

USER GUIDE ON VINCSS FIDO2[®] TOUCH 1

Date: 09/12/2020

ID number: CSS-PD-EXT-201209-034

Version: 1.2

Document Type: Public document

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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



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1. INTRODUCE 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.



VinCSS FIDO2® Touch 1 currently supports popular browsers such as *Chrome, Edge, Edge Chromium, Firefox, Safari*.

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

2. MANAGE PIN CODE

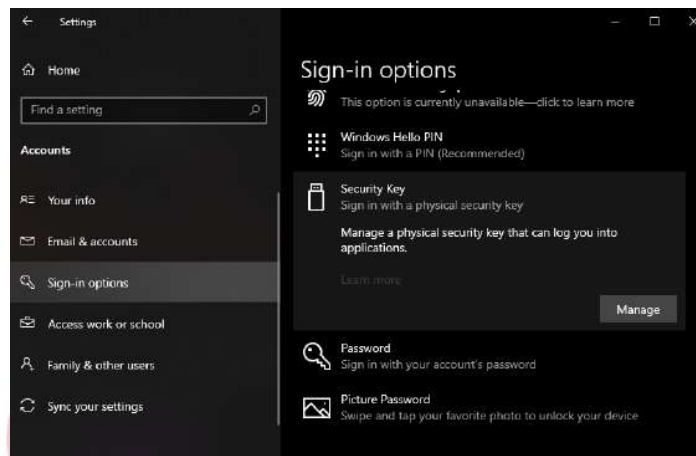
The PIN code for VinCSS FIDO2[®] Touch 1 is set to prevent unauthorized use or protect the key in case its lost. To create, change or reset PIN code for VinCSS FIDO2[®] Touch 1, please follow the steps below.

2.1. Windows Platform

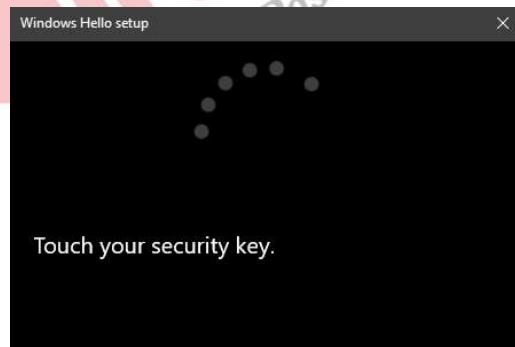
Note: For Windows 10 version older than 1803, operations to manage security key will be performed on Chrome browser (same as macOS platform).

2.1.1. Create a new PIN code for VinCSS FIDO2[®] Touch 1

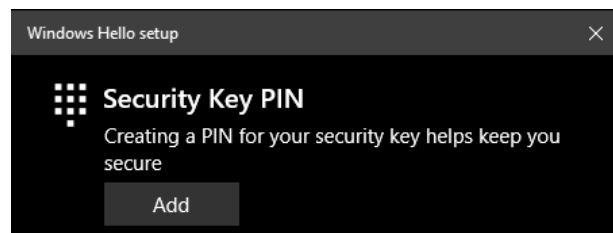
- Access **Start > Settings**
- Select **Account > Sign-in options > Security Key**. Then click the **Manage** button



- 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**

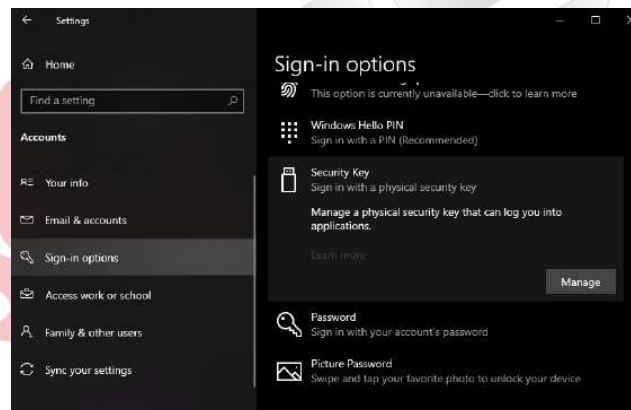


- Input the PIN code, then click **OK**

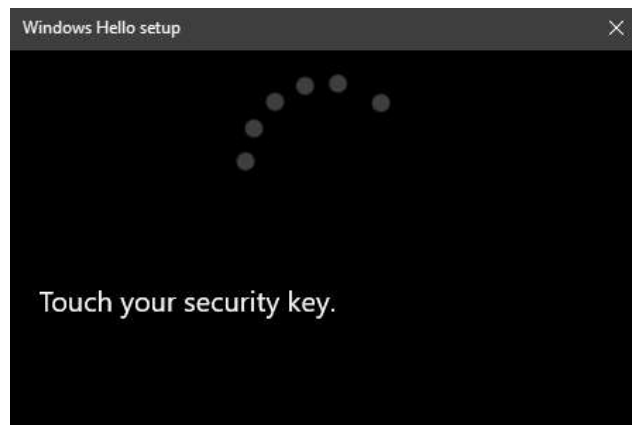


2.1.2. Change PIN code for VinCSS FIDO2® Touch 1

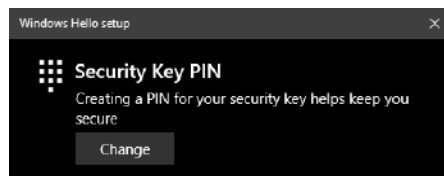
- Access **Start > Settings**
- Select **Account > Sign-in options > Security Key**. Then click the **Manage** button



- 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**

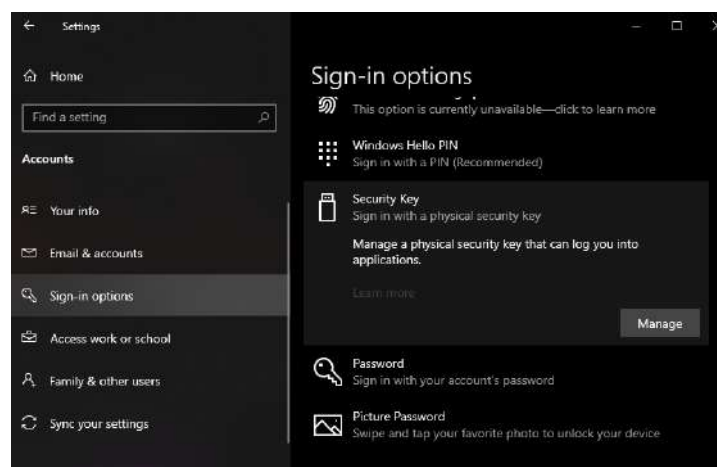


2.1.3. Reset PIN code for VinCSS FIDO2® Touch 1

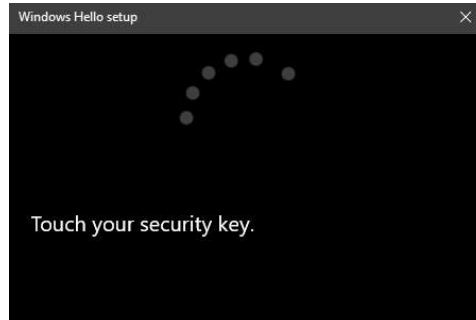
In the case of forgetting the PIN code of VinCSS FIDO2® Touch 1, user can reset the PIN, that means user's security key credentials are removed, and user needs to re-register the key as new key. In case the PIN code is entered incorrectly many times (more than 8 times), the device will be locked permanently,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

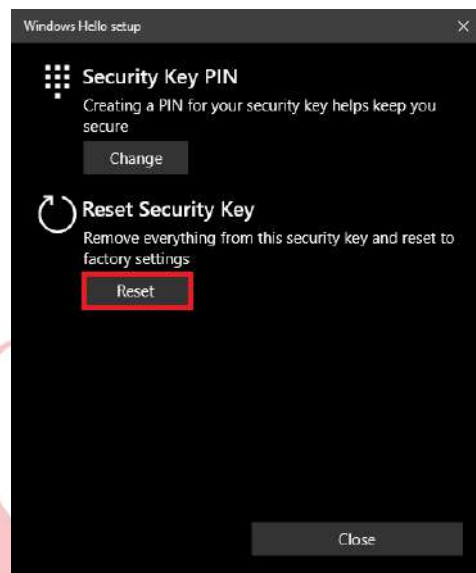
- Access **Start > Settings**
- Select **Account > Sign-in options > Security Key**. Then click the **Manage** button



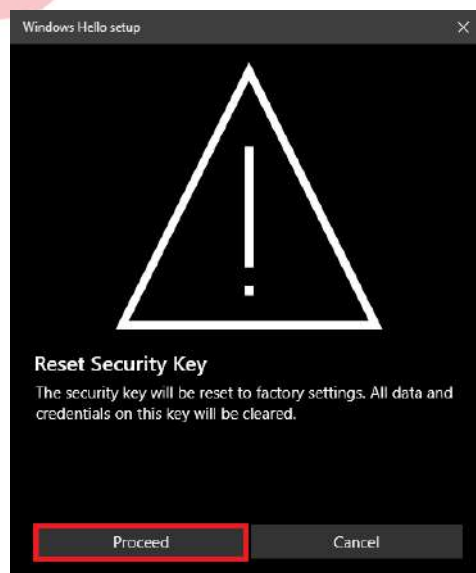
- Touch the yellow logo on the security key



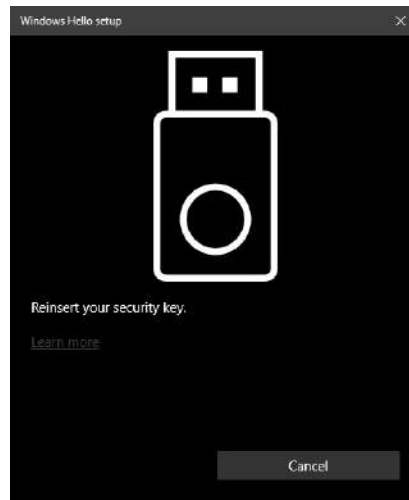
- In section *Reset Security Key*, click *Reset*



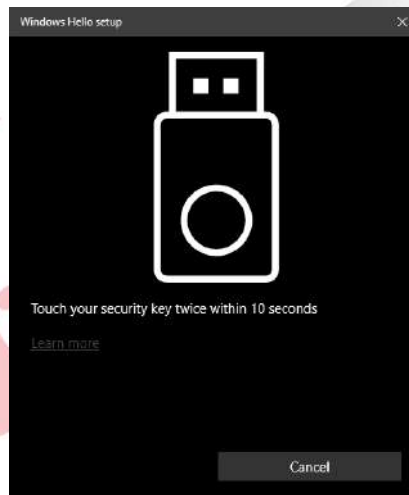
- Press *Proceed* to reset PIN code for VinCSS FIDO2® Touch 1



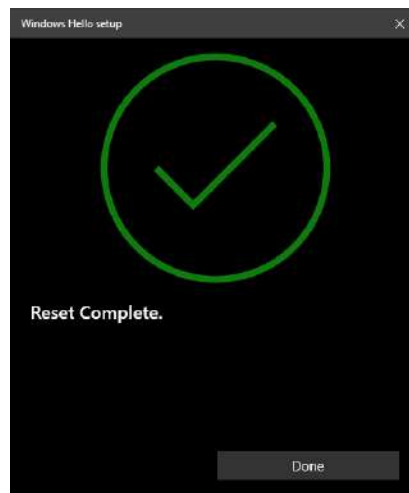
- Unplug the VinCSS FIDO2® Touch 1 security key from the computer, then plug it in again



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



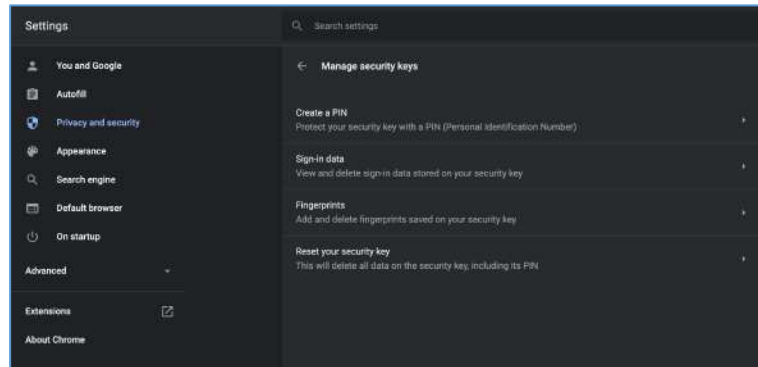
- PIN code reset is successful



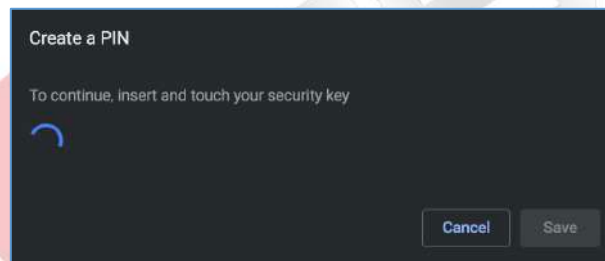
2.2. macOS Platform

2.2.1. Create a new PIN code for VinCSS FIDO2® Touch 1

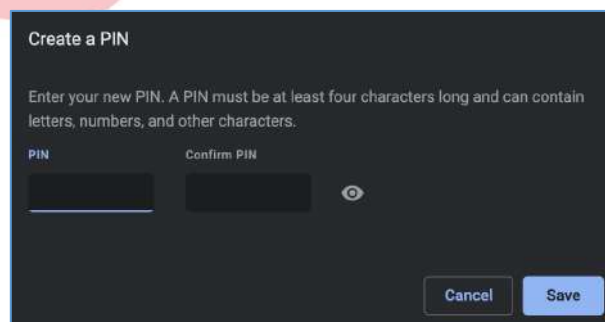
- Open Chrome browser, go to **Setting > Privacy and Security > More > Manage security keys**



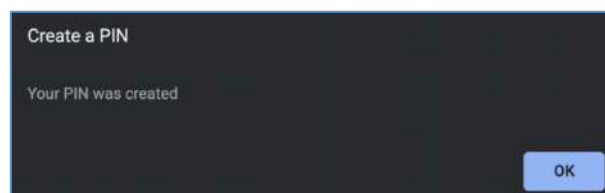
- Initial default, VinCSS FIDO2® Touch 1 has no PIN. To set PIN code for VinCSS FIDO2® Touch 1, on the **Manage security keys** interface, click **Create a PIN**, then touch the yellow logo to confirm



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

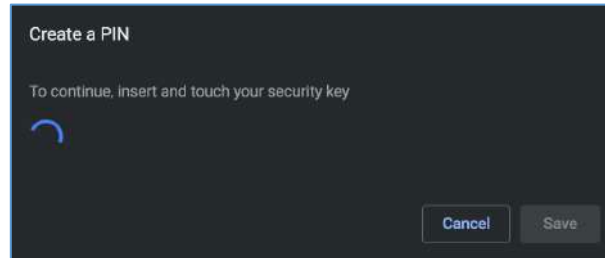


- Click **OK** to finish setting the PIN code for VinCSS FIDO2® Touch 1

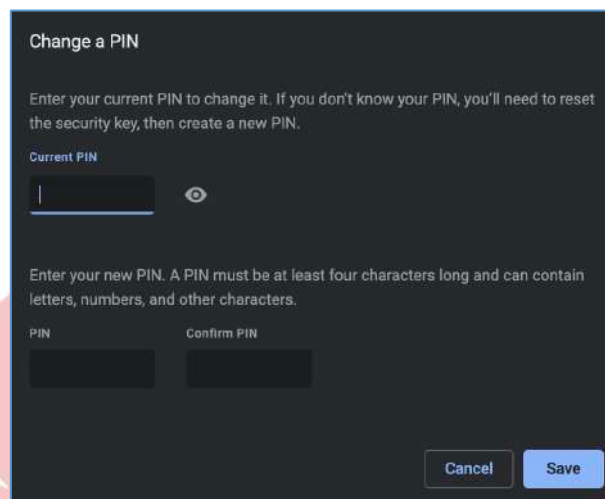


2.2.2. Change PIN code for VinCSS FIDO2® Touch 1

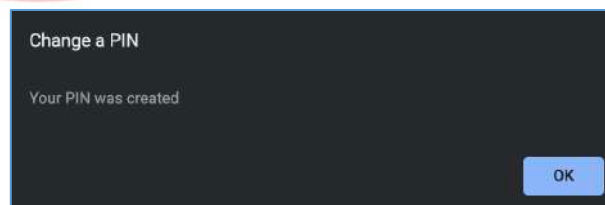
- To change the PIN code for VinCSS FIDO2® Touch 1, on the **Manage security keys** interface, select **Create a PIN** and touch the yellow logo to confirm



- 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

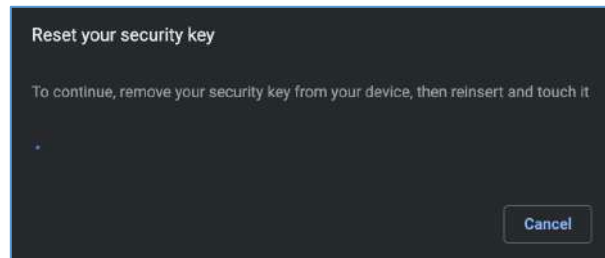


2.2.3. Reset PIN code for VinCSS FIDO2® Touch 1

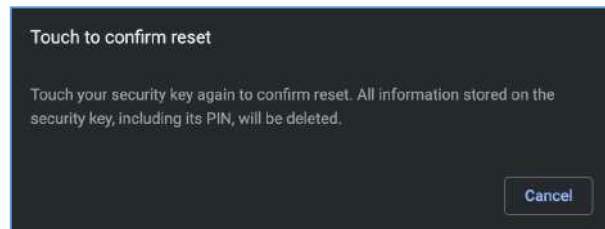
In the case of forgetting PIN code of VinCSS FIDO2® Touch 1, user can reset the PIN, that means user security key credentials are removed, and the user needs to re-register the key as a new key. In case the PIN code is entered incorrectly many times (more than 8 times), the device will be locked permanently,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



2.3. 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).

2.3.1. 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:

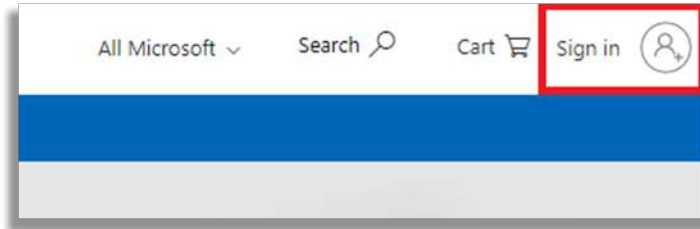
```
sudo udevadm control --reload-rules && sudo udevadm trigger
```

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

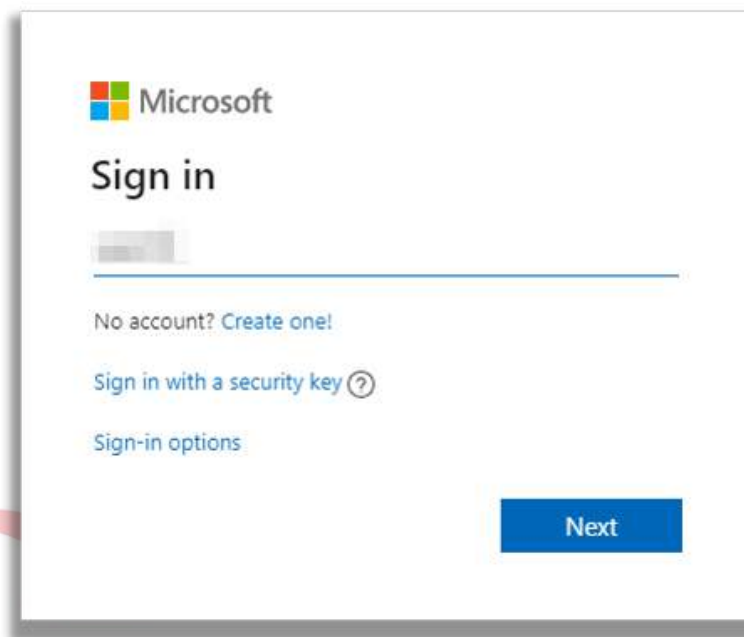
3. AUTHENTICATION WITH VINCSS FIDO2® TOUCH 1

3.1 Passwordless authentication for Microsoft service

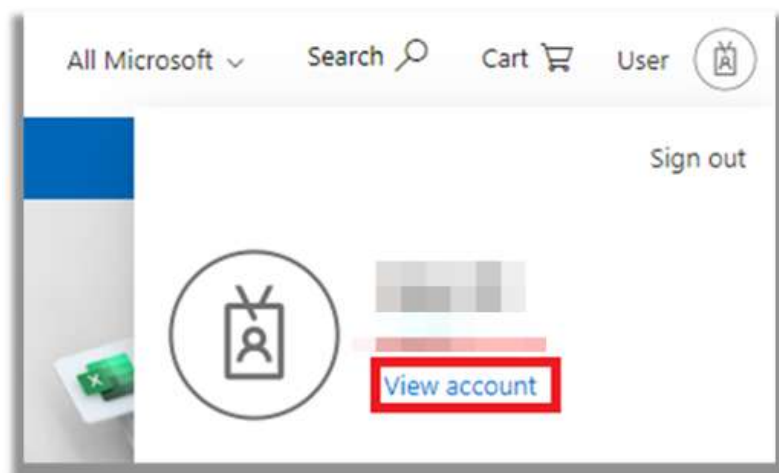
- Access <https://microsoft.com>, select **Sign in**



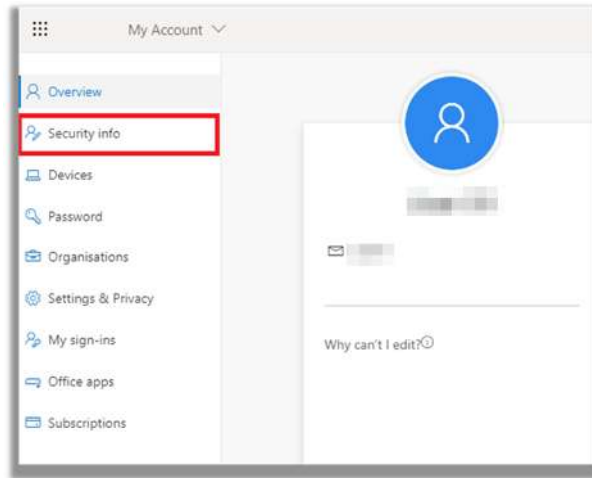
- Enter account information (username/password) to login



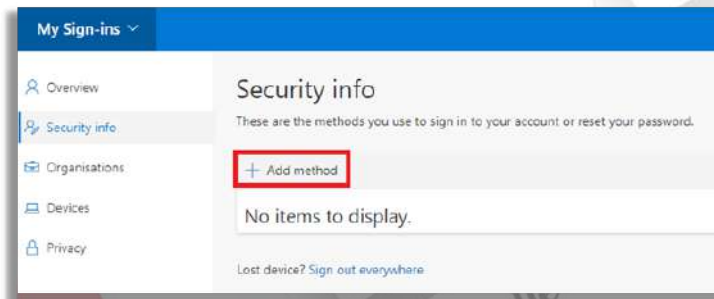
- After successful login, select **View account**



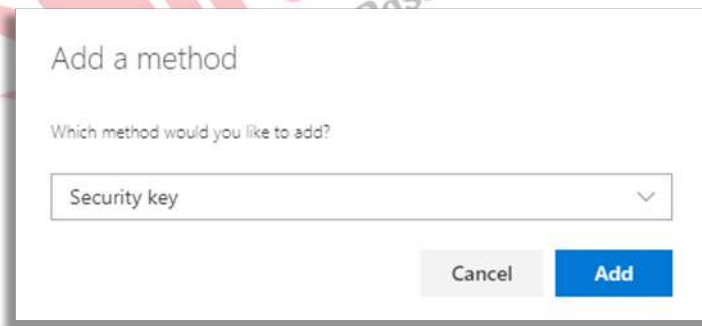
- Select **Security info** to change security settings



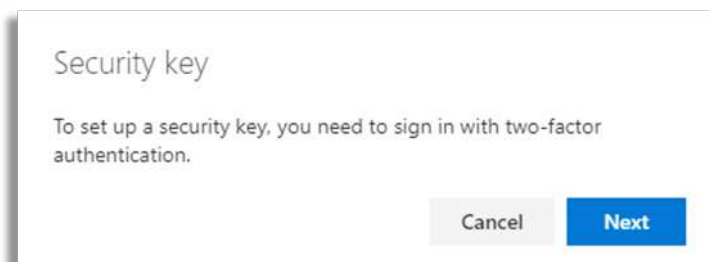
- Select **Add method** to add login method



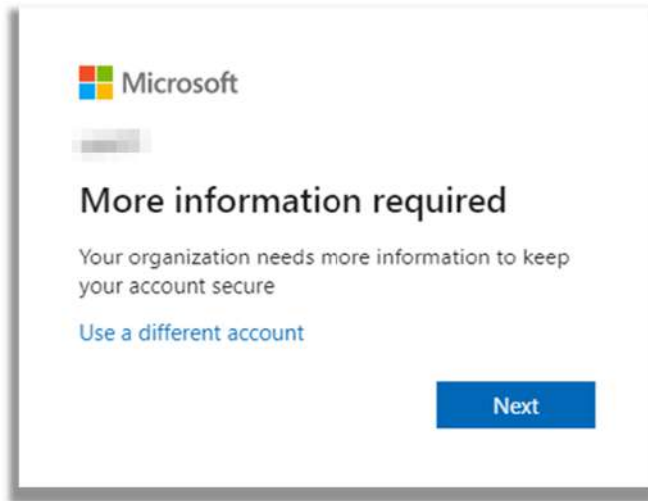
- Select **Security key** from the list and press the **Add** button



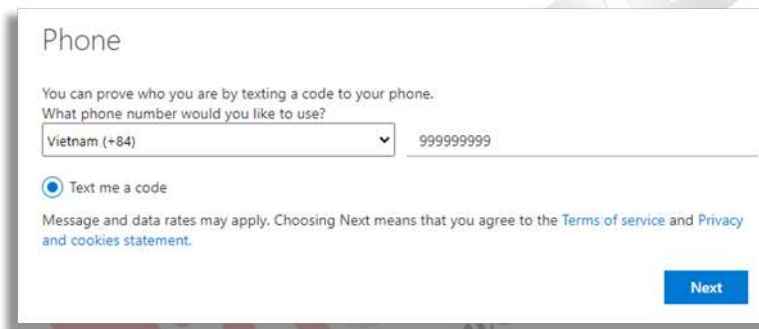
- To use security key, Microsoft requires to setup two-factor authentication first. Click **Next** to activate two-factor authentication



- Select *Next* to continue



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



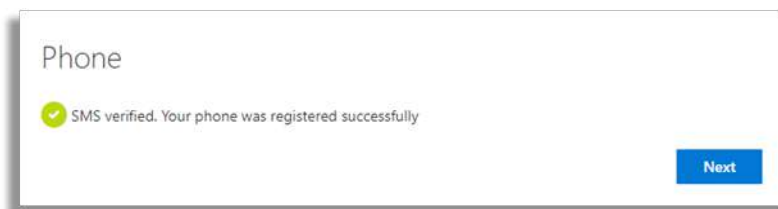
A screenshot of the "Phone" setup screen. The title is "Phone". Below it, it says "You can prove who you are by texting a code to your phone." and "What phone number would you like to use?". There is a dropdown menu showing "Vietnam (+84)" and a text input field containing "999999999". Below that is a radio button selected for "Text me a code". At the bottom right is a blue button labeled "Next".

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



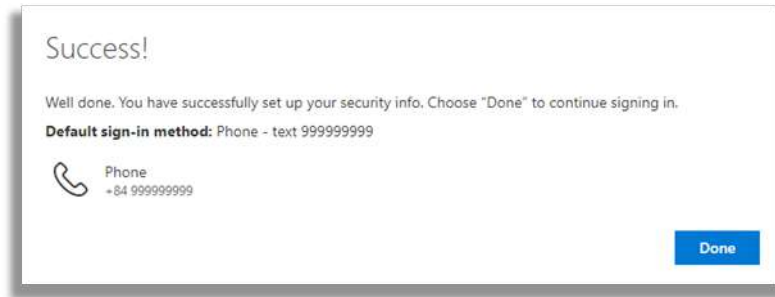
A screenshot of the "Phone" verification screen. The title is "Phone". Below it, it says "We just sent a 6-digit code to +84 999999999. Enter the code below." There is a text input field containing "123456". Below that is a link "Resend code" in blue. At the bottom right are two buttons: "Back" (disabled) and "Next" (active).

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

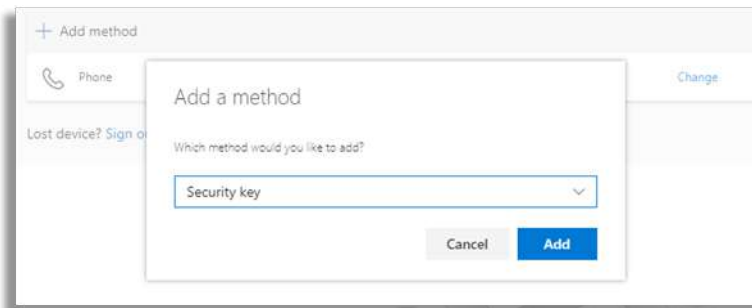


A screenshot of the "Phone" screen showing a success message. The title is "Phone". Below it, there is a green checkmark icon followed by the text "SMS verified. Your phone was registered successfully". At the bottom right is a blue button labeled "Next".

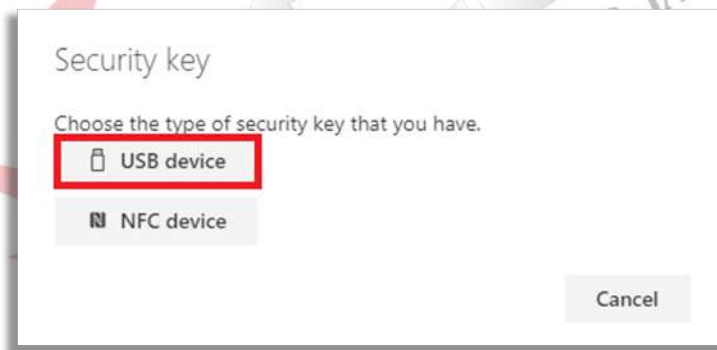
- Confirm registered information, click **Done** to return to the **Security info** page



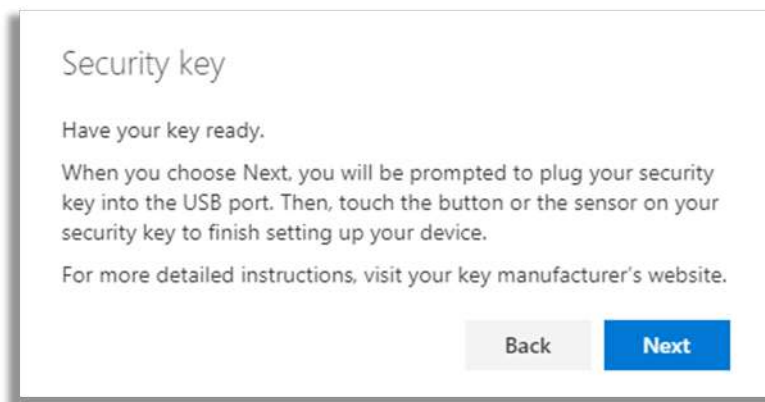
- Select **Add method** > **Security Key**, then click **Add**



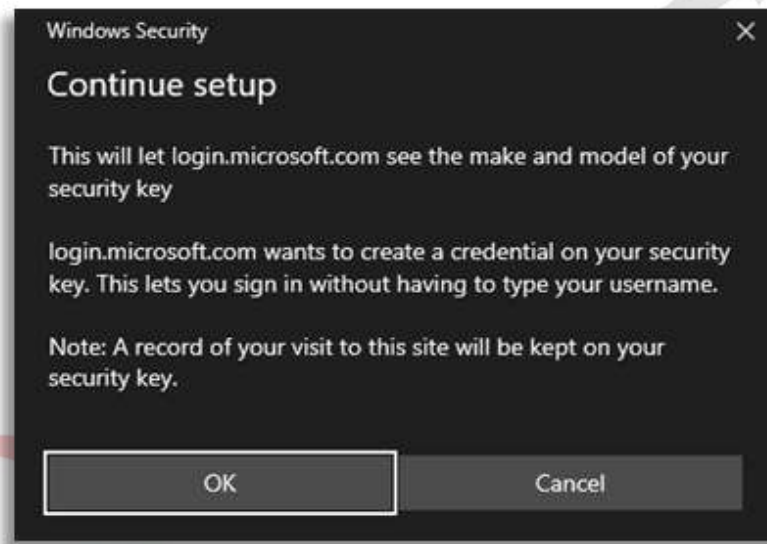
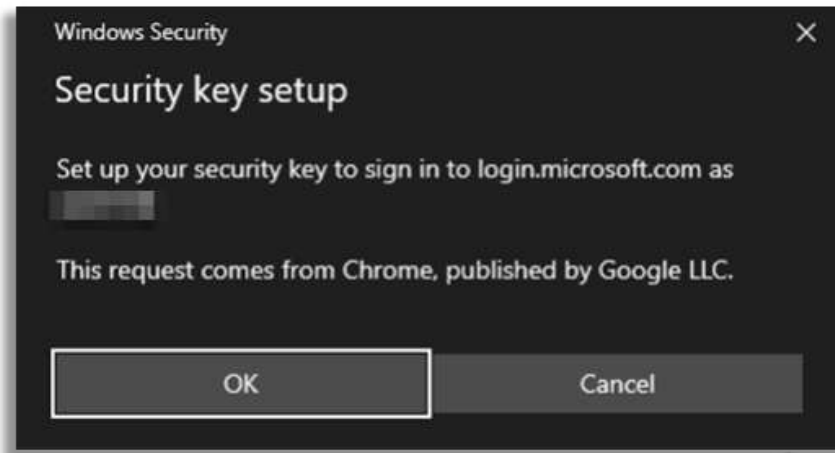
- Select **USB device**



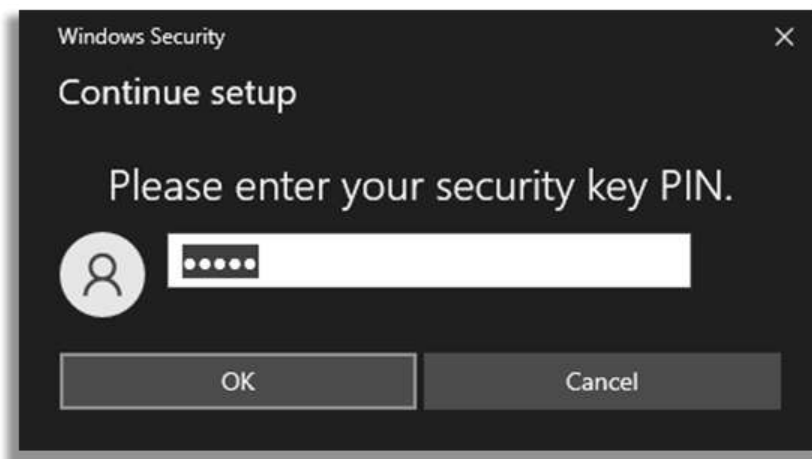
- Plug in VinCSS FIDO2[®] Touch 1 to the computer and select **Next**



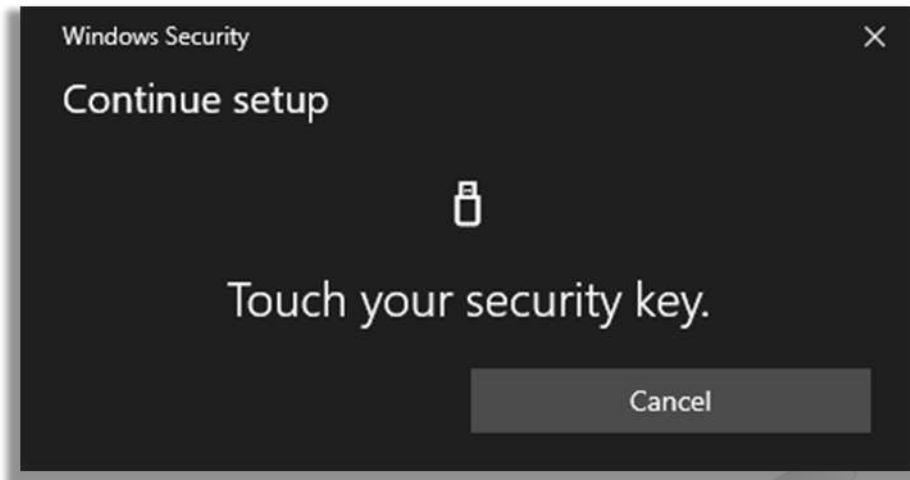
- Click **OK** in the next message



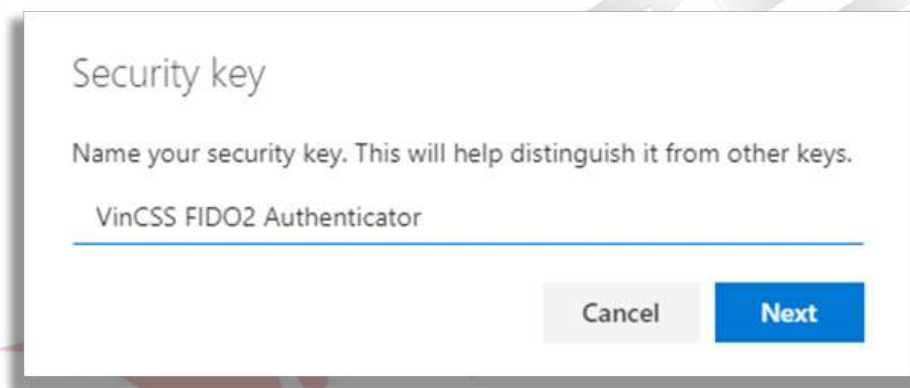
- Enter the PIN code set up earlier and press **OK**



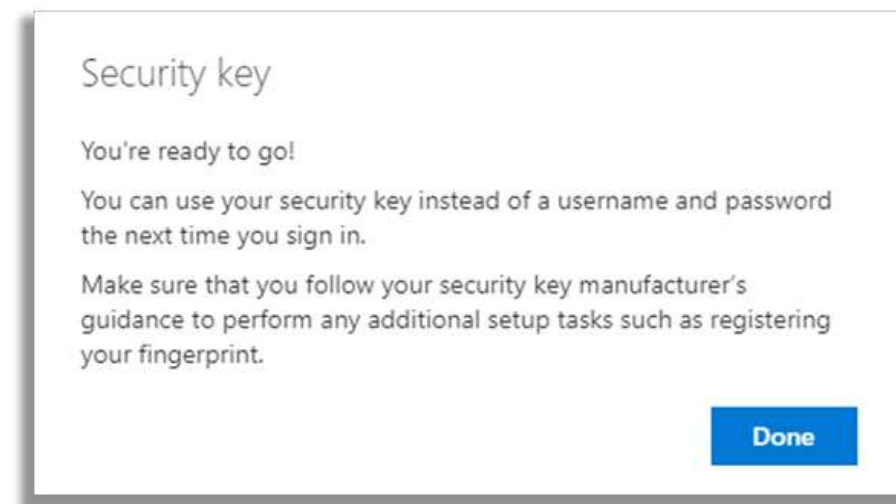
- Tap the yellow logo on VinCSS FIDO2® Touch 1 to continue



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

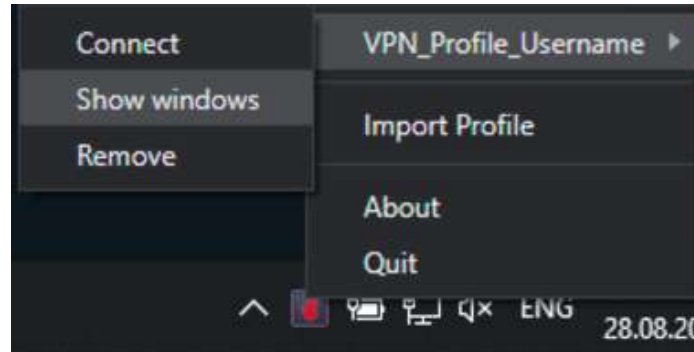


- Click **Done** to complete the Security key registration

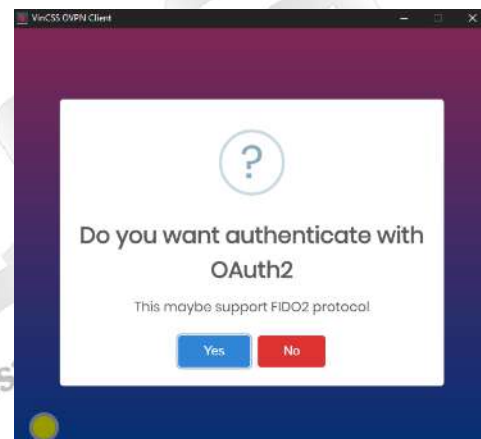
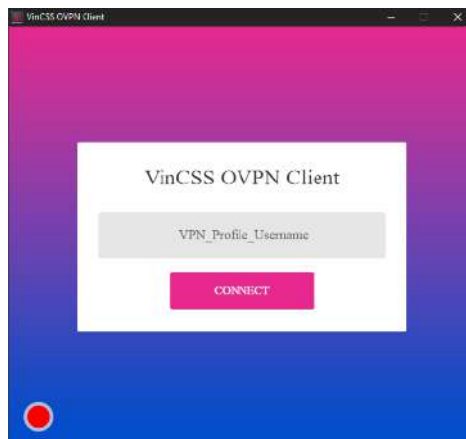


3.2. Passwordless authentication with OVPN service

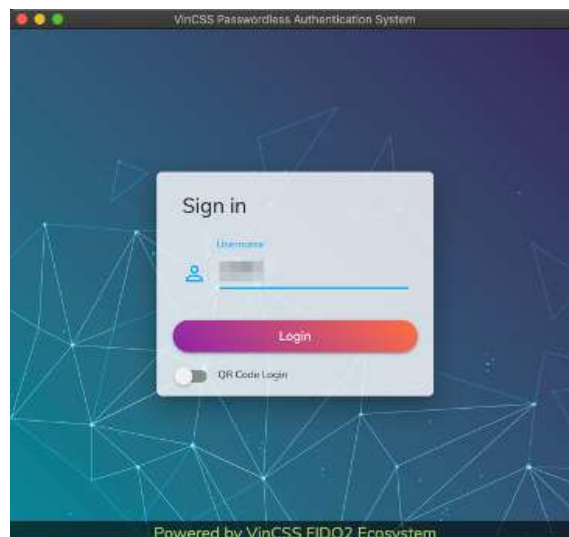
- Right-click on the VinCSS OVPN Client icon on the taskbar or tray bar, select the imported profile, then select **Show windows**



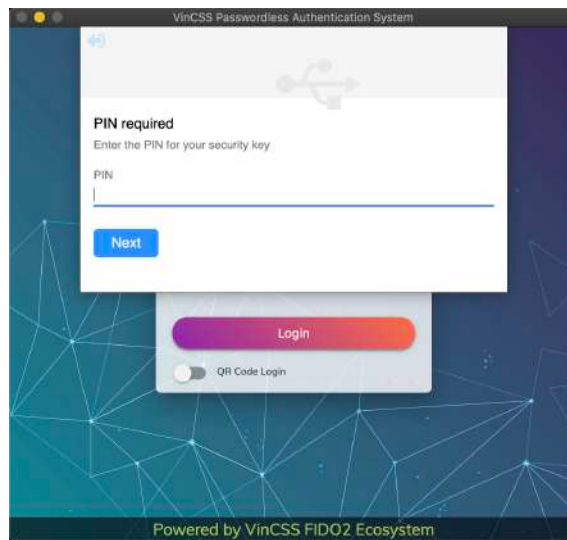
- On VinCSS OVPN Client interface, select **Connect** > **Yes** (to authenticate with VinCSS FIDO2® Touch 1)



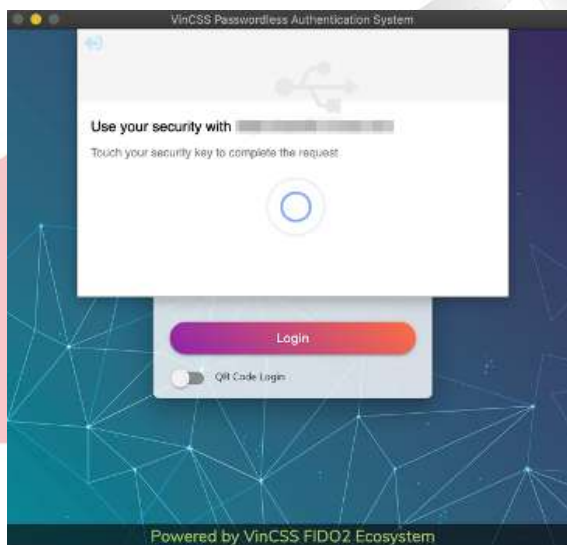
- Enter Username, then select **Login**. Next, plug in the VinCSS FIDO2® Touch 1 to the computer



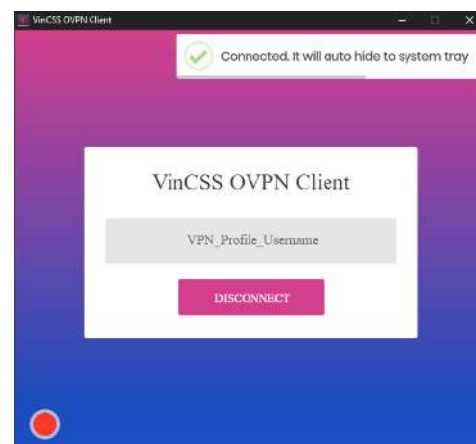
- Enter the PIN code of VinCSS FIDO2® Touch 1 and select *Next*



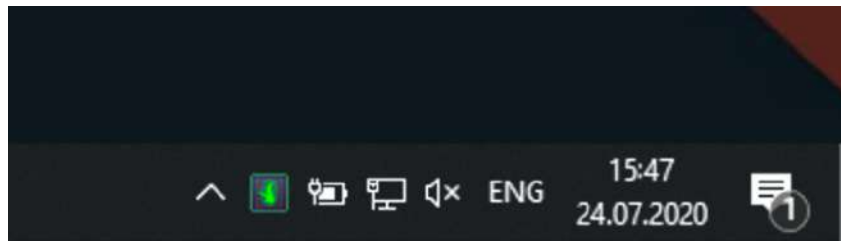
- Then, touch the yellow logo on the VinCSS FIDO2® Touch 1 hard key



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

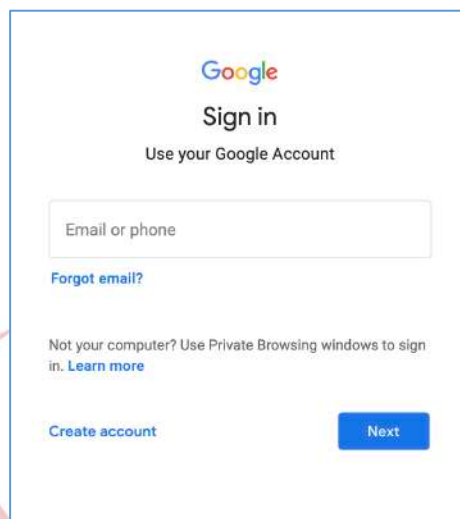


- VPN connection is successful. This window will auto-hide after a short period of time. On the tray bar will display a green app logo icon indicating a successful connection.

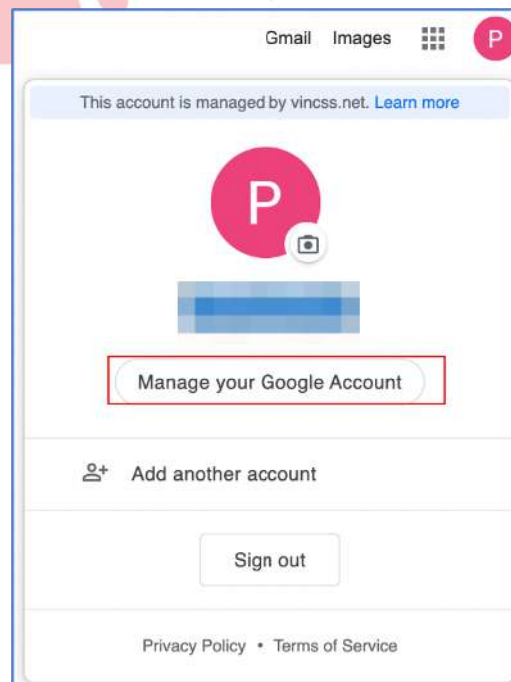


3.3. Two-factor authentication with Google service

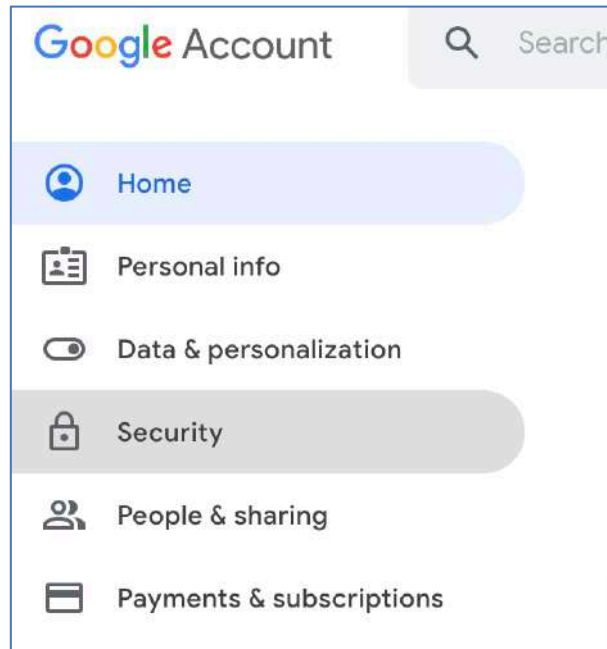
- Go to <https://accounts.google.com>, login with username and password



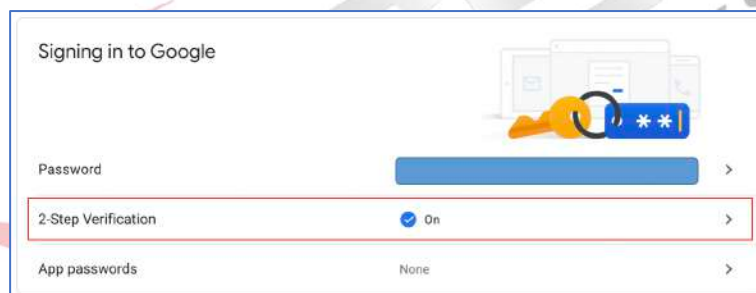
- Click the account icon in the upper right corner, select *Manage your Google Account*



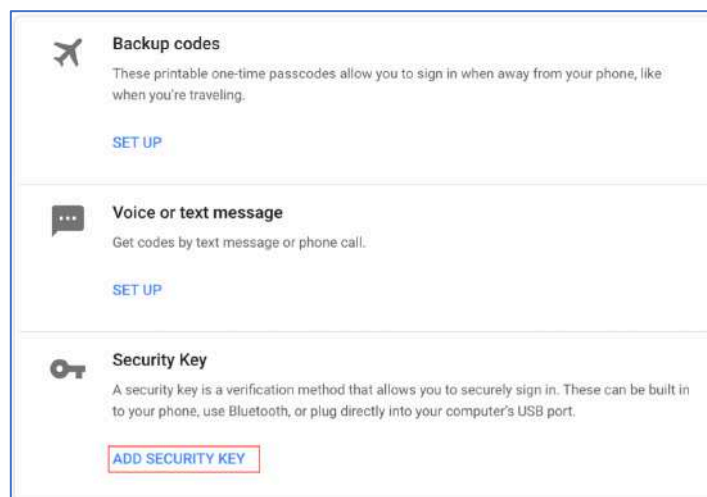
- Select **Security** on the left menu



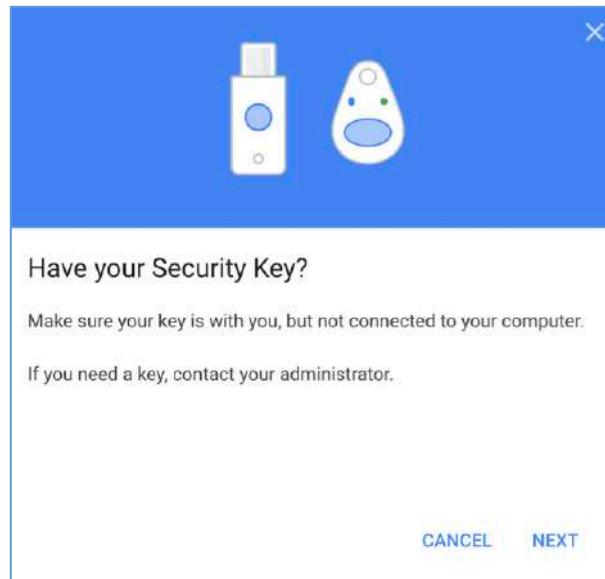
- Select **2-Step Verification** to enable two-factor authentication



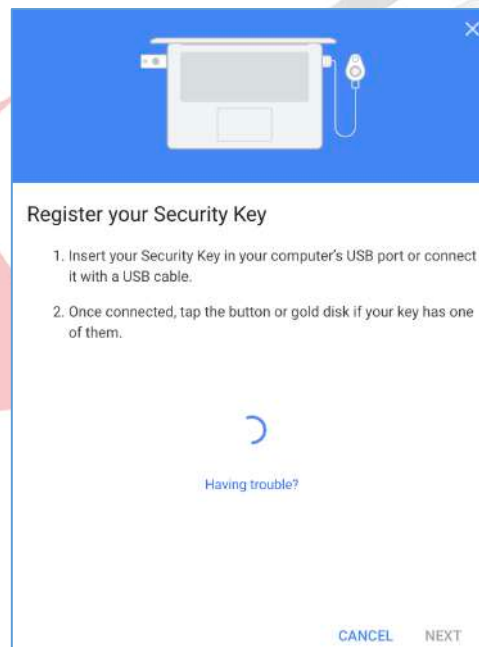
- Select **ADD SECURITY KEY** from the list of authentication method



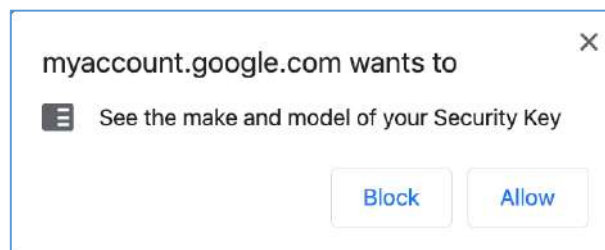
- Select **Next** to register security key



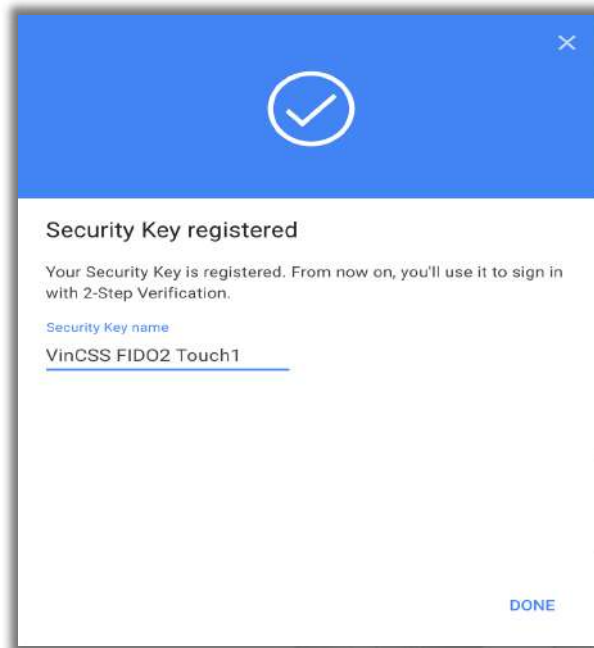
- When the **Register your Security Key** screen appears, plug in VinCSS FIDO2® Touch 1 to the computer



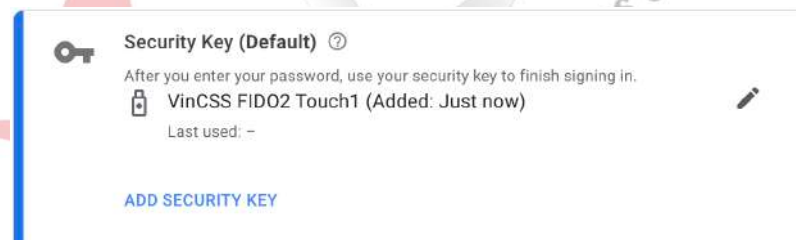
- At this step, browser may request to read security key information, select Allow to continue.



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



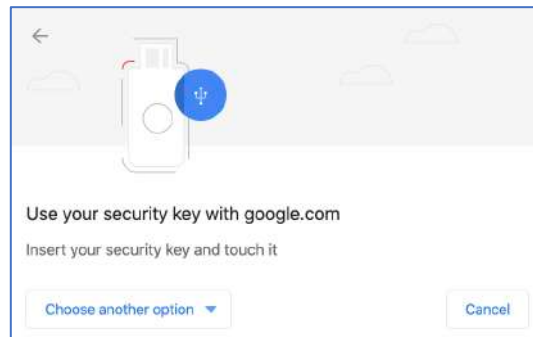
- Registration has completed, from now on all Google services will require user to login with both password and security key.



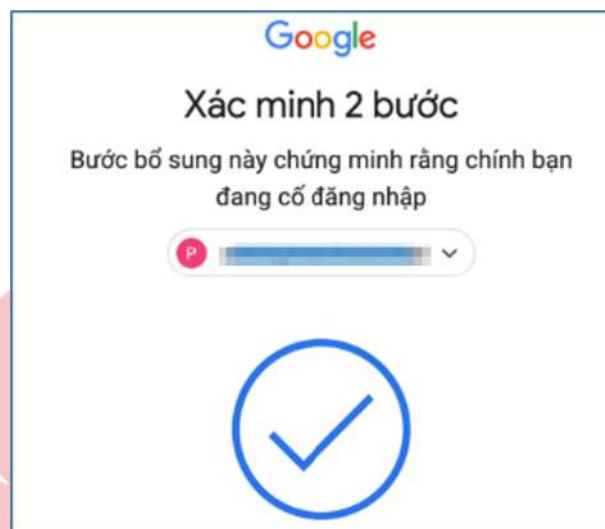
- To check the login flow, access <https://accounts.google.com> then login with username and password



- 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.

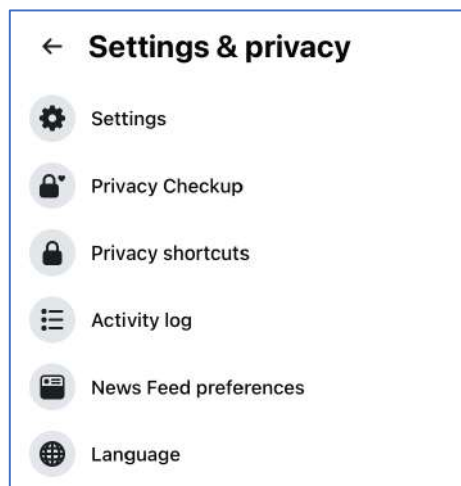


- Successful two-factor authentication, now user logged into account:

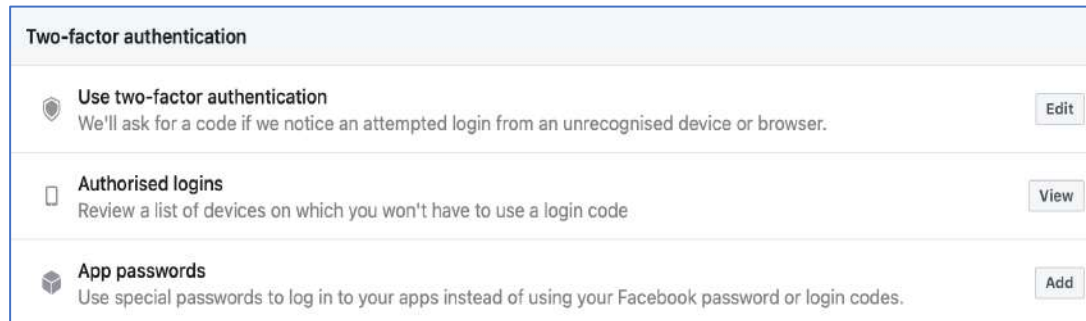


3.4. Two-factor authentication with Facebook service

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

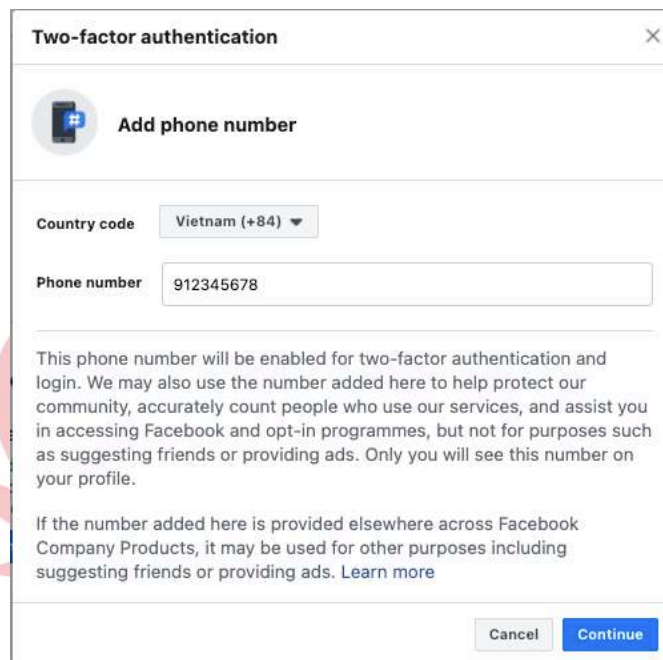


- In the **2-Factor Authentication** section, choose to edit **Use 2-Factor Authentication**



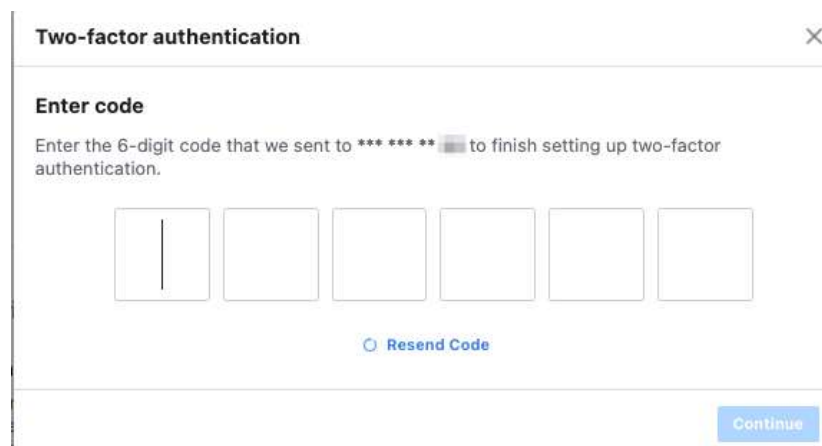
The screenshot shows the 'Two-factor authentication' settings page. It has three main sections: 'Use two-factor authentication' with an 'Edit' button, 'Authorised logins' with a 'View' button, and 'App passwords' with an 'Add' button. Each section includes a brief description of the feature.

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



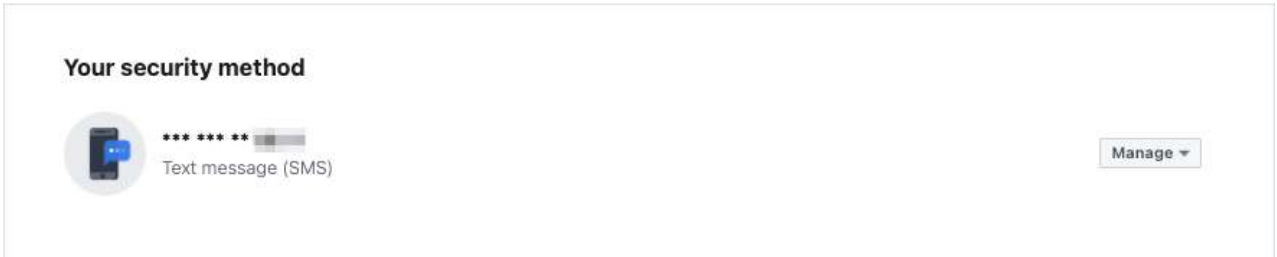
The screenshot shows a dialog box titled 'Two-factor authentication' with a close button (X). The main heading is 'Add phone number'. Below this, there is a 'Country code' dropdown menu set to 'Vietnam (+84)' and a 'Phone number' text input field containing '912345678'. A large block of text explains that the number will be used for two-factor authentication and other purposes like suggesting friends. At the bottom, there are 'Cancel' and 'Continue' buttons.

Enter the code sent to mobile phone

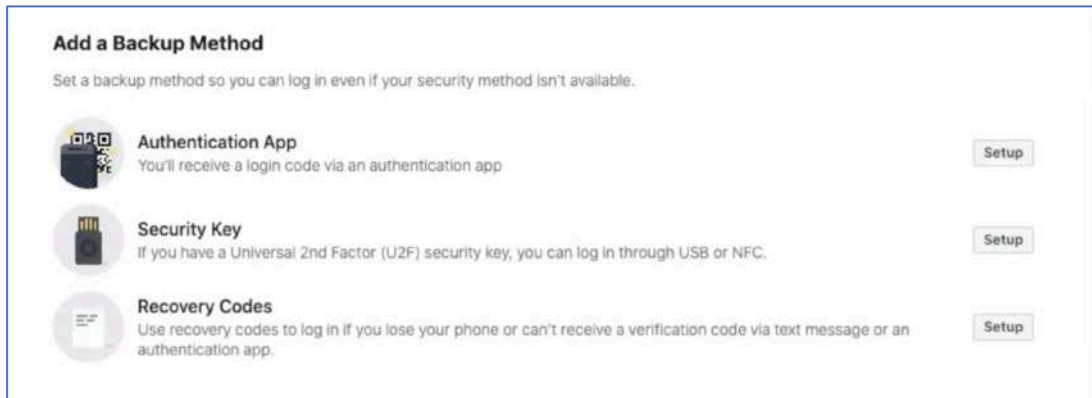


The screenshot shows a dialog box titled 'Two-factor authentication' with a close button (X). The main heading is 'Enter code'. Below this, there is a text prompt: 'Enter the 6-digit code that we sent to *** ** to finish setting up two-factor authentication.' Underneath are six empty input boxes for the code digits. A 'Resend Code' link is located below the input boxes. At the bottom right, there is a 'Continue' button.

Successful verification:



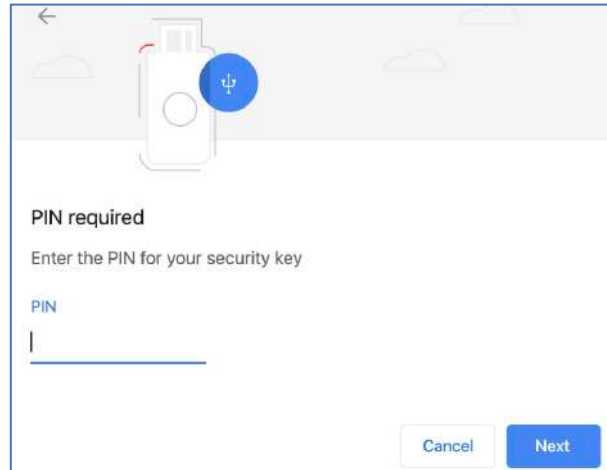
- Select **Security Key** under section **Add a Backup Method**.



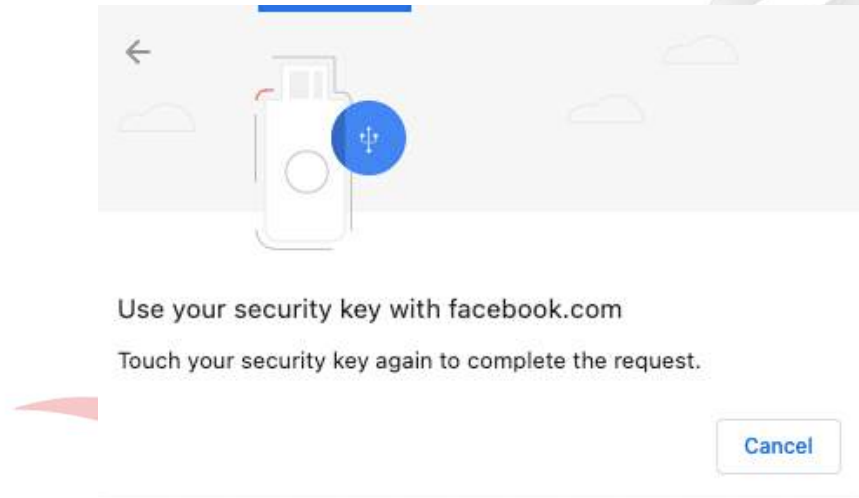
- Attach VinCSS FIDO2® Touch 1 to computer and touch the logo on security key



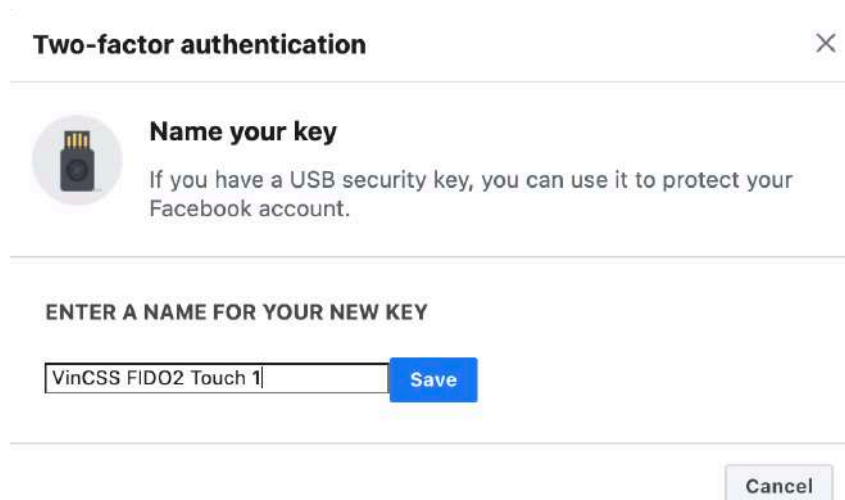
- Enter PIN code of VinCSS FIDO2® Touch 1 to authenticate, then click Next



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



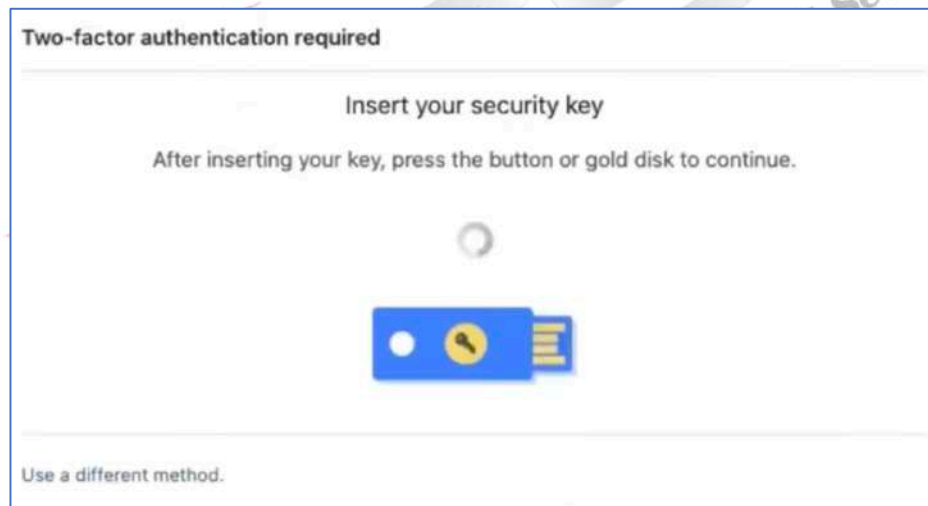
- Name the security key to identify the key in case user uses multiple keys for the account, click Save to confirm



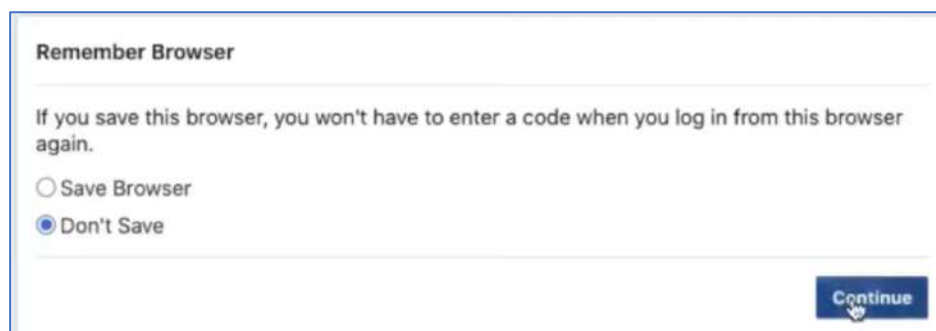
- To check the login flow, access <https://facebook.com> then login with username and password



- 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.

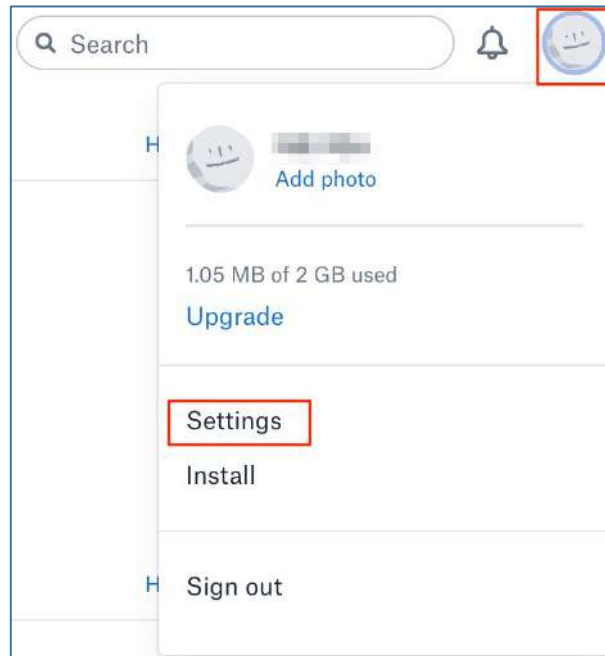


- Successful authentication

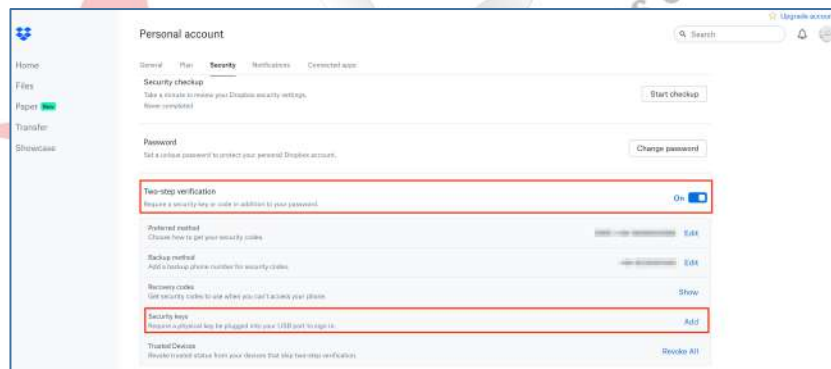


3.5. Two-factor authentication with Dropbox service

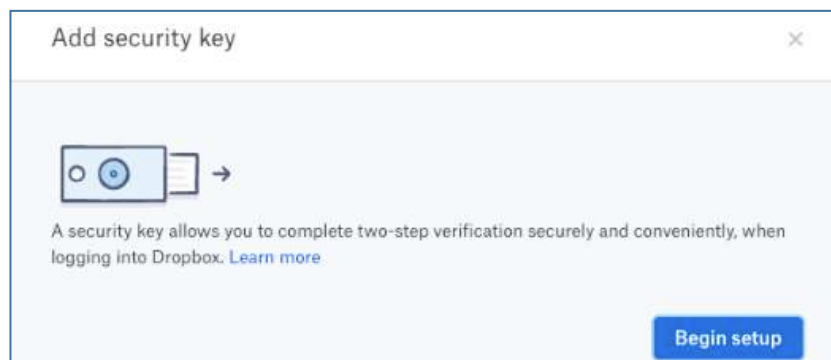
- Access to Dropbox service at <https://dropbox.com/>, login and select **Settings**



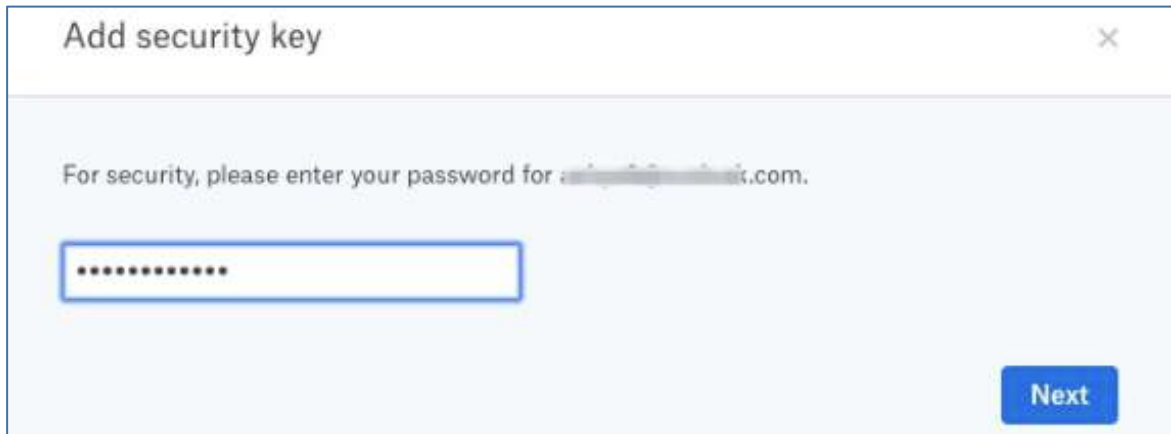
- At **Security**, turn on the **Two-step verification feature**, then select **Add** the **Security keys** feature



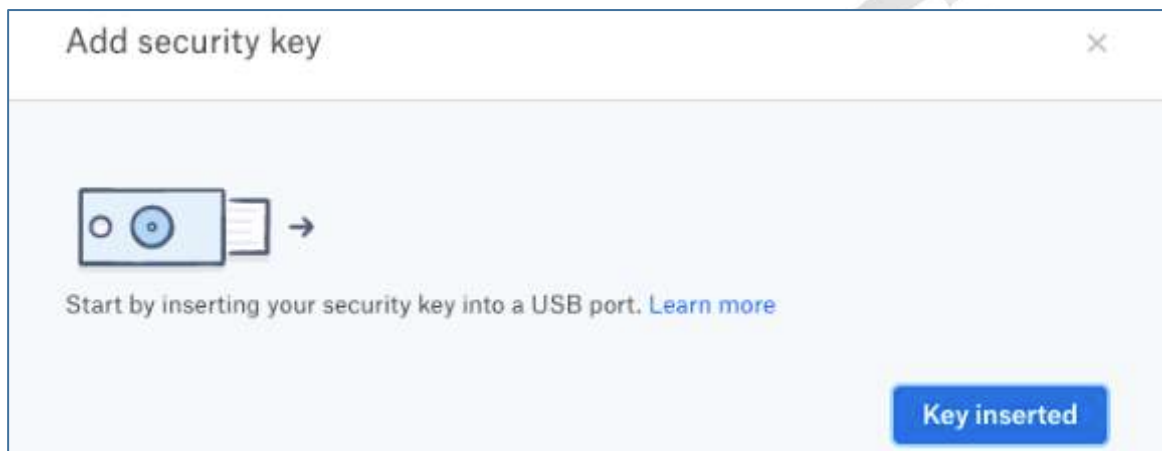
- Select **Begin setup** to start the registration process of VinCSS FIDO2® Touch 1



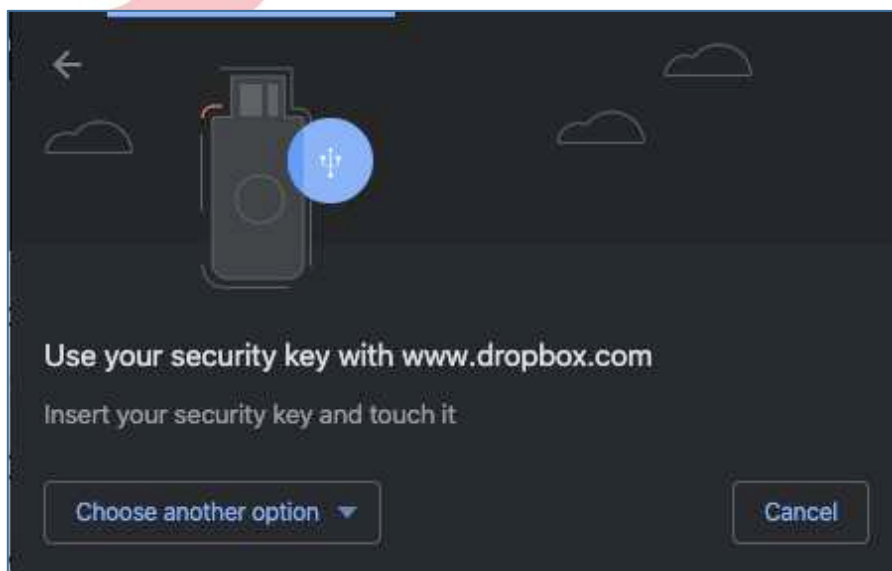
- Enter the password to proceed with the registration



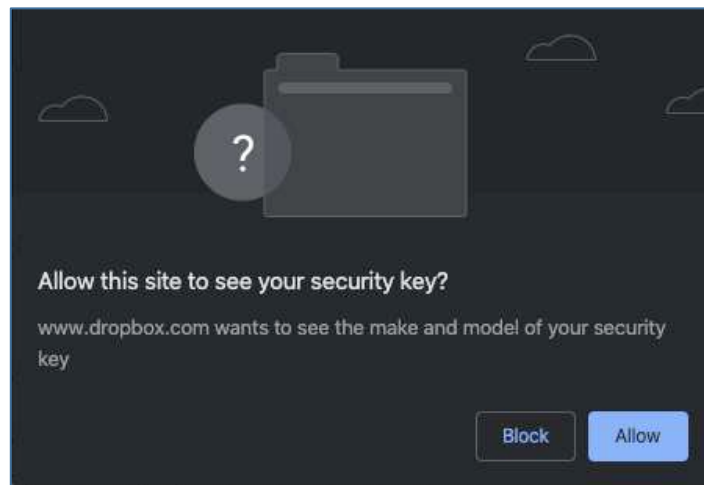
- Connect VinCSS FIDO2® Touch 1 to computer



- Touch the yellow logo on VinCSS FIDO2® Touch 1



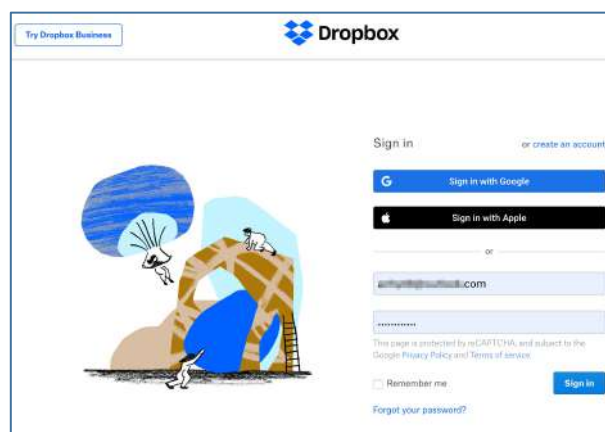
- At this step, browser may request to read security key information, select Allow to continue.



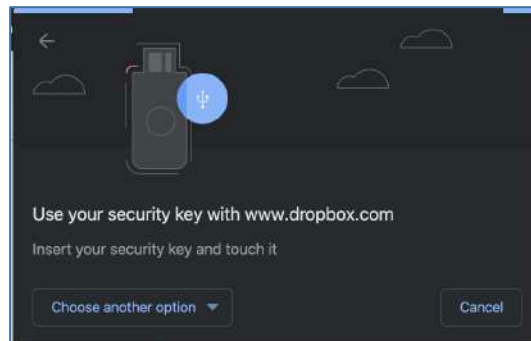
- Name the security key to identify the key in case user uses multiple keys for the account, click Finish to confirm.



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

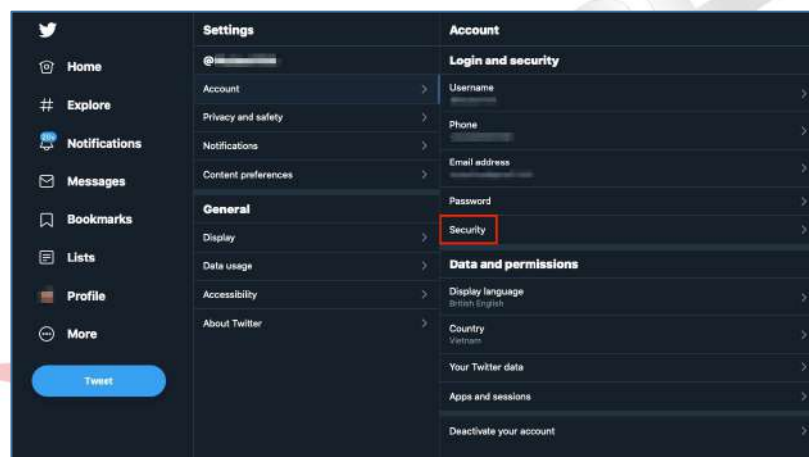


- After being authenticated with the password, browser requests user to authenticate with security key. User plugs in VinCSS FIDO2® Touch 1 to computer, touches the logo on VinCSS FIDO2® Touch 1 to perform two-factor authentication.

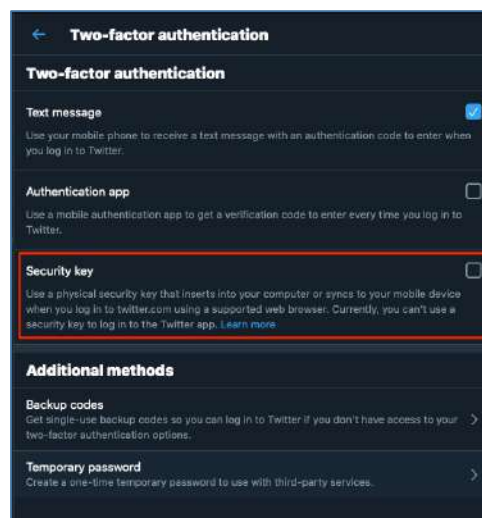


3.6. Two-factor authentication with Twitter service

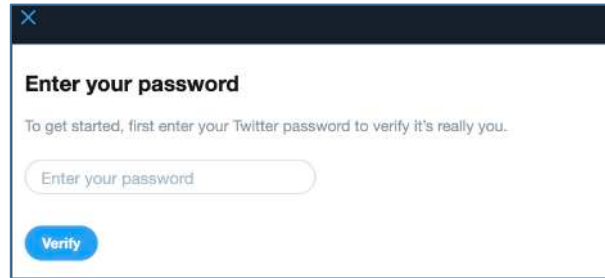
- Access <https://twitter.com>, login into account. Choose **More > Setting and Privacy > Security**



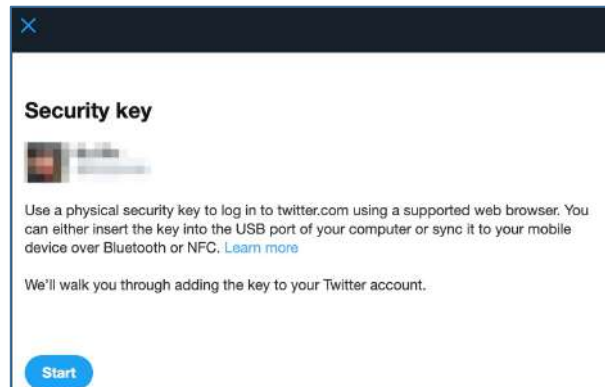
- At **Security** section, select **Two-factor authentication** and check the **Security Key** feature



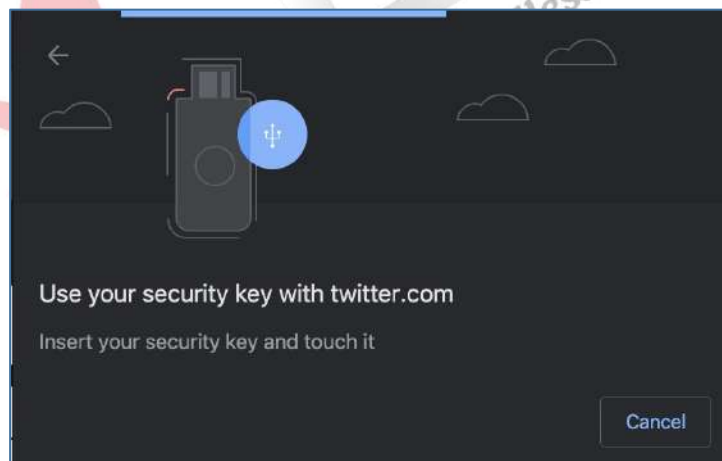
- Enter the login password and select **Verify** to confirm the registration process



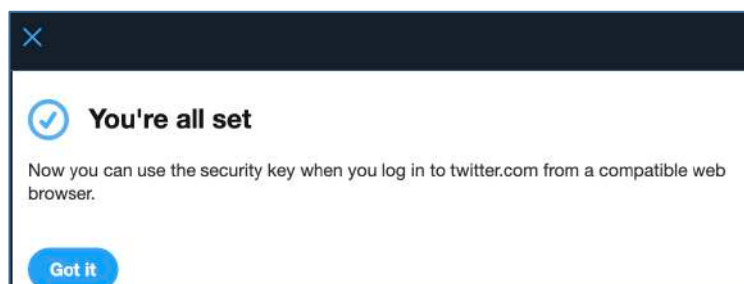
- Select **Start** to start registration



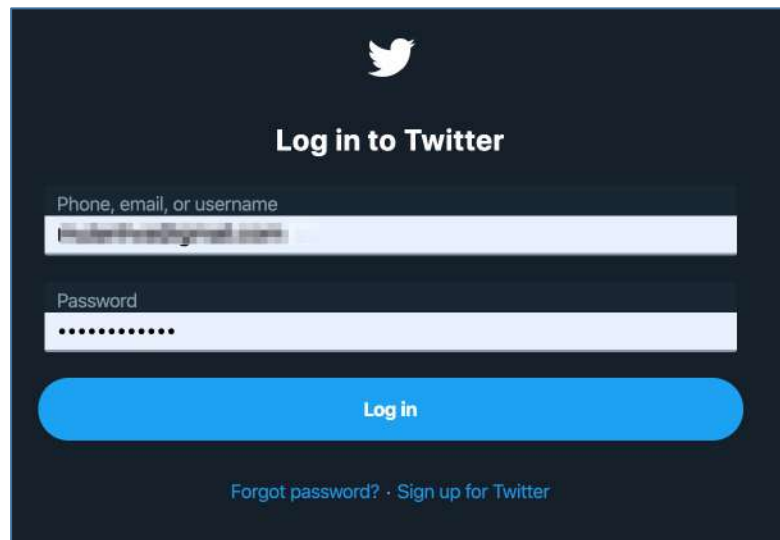
- Connect VinCSS FIDO2® Touch 1 to computer, then touch the yellow logo on VinCSS FIDO2® Touch 1



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

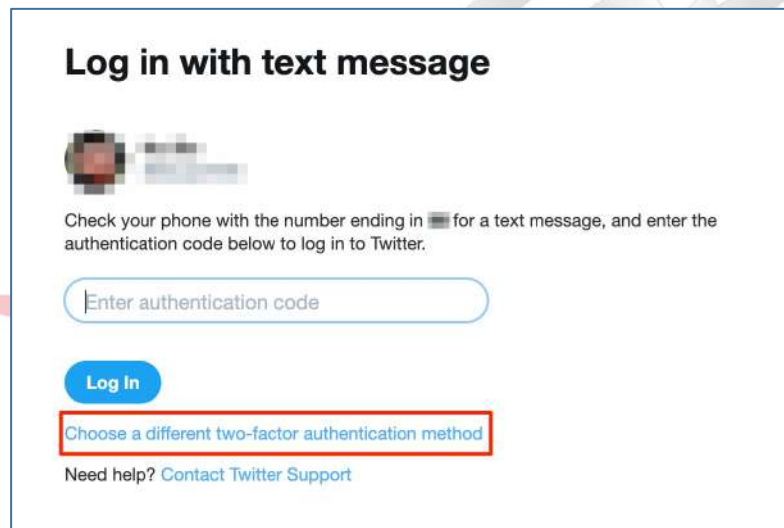


- To check the login flow, access <https://twitter.com/> then login with username and password



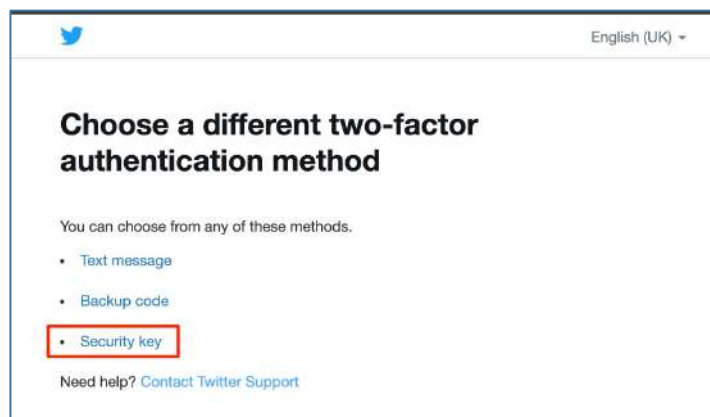
The screenshot shows the Twitter login interface. At the top is the Twitter logo. Below it is the heading "Log in to Twitter". There are two input fields: "Phone, email, or username" and "Password". A blue "Log in" button is positioned below the password field. At the bottom, there are links for "Forgot password?" and "Sign up for Twitter".

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



The screenshot shows the "Log in with text message" page. It features a user profile picture and name. The text instructs the user to check their phone for a text message and enter the authentication code. There is an input field for the code and a blue "Log in" button. A red box highlights the link "Choose a different two-factor authentication method". At the bottom, there is a link for "Need help? Contact Twitter Support".

- Select *Security key*



The screenshot shows the "Choose a different two-factor authentication method" page. It lists three options: "Text message", "Backup code", and "Security key". A red box highlights the "Security key" option. At the bottom, there is a link for "Need help? Contact Twitter Support".

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

