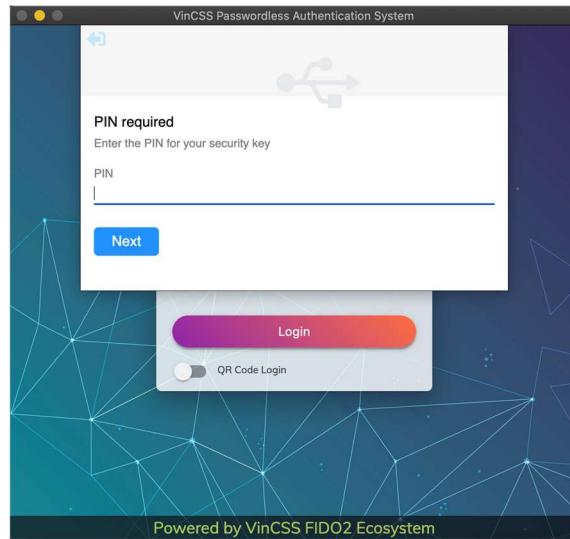
- On VinCSS OVPN Client interface, select **Connect > Yes** (to authenticate with VinCSS FIDO2® Touch 1).



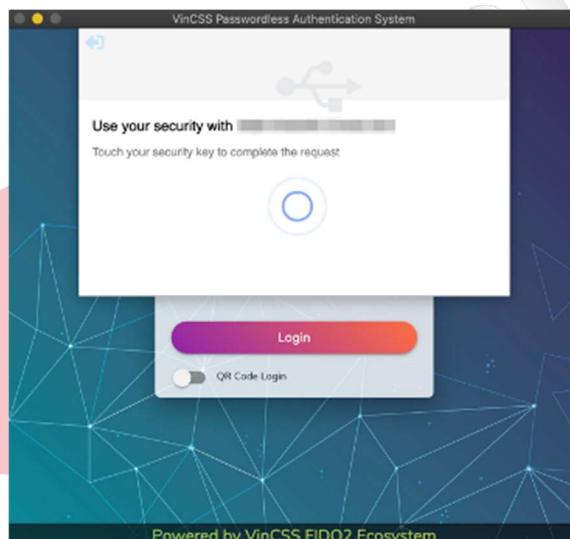
- Enter Username, then select **Login**. Next, plug in the VinCSS FIDO2® Touch 1 to the computer.



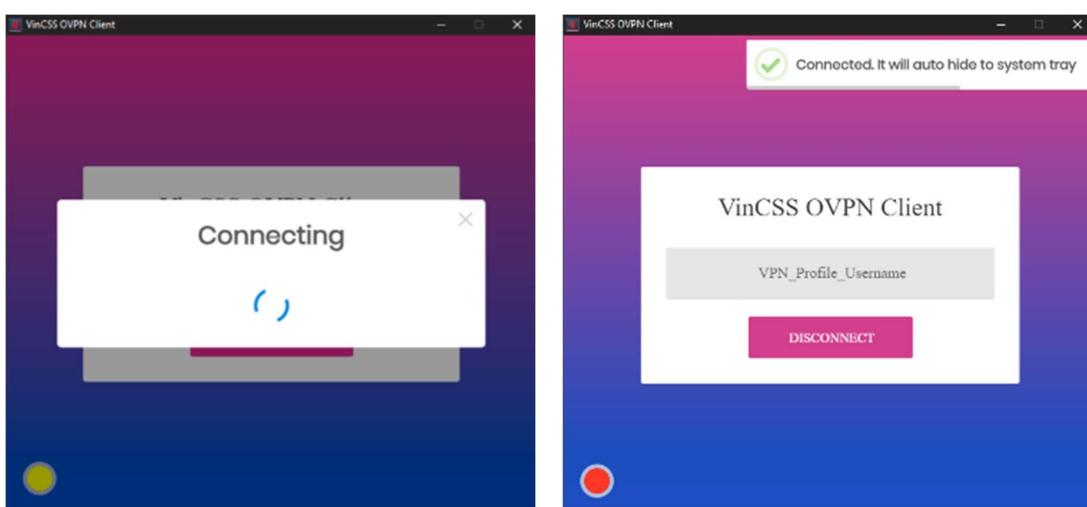
- Enter the PIN code of VinCSS FIDO2® Touch 1 and select *Next*.



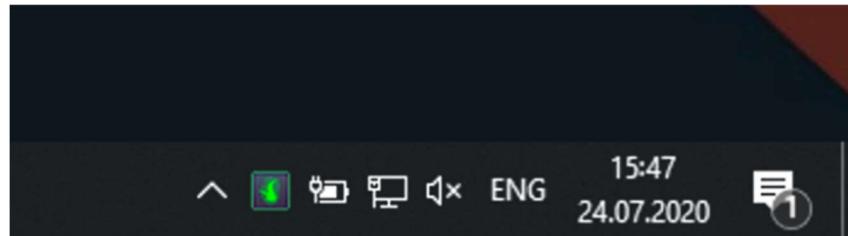
- Then, touch the yellow logo on the VinCSS FIDO2® Touch 1 hard key.



- The VPN connection is established after user authentication is successful.

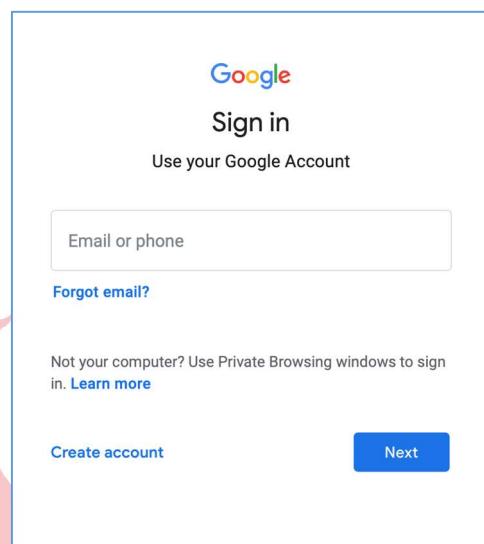


- VPN connection is successful. This window will auto-hide after a short period of time. On the tray bar will display a green app logo icon indicating a successful connection.

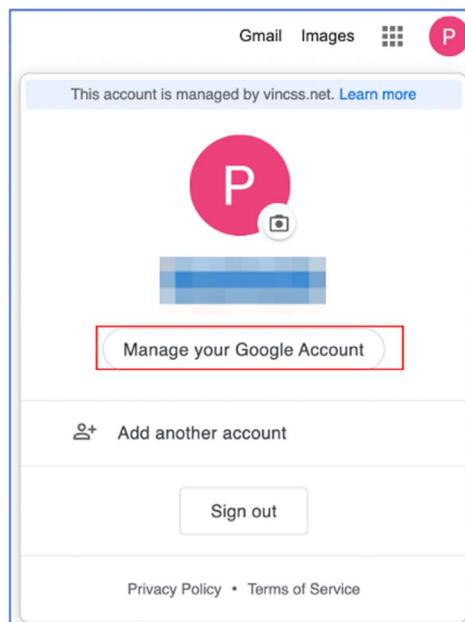


### 3. Two-factor authentication with Google service

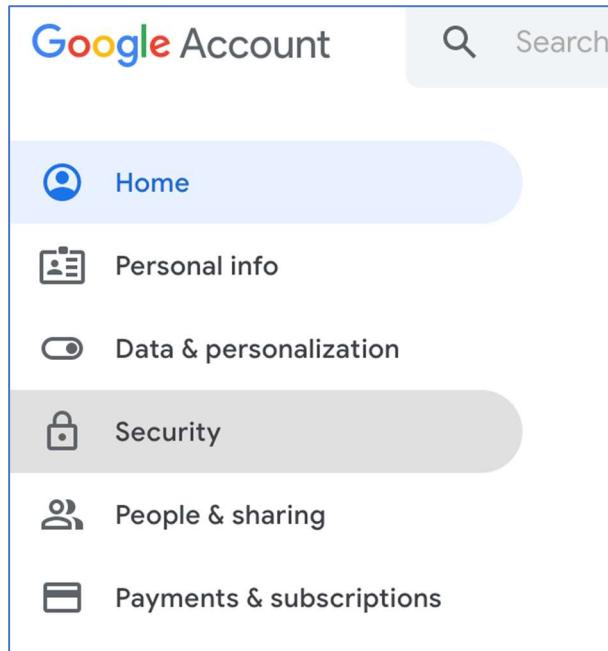
- Go to <https://accounts.google.com>, login with username and password.



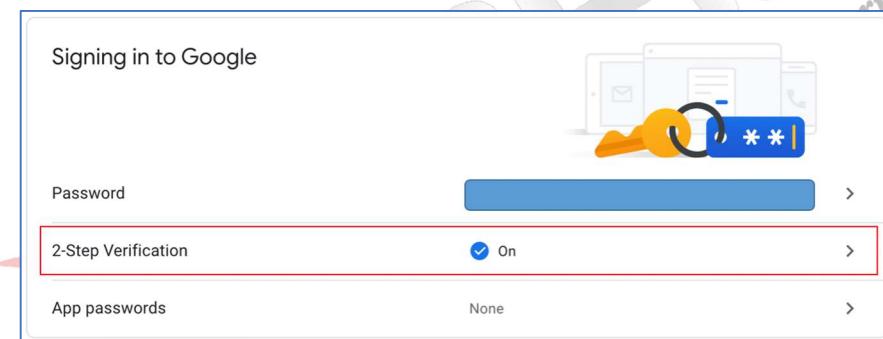
- Click the account icon in the upper right corner, select **Manage your Google Account**.



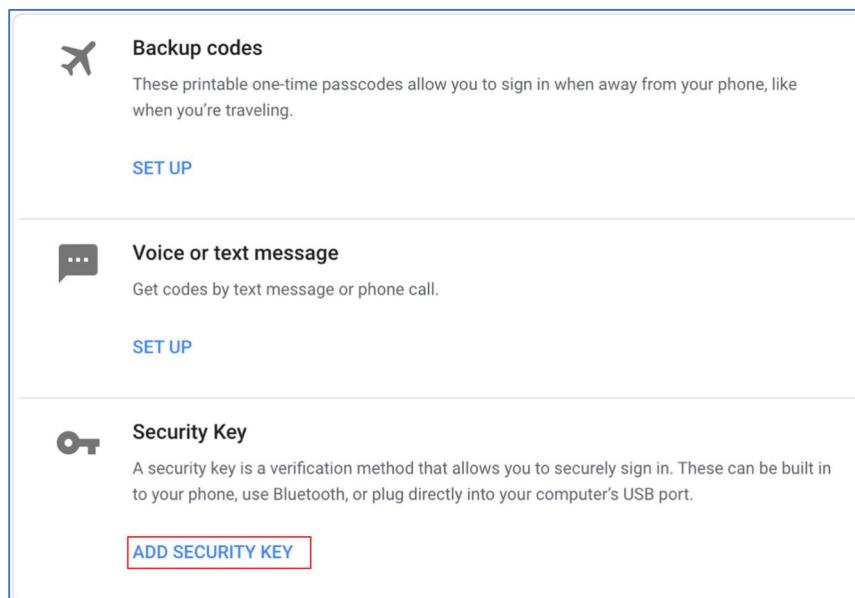
- Select **Security** on the left menu.



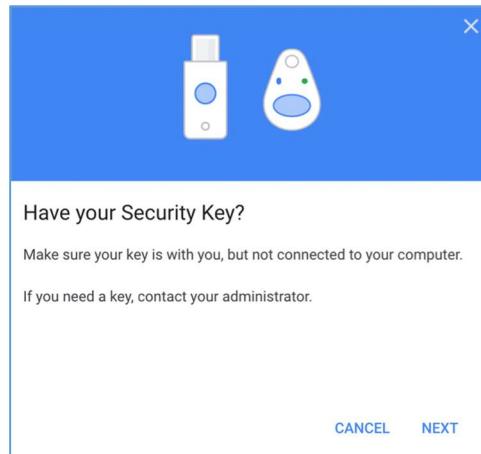
- Select **2-Step Verification** to enable two-factor authentication.



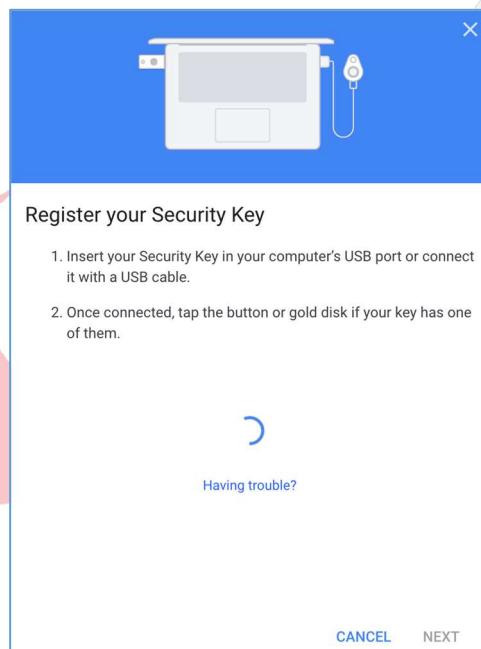
- Select **ADD SECURITY KEY** from the list of authentication method.



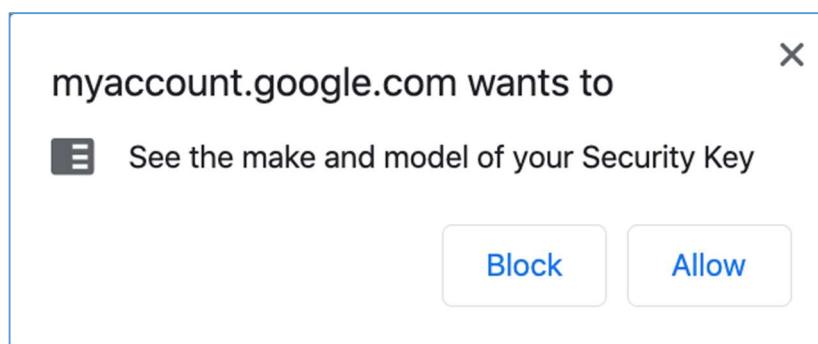
- Select **Next** to register security key.



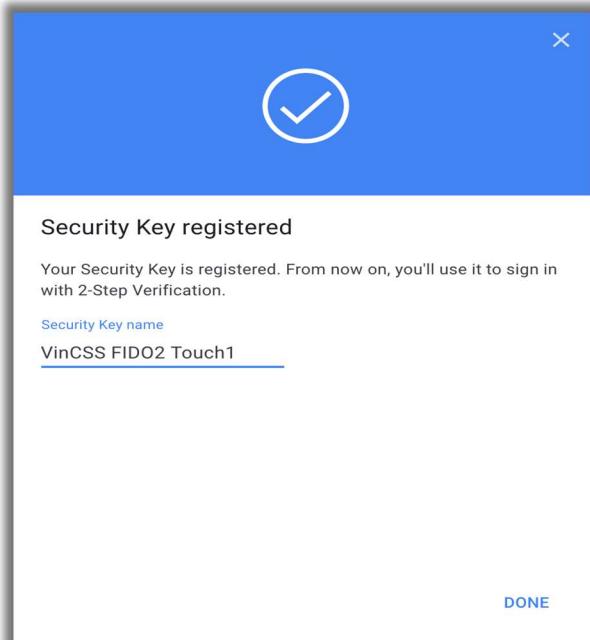
- When the **Register your Security Key** screen appears, plug in VinCSS FIDO2® Touch 1 to the computer.



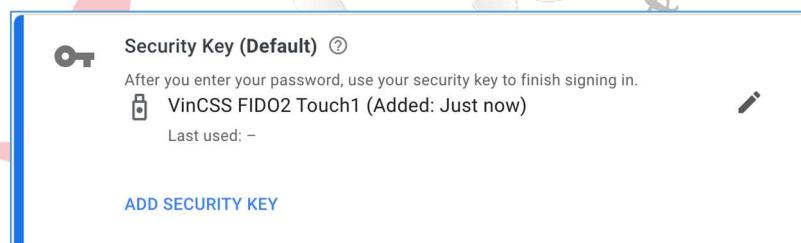
- At this step, browser may request to read security key information, select **Allow** to continue.



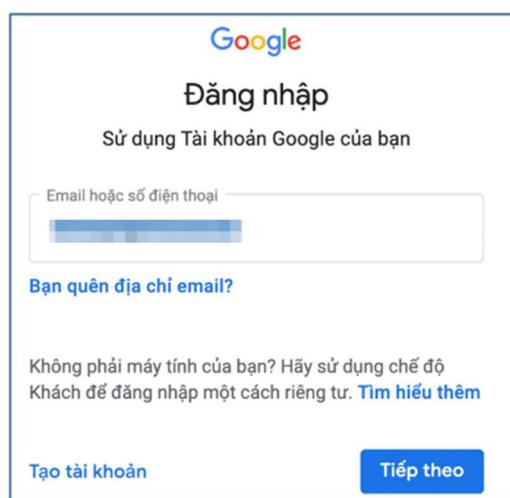
- Name the security key to identify the key in case user uses multiple keys for the account, press **Done** to confirm.



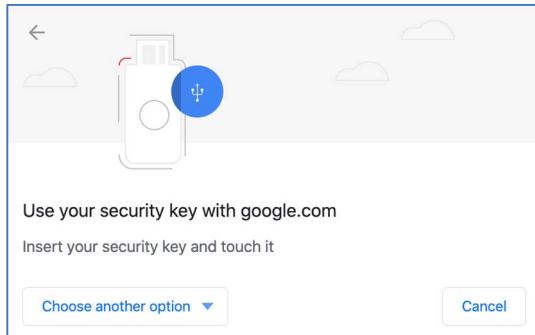
- Registration has completed, from now on all Google services will require user to login with both password and security key.



- To check the login flow, access <https://accounts.google.com> then login with username and password.



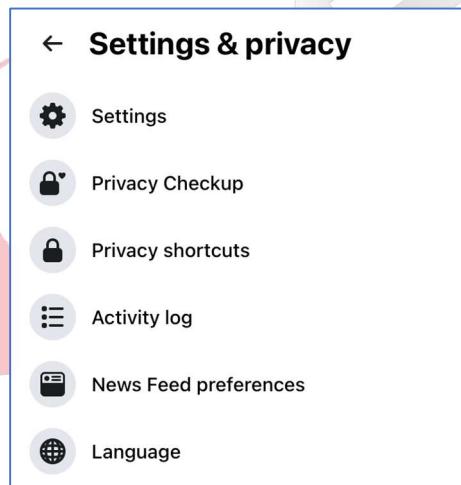
- After being authenticated with the password, browser requests user to authenticate with the security key. User plugs in VinCSS FIDO2® Touch 1 to computer, touch the logo on VinCSS FIDO2® Touch 1 to perform two-factor authentication.



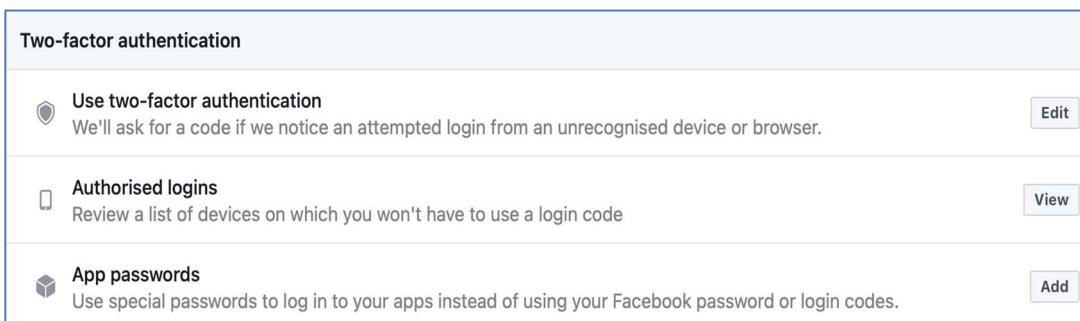
- Successful two-factor authentication, now user logged into account.

#### 4. Two-factor authentication with Facebook service

- Login to <https://facebook.com> then go to **Settings** and select **Security and Login** on the left menu.

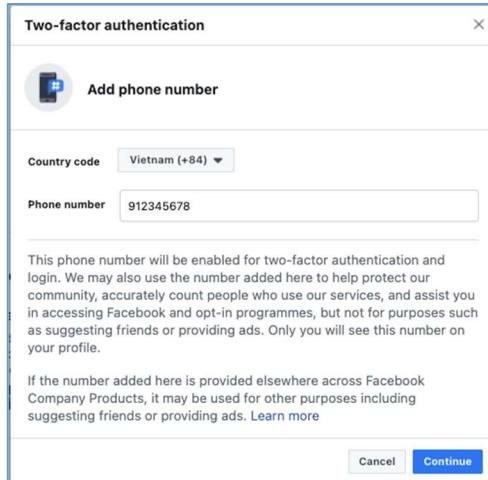


- In the **2-Factor Authentication** section, choose to edit **Use 2-Factor Authentication**.

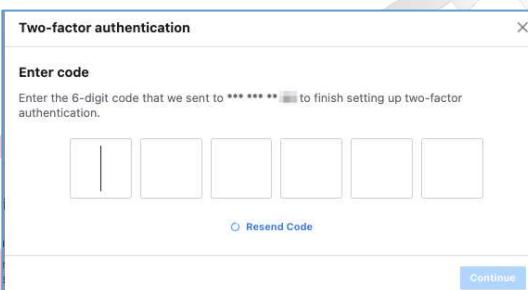


Two-factor authentication	
<input checked="" type="checkbox"/> Use two-factor authentication	We'll ask for a code if we notice an attempted login from an unrecognised device or browser.
<input type="checkbox"/> Authorised logins	Review a list of devices on which you won't have to use a login code
<input type="checkbox"/> App passwords	Use special passwords to log in to your apps instead of using your Facebook password or login codes.

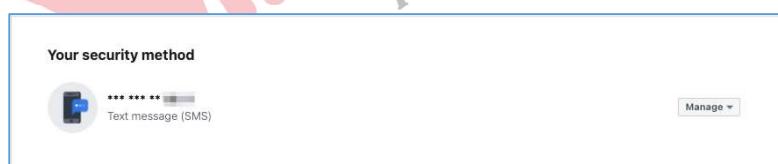
- If user hasn't enabled 2-factor authentication yet, user must choose to add authentication method via OTP on Google Authenticator app or SMS. The example below chooses to receive OTP via SMS.



- Enter the code sent to mobile phone.



- Successful verification:



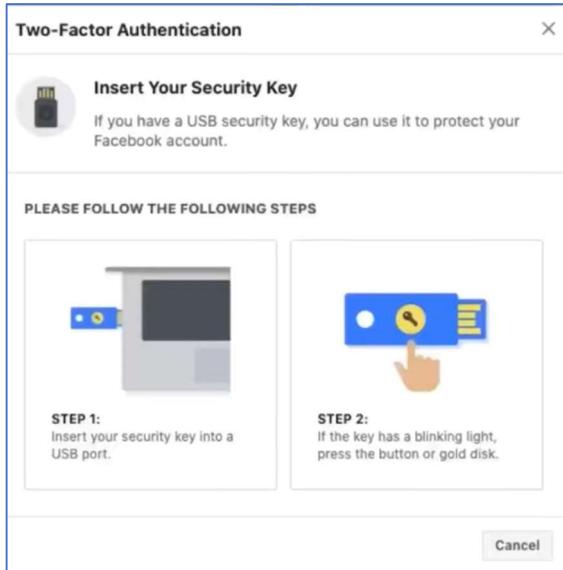
- Select **Security Key** under section **Add a Backup Method**.

### Add a Backup Method

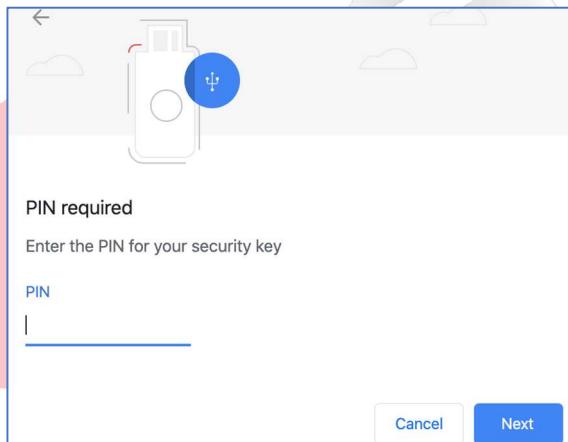
Set a backup method so you can log in even if your security method isn't available.

 <b>Authentication App</b> You'll receive a login code via an authentication app	<input type="button" value="Setup"/>
 <b>Security Key</b> If you have a Universal 2nd Factor (U2F) security key, you can log in through USB or NFC.	<input type="button" value="Setup"/>
 <b>Recovery Codes</b> Use recovery codes to log in if you lose your phone or can't receive a verification code via text message or an authentication app.	<input type="button" value="Setup"/>

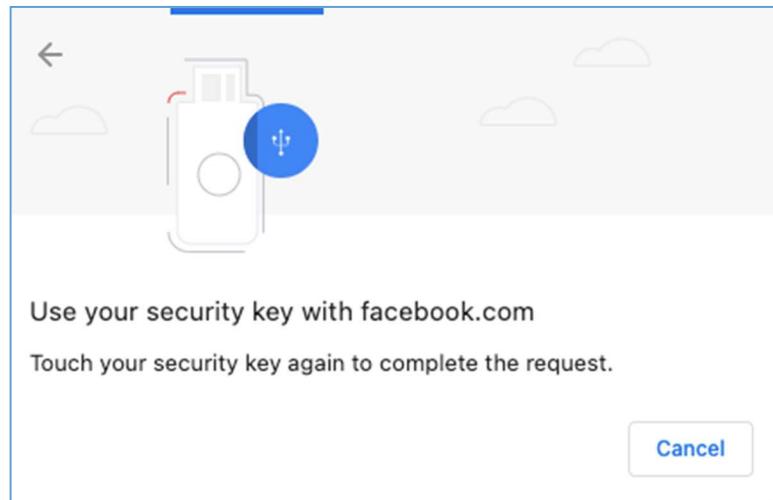
- Attach VinCSS FIDO2® Touch 1 to computer and touch the logo on security key.



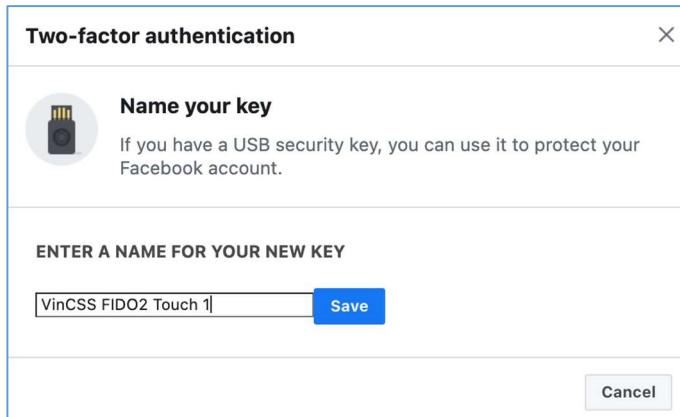
- Enter PIN code of VinCSS FIDO2® Touch 1 to authenticate, then click *Next*.



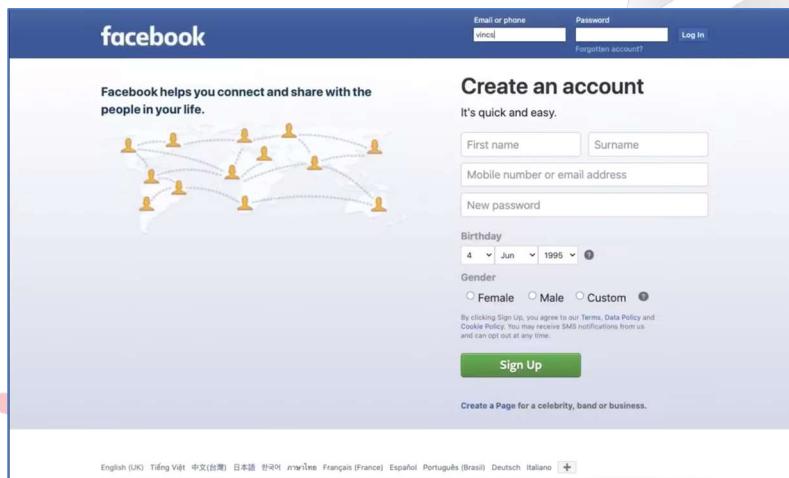
- Touch the logo on VinCSS FIDO2® Touch 1 to complete the registration.



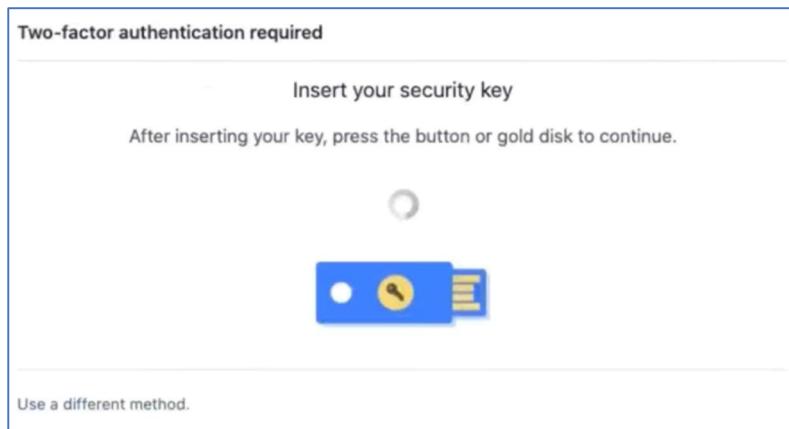
- Name the security key to identify the key in case user uses multiple keys for the account, click Save to confirm.



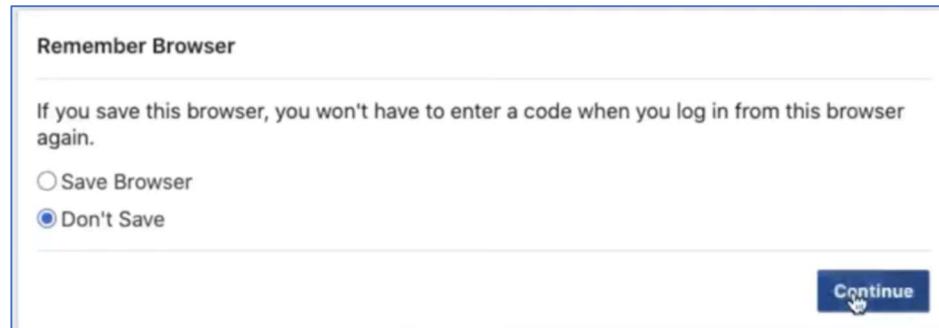
- To check the login flow, access <https://facebook.com> then login with username and password.



- After authenticated with password, browser requests user to authenticate with the security key. User plugs in VinCSS FIDO2® Touch 1 to computer, touches the logo on VinCSS FIDO2® Touch 1 to perform two-factor authentication.

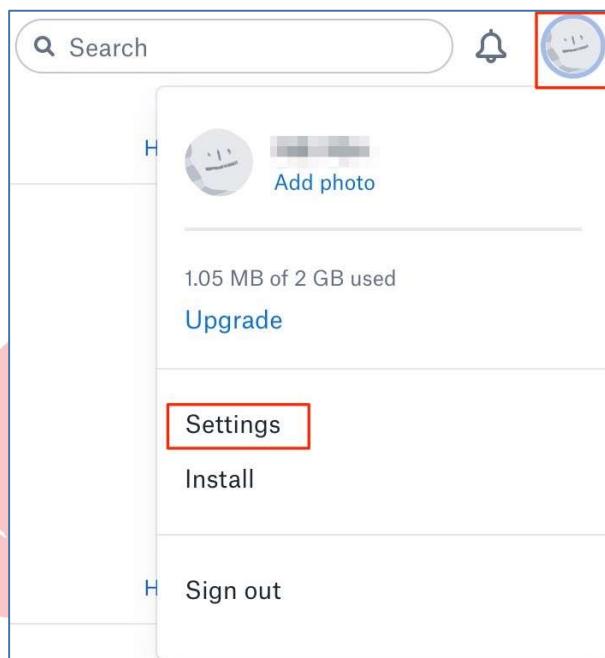


- Successful authentication.

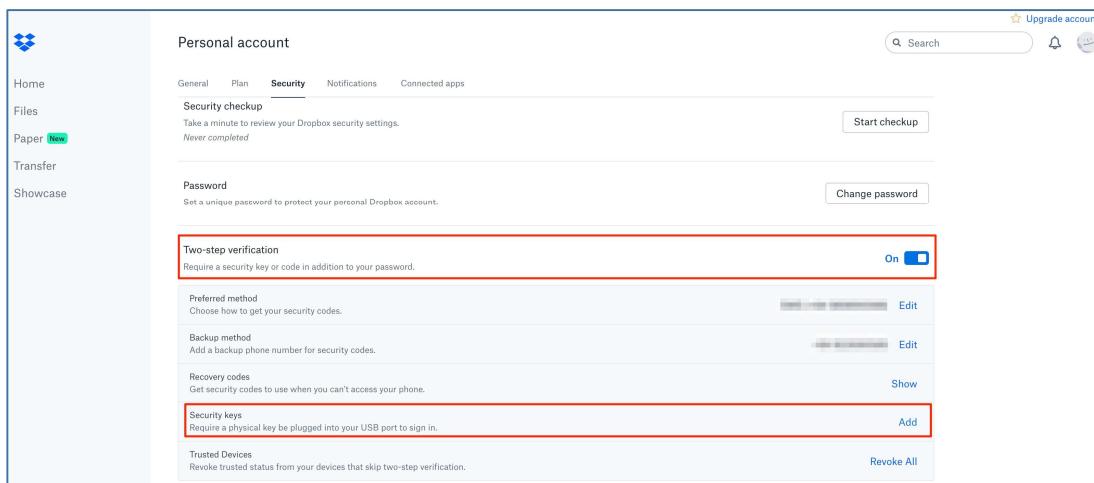


## 5. Two-factor authentication with Dropbox service

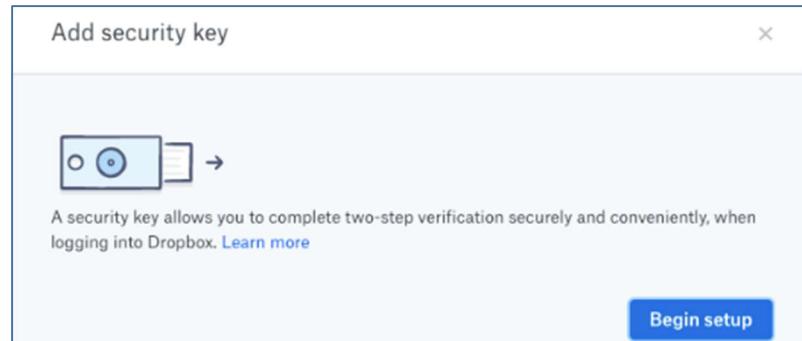
- Access to Dropbox service at <https://dropbox.com/>, login and select **Settings**.



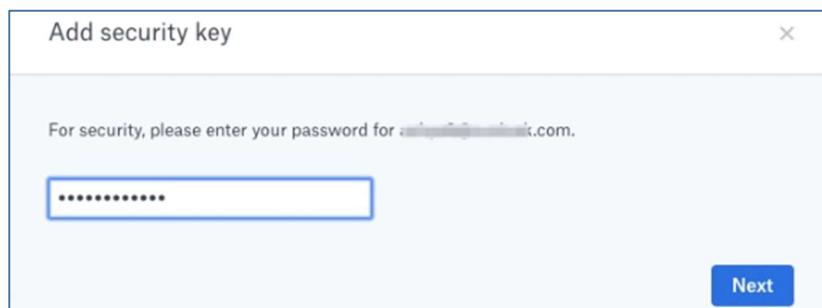
- At **Security**, turn on the **Two-step verification feature**, then select **Add** the **Security keys** feature.



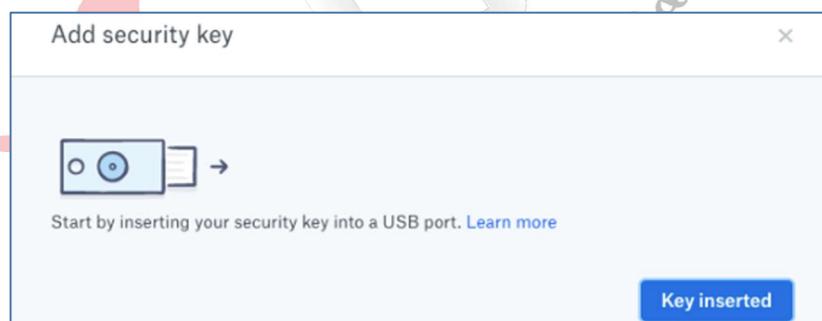
- Select **Begin setup** to start the registration process of VinCSS FIDO2® Touch 1.



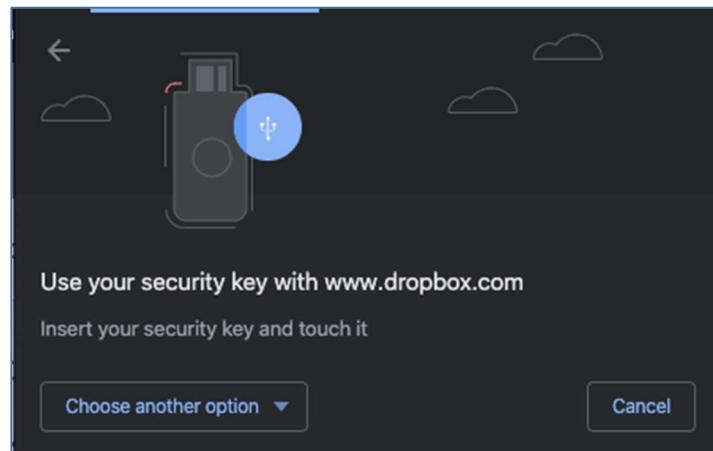
- Enter the password to proceed with the registration.



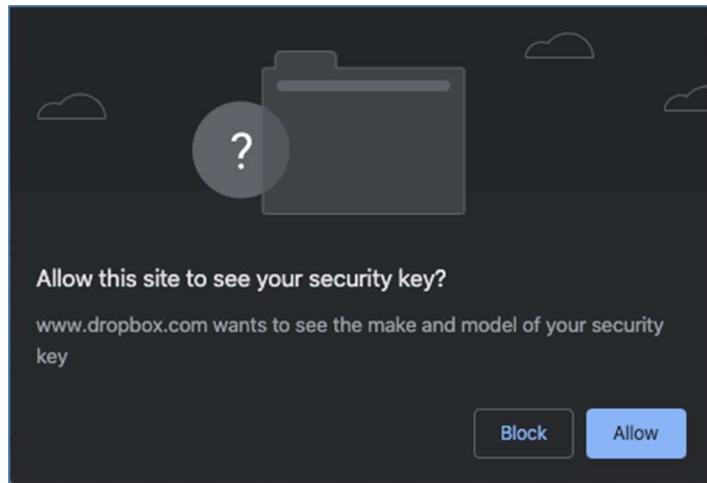
- Connect VinCSS FIDO2® Touch 1 to computer.



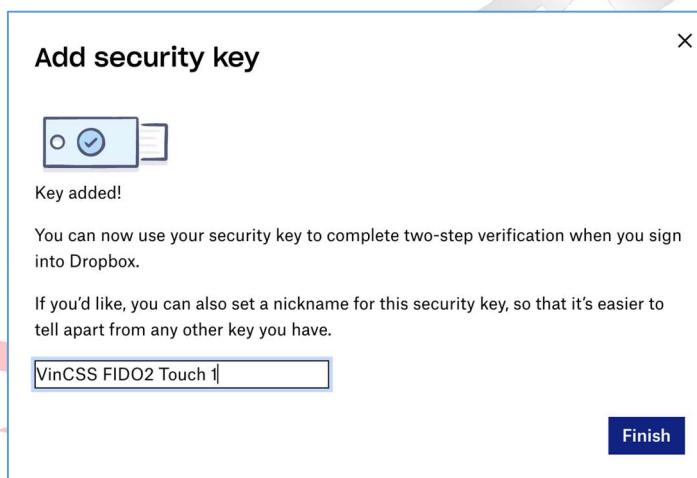
- Touch the yellow logo on VinCSS FIDO2® Touch 1.



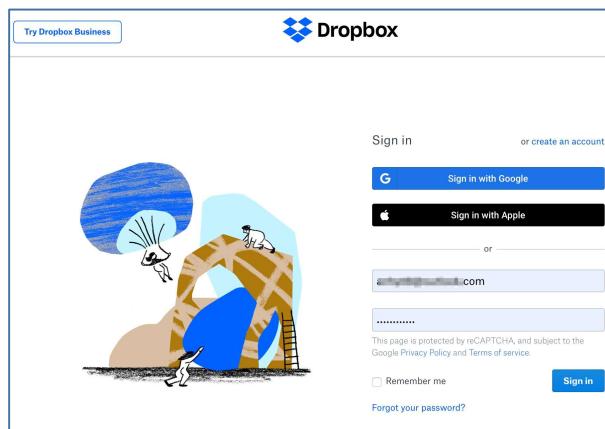
- At this step, browser may request to read security key information, select Allow to continue.



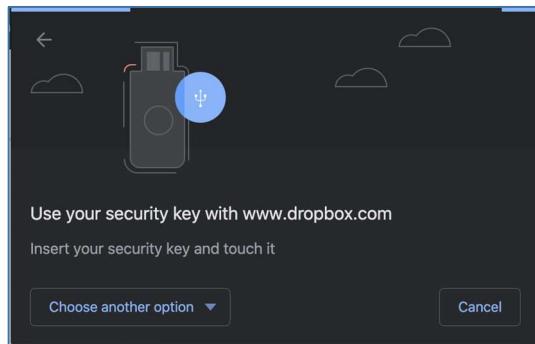
- Name the security key to identify the key in case user uses multiple keys for the account, click Finish to confirm.



- To check the login flow, access <https://dropbox.com> then login with username and password.

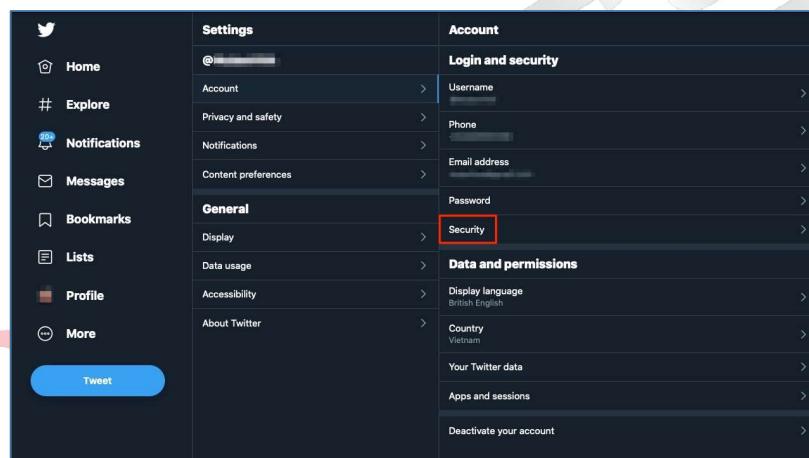


- After being authenticated with the password, browser requests user to authenticate with security key. User plugs in VinCSS FIDO2® Touch 1 to computer, touches the logo on VinCSS FIDO2® Touch 1 to perform two-factor authentication.

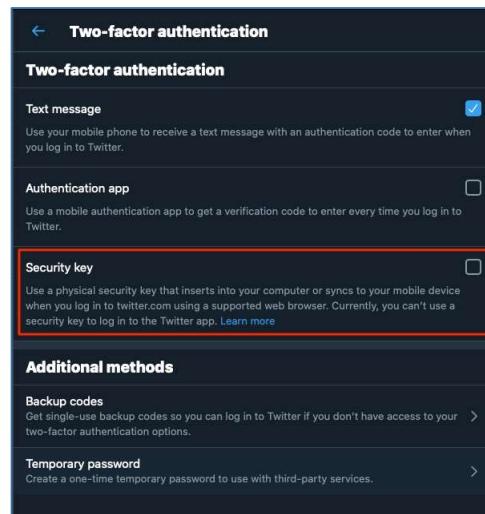


## 6. Two-factor authentication with Twitter service

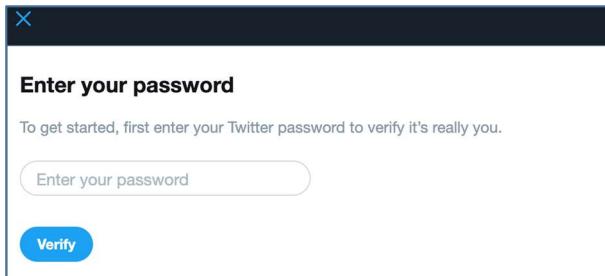
- Access <https://twitter.com>, login into account. Choose **More > Setting and Privacy > Security**.



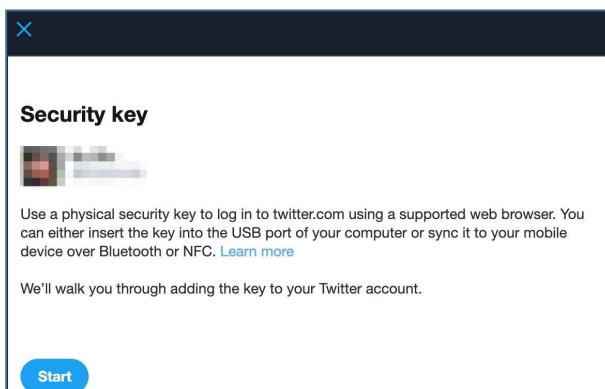
- At **Security** section, select **Two-factor authentication** and check the **Security Key** feature.



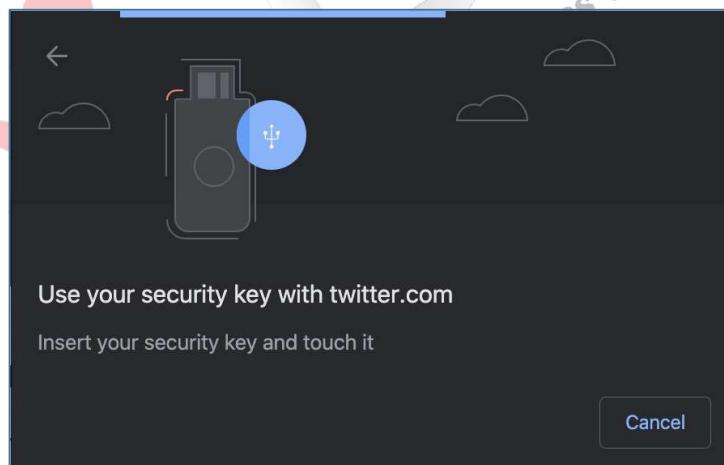
- Enter the login password and select **Verify** to confirm the registration process.



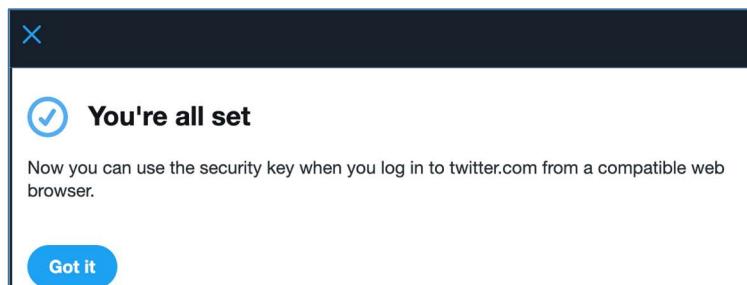
- Select **Start** to start registration.



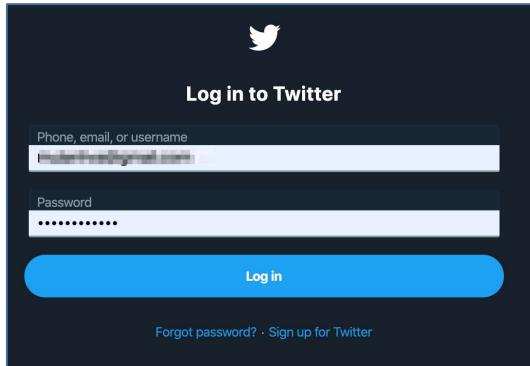
- Connect VinCSS FIDO2® Touch 1 to computer, then touch the yellow logo on VinCSS FIDO2® Touch 1.



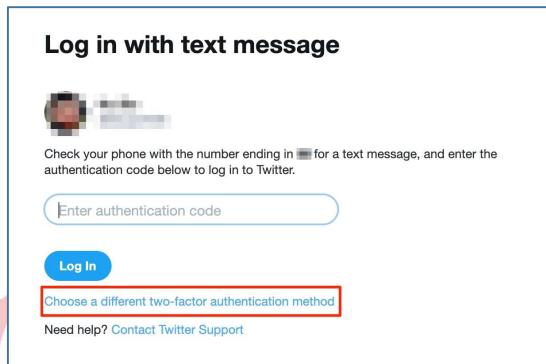
- Successful registration, select **Got it** to finish.



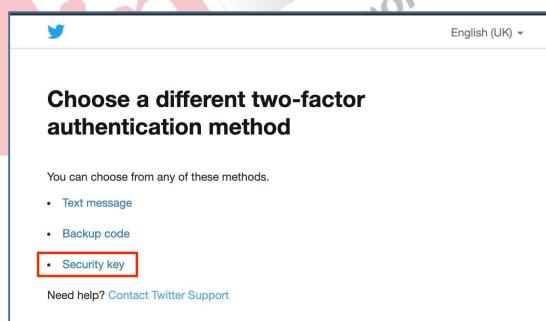
- To check the login flow, access <https://twitter.com/> then login with username and password.



- Select ***Choose a different two-factor authentication method***.



- Select ***Security key***.



- Connect VinCSS FIDO2® Touch 1 to the computer, then touch the yellow logo on VinCSS FIDO2® Touch 1 to complete the login process.

