

# VINCSS OVPN MOBILE APPLICATION

## USER MANUAL

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## VERSION TRACKING

Version	Date	Writer	Department	Contact	Note
2.0	10/03/2023		Production Department, VinCSS		Update application interface when registering/login



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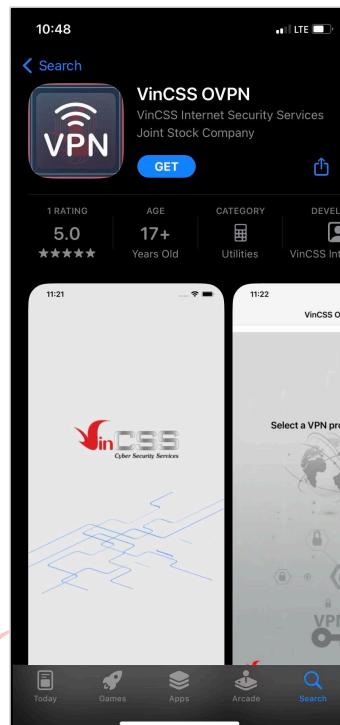
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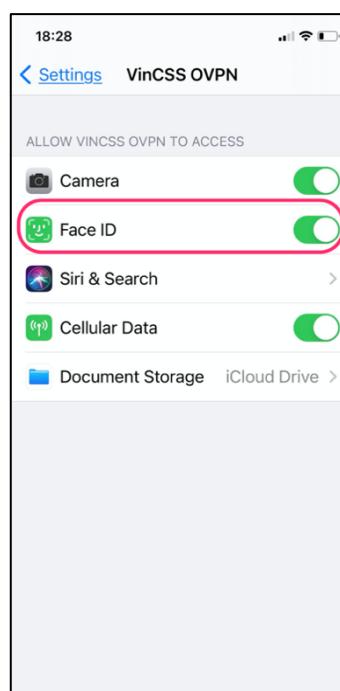
## I. iOS

### I.1. Install VinCSS OVPN

- User search for the key words “VinCSS OVPN” on the App Store, and click **Get** for installing.



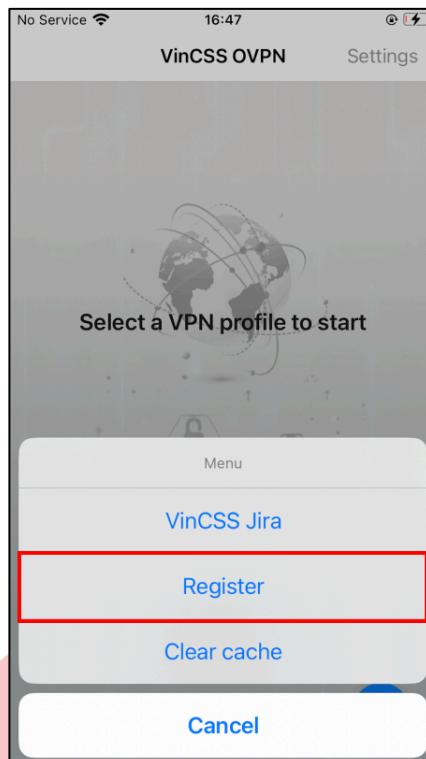
- For the devices having FaceID, go to the **Settings => VinCSS OVPN** and allow the VinCSS OVPN application to use FaceID for the authentication. *(For devices without FaceID, users skip this step).*



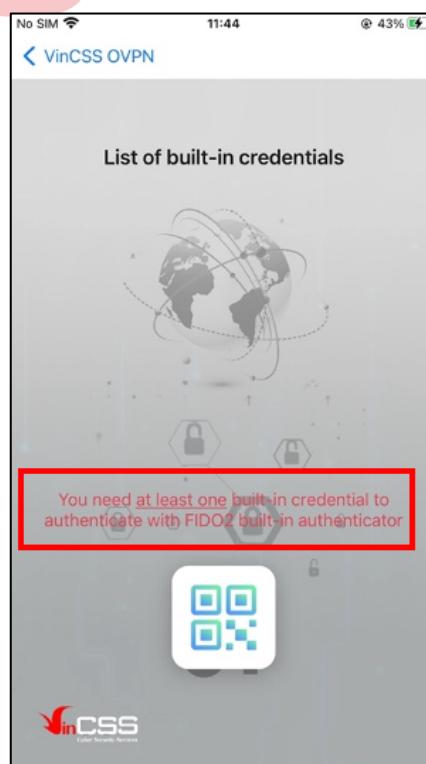
## I.2. Register the security key for the passwordless authentication

### I.2.1. Register the cyber key with the VinCSS FIDO2 application

- User open VinCSS OVPN application on the mobile and click **Settings > Register**.



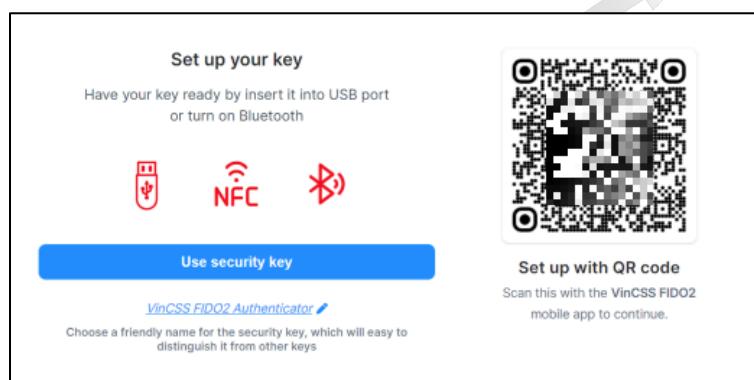
- The message will be displayed on the mobile screen as below.



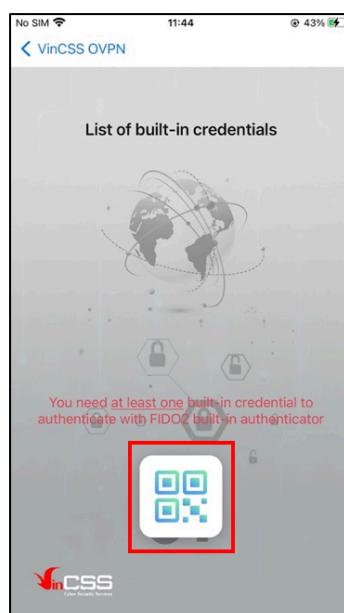
- Contact administrator to get the QR Code registered with the security key for VinCSS OVPN application for passwordless authentication. This QR code will be sent through a link to user via email or IM (*valid for 1 hour, depending on the configuration of each system*) to register a security key for the first-time use. (*For example, get a registration link via Element*).



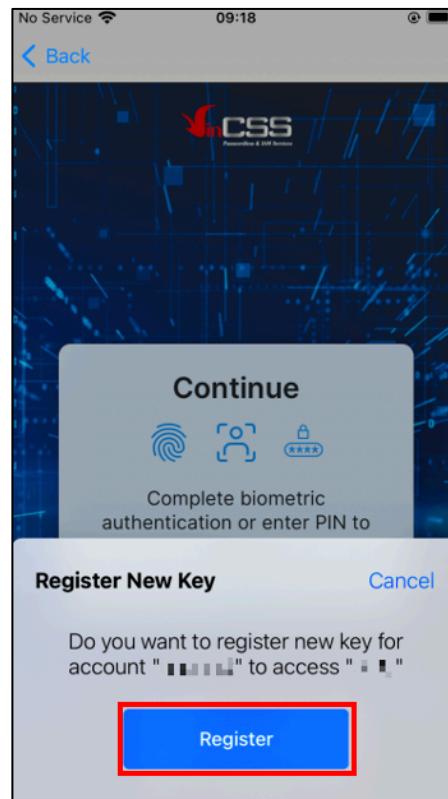
- Click on the security key registration link, the registration interface is displayed as shown below.



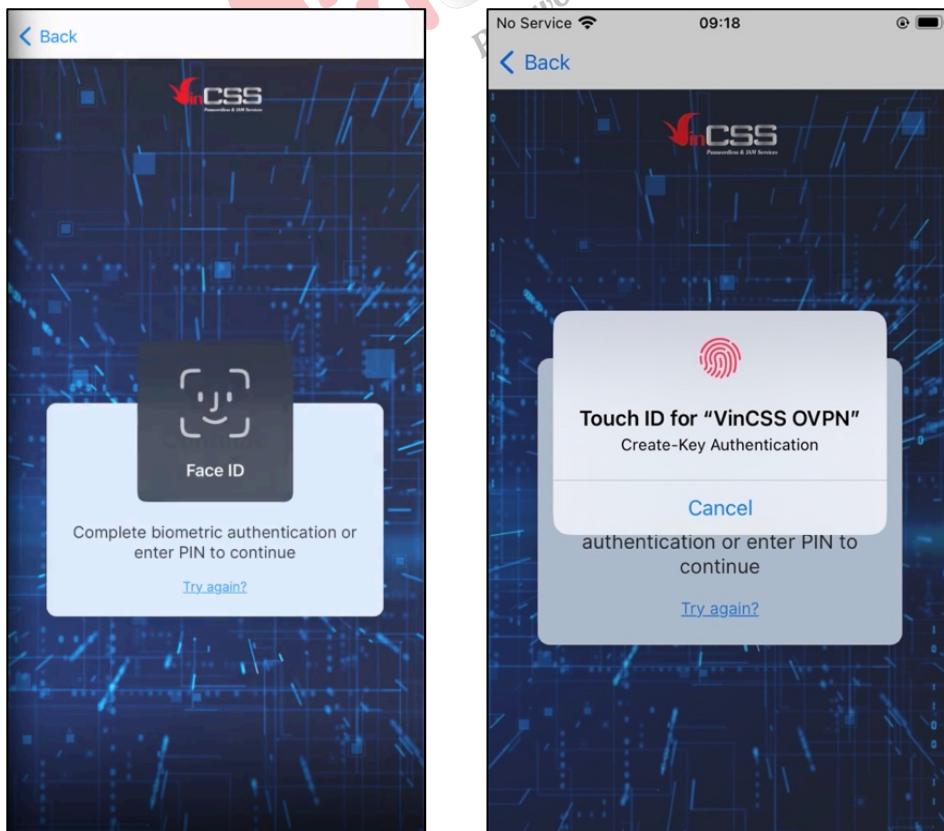
- Click on the **QR Code** symbol and scan the QR Code received from administrator.



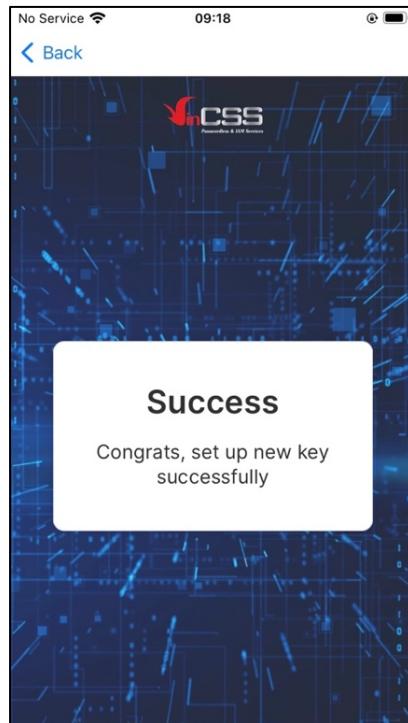
- Select Register.



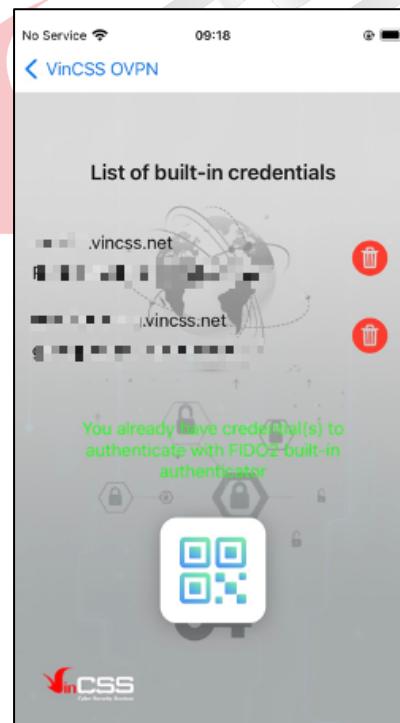
- Use FaceID/TouchID function (*according to device requirements*) to complete the key registration.



- Registration of passwordless authentication key is successful.



- The key information will be displayed on the application screen.



- Click **VinCSS OVPN** on the upper left corner to return to the main screen.

### I.2.2. Register the VinCSS FIDO2® Touch 1 key

- Contact administrator for the instructions of the authentication key registration.

- Refer to VinCSS FIDO2® Touch 1 user manual at the link:  
<https://github.com/VinCSS-Public-Projects/FIDO2-Public-Documents/tree/main/VinCSS-FIDO2-Touch-1>.

### I.2.3. Register the VinCSS FIDO2® Fingerprint key

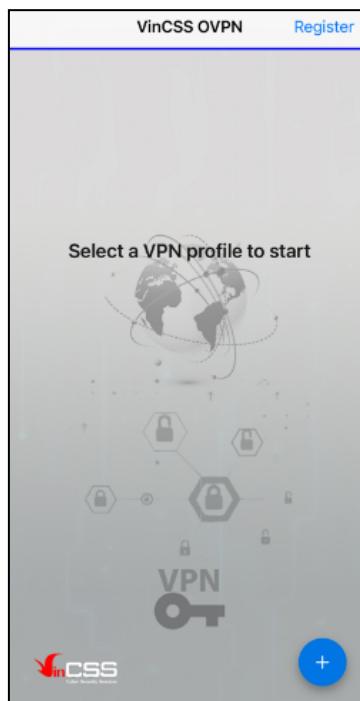
- Contact administrator for the instructions of the authentication key registration.
- Refer to VinCSS FIDO2® Fingerprint user manual at the link:  
<https://github.com/VinCSS-Public-Projects/FIDO2-Public-Documents/tree/main/VinCSS-FIDO2-Fingerprint>.

**Notice:** By default, administrator will send a registration link for the new security key, which is then able to be used with all login forms after the successful registration. (The form of Passwordless authentication (Refer to Section I.4.1.1.) and the form of Usernameless authentication (Refer to Section I.4.1.2.)).

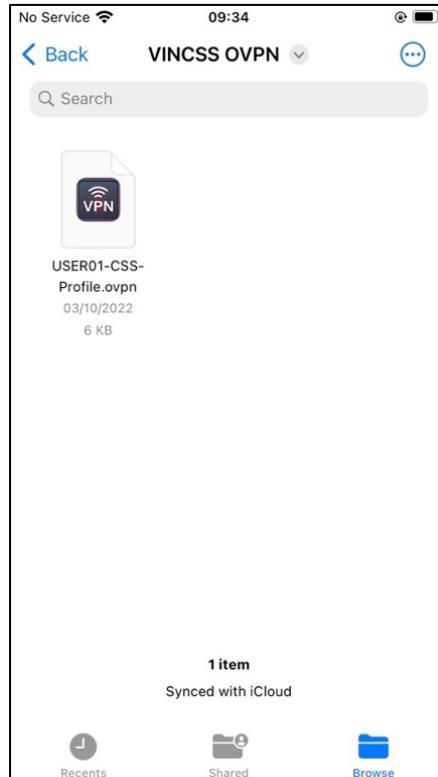
### I.3. Add the VPN profile

**Notice:** Contact administrator to receive the VPN profile. Save this profile in the mobile installed VinCSS OVPN application.

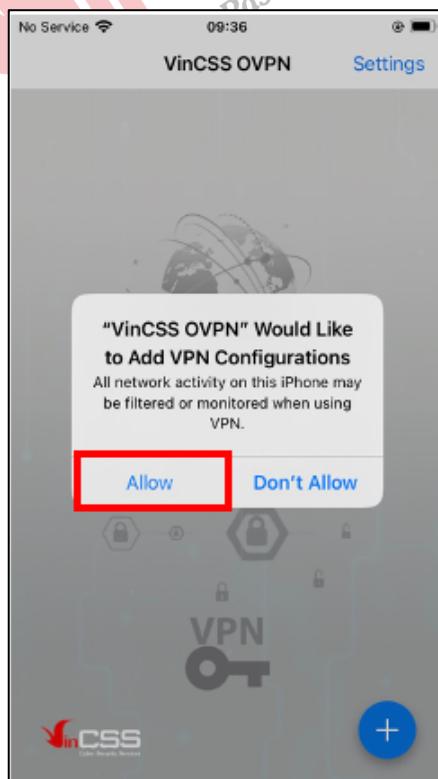
- There are two methods to add the profile:
  - o **The 1st method:** Add the VPN profile directly from the VinCSS OVPN app:
    - Click the (+) icon on the application screen to add the profile.



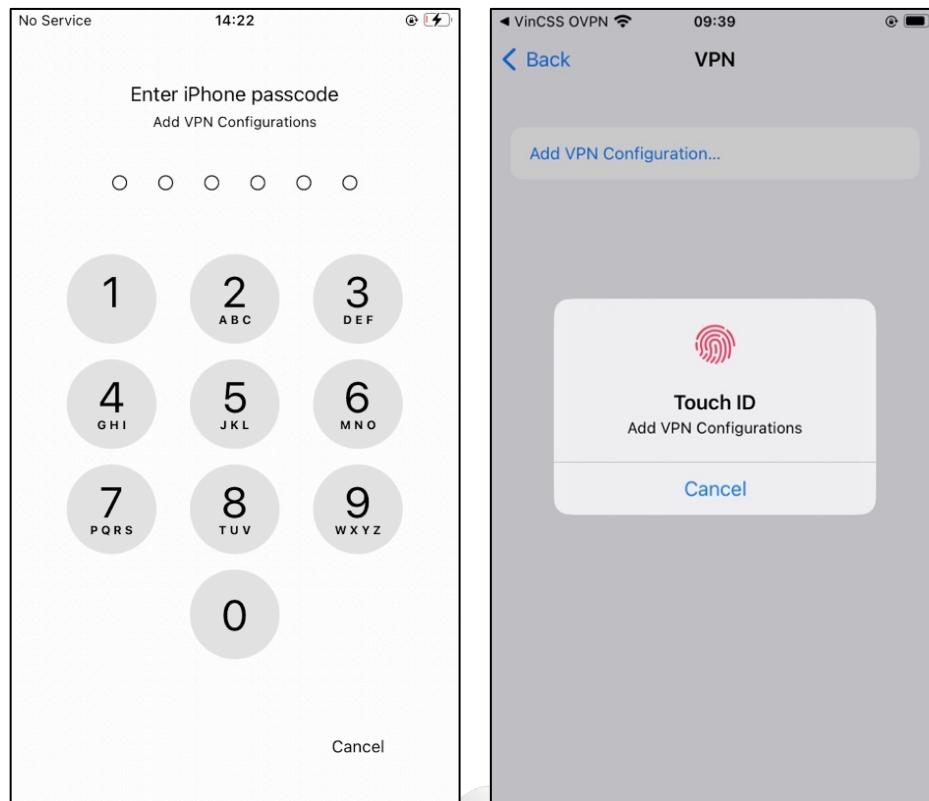
- Select the VPN profile (*file .ovpn*) to add to VinCSS OVPN.



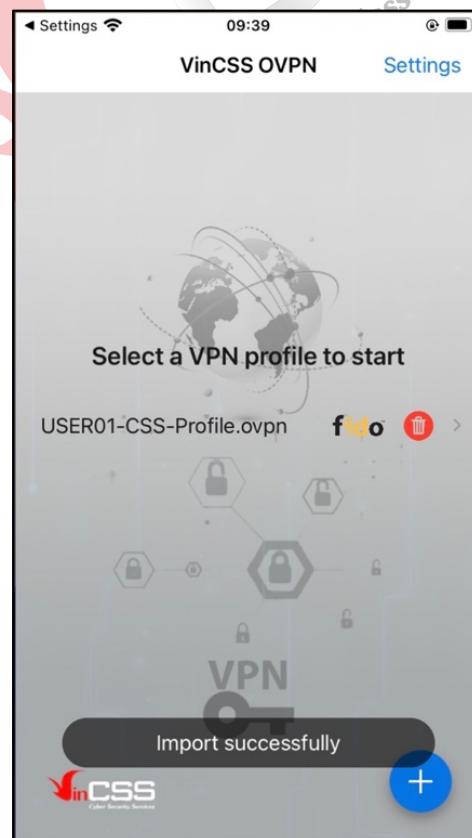
- After having chosen user's profile to add to the VinCSS OVPN application, the screen will display a message related to adding a VPN configuration. Select **Allow**.



- Authenticate with PIN or FaceID/TouchID as required by phone.



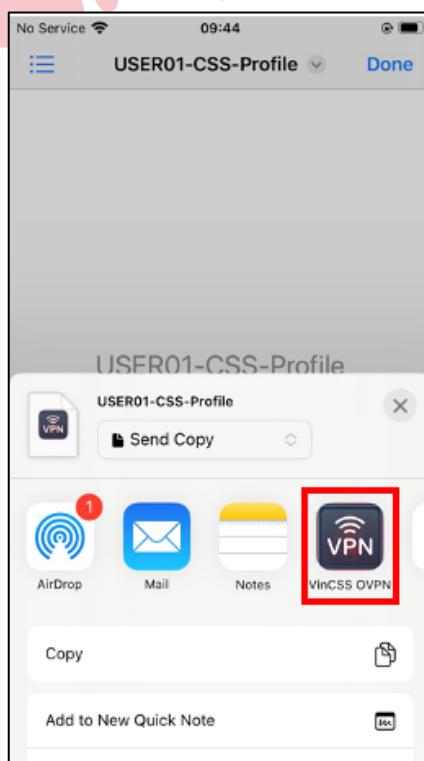
- Successfully added Profile.



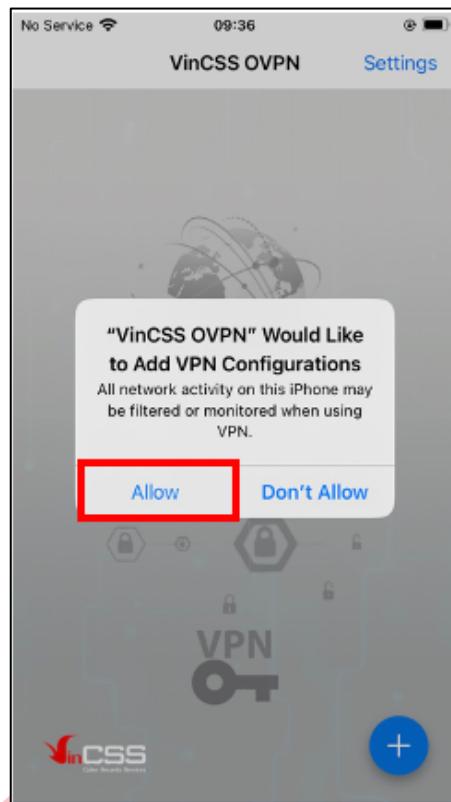
- **The 2<sup>nd</sup> method:** Add VPN profile from the outside of VinCSS OVPN app:
  - Open the downloaded profile. Then click on the arrow icon in the lower left corner of the screen.



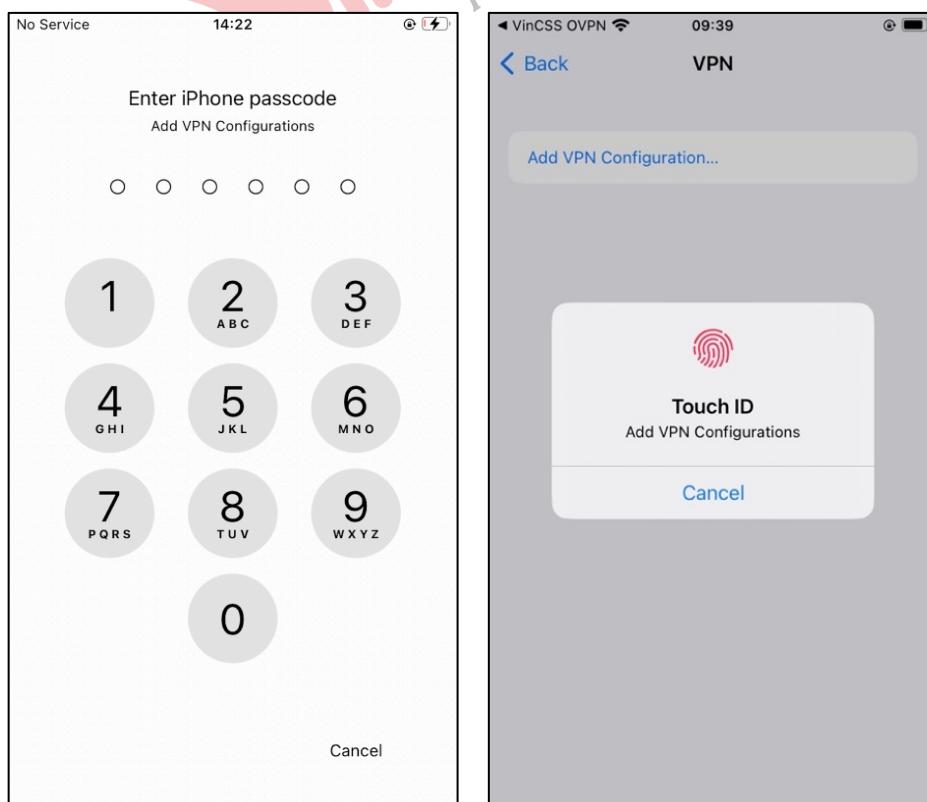
- Select the “Option” to open the file using VinCSS OVPN.



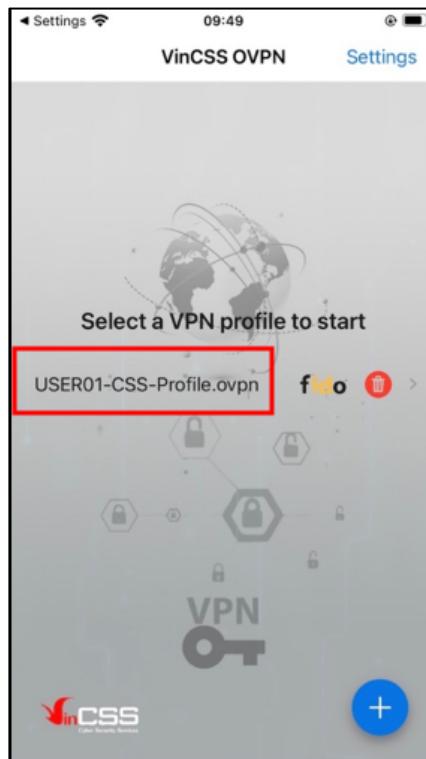
- Allowance request will appear on the screen after adding the profile to the VinCSS OVPN application. Click **Allow**.



- Using PIN or FaceID/TouchID function (*depends on smartphone configuration*) to re-authenticate.

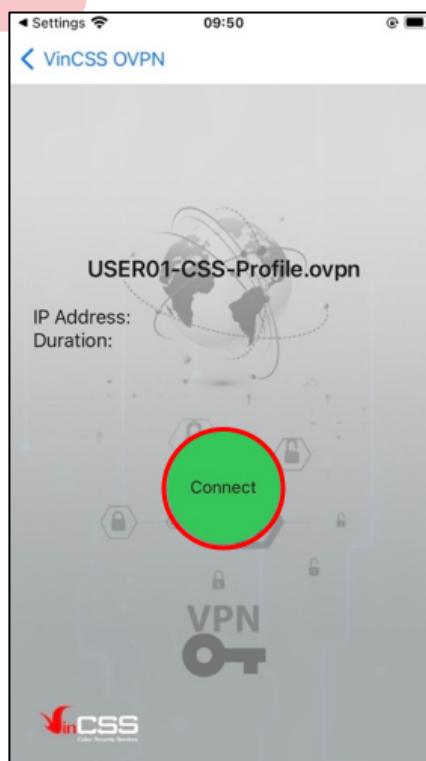


- VPN profile has been successfully added. The profile information will be displayed as below:



#### I.4. Connect to VPN on VinCSS OVPN application

- Select the VPN profile that you need to connect. Click **Connect** icon to connect to the VPN.



## I.4.1. Authenticate with the registered cyber key on VinCSS OVPN

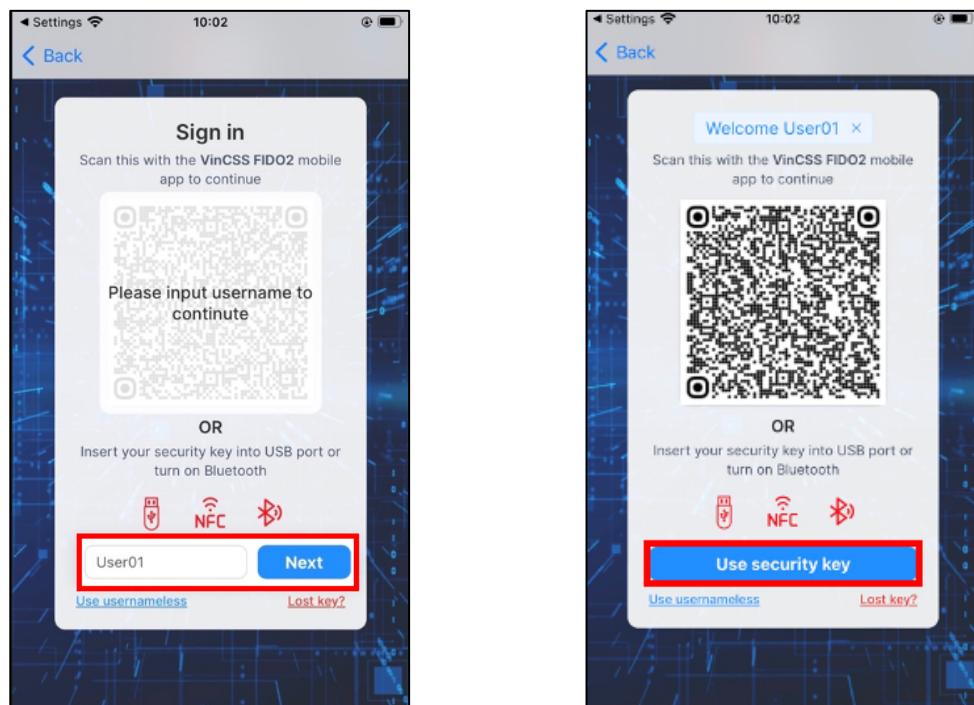
The registered authentication key on VinCSS OVPN. (refer to the section I.2.).

- Select Built-in Key.



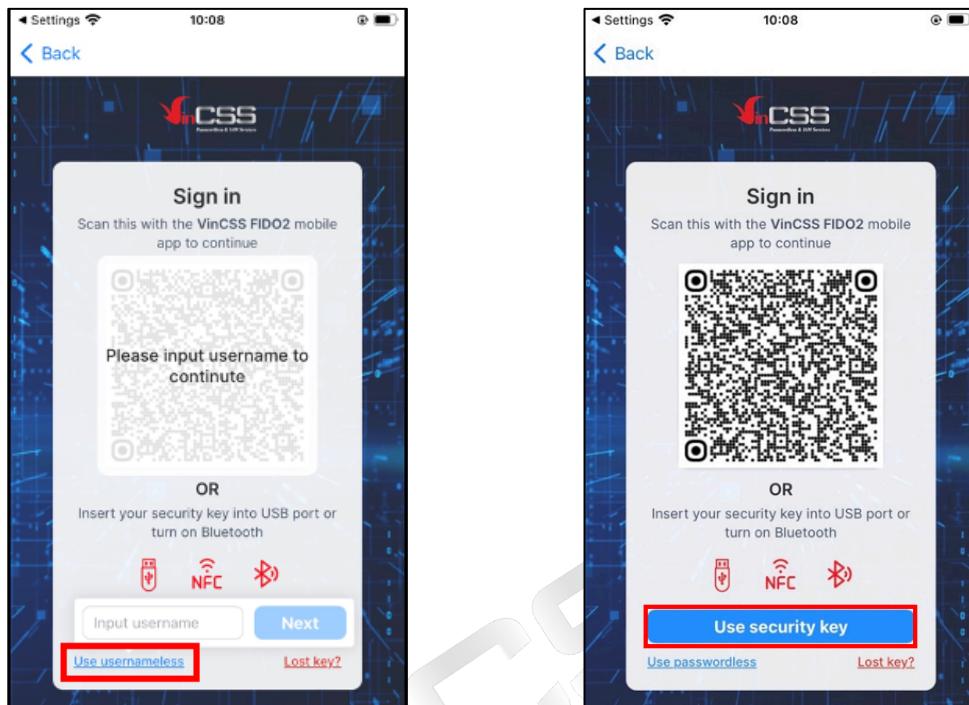
### I.4.1.1. Passwordless authentication

- Enter the **username** (case insensitive), select **Next**. Then select **Use Security Key** to continue.

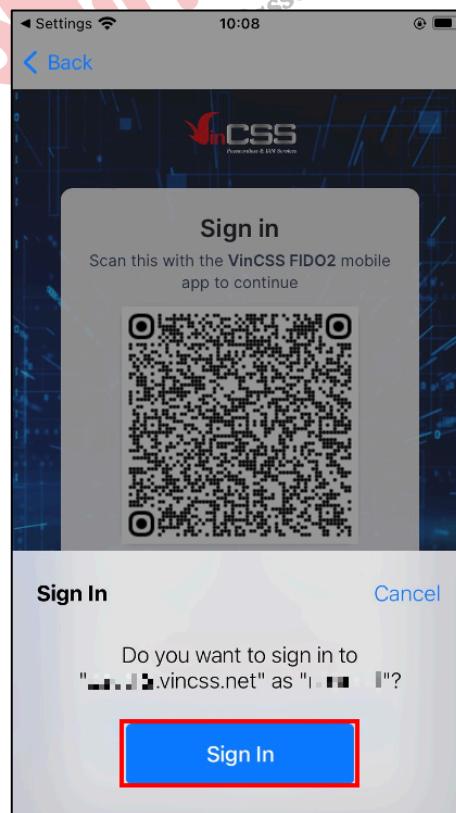


#### I.4.1.2. Usernameless authentication

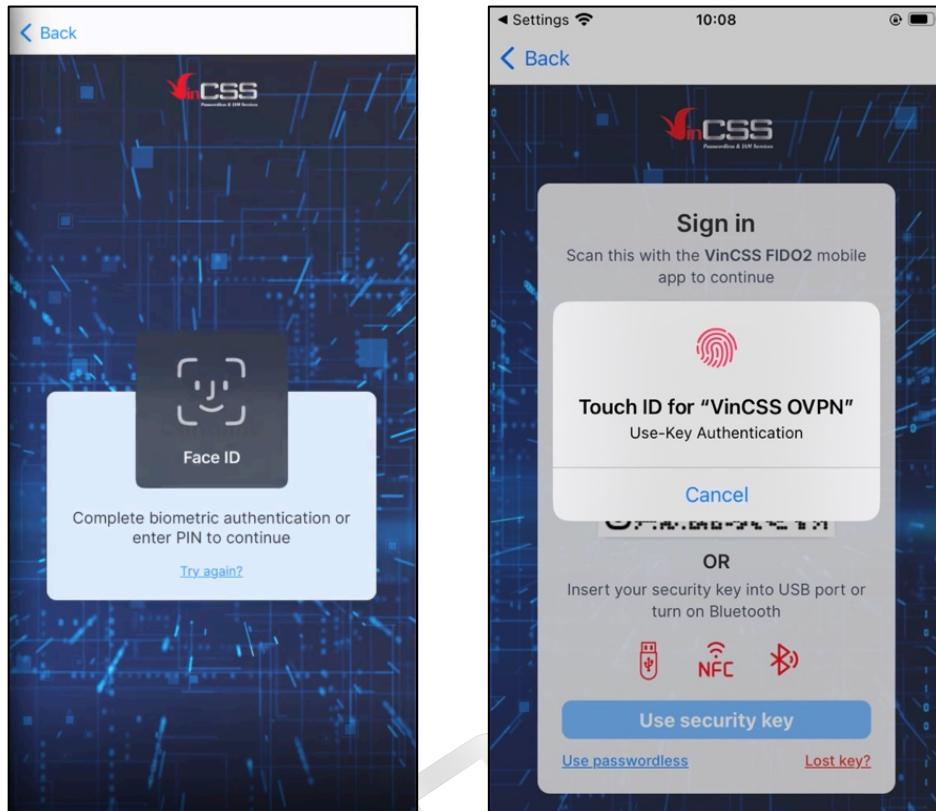
- In case the key is initialized with the option to use usernameless authentication, user can choose **Use Usernameless** instead of entering the **username** step. Then select **Use Security Key** to continue.



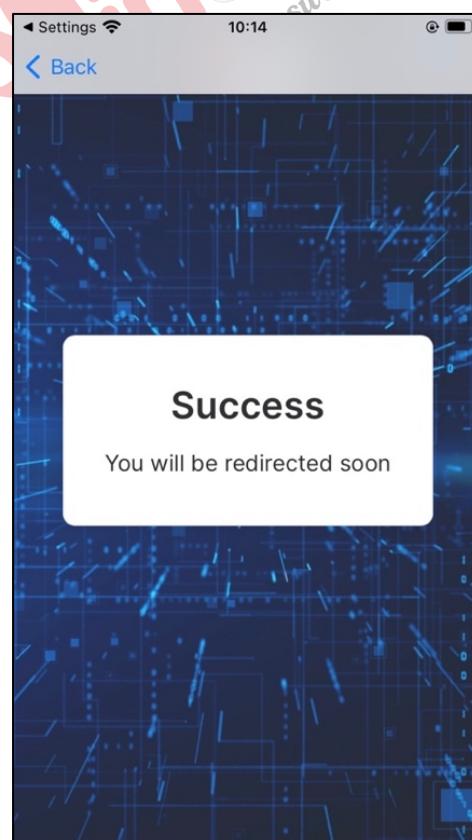
- Select **Sign in** to sign in with the app's security key.



- User uses FaceID/TouchID (*according to application requirements*) to complete the passwordless authentication process.



- Authentication successful.

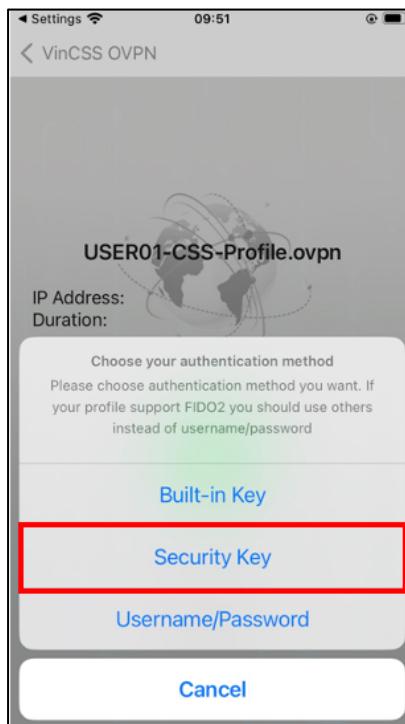


- Screen displays information about the connection.



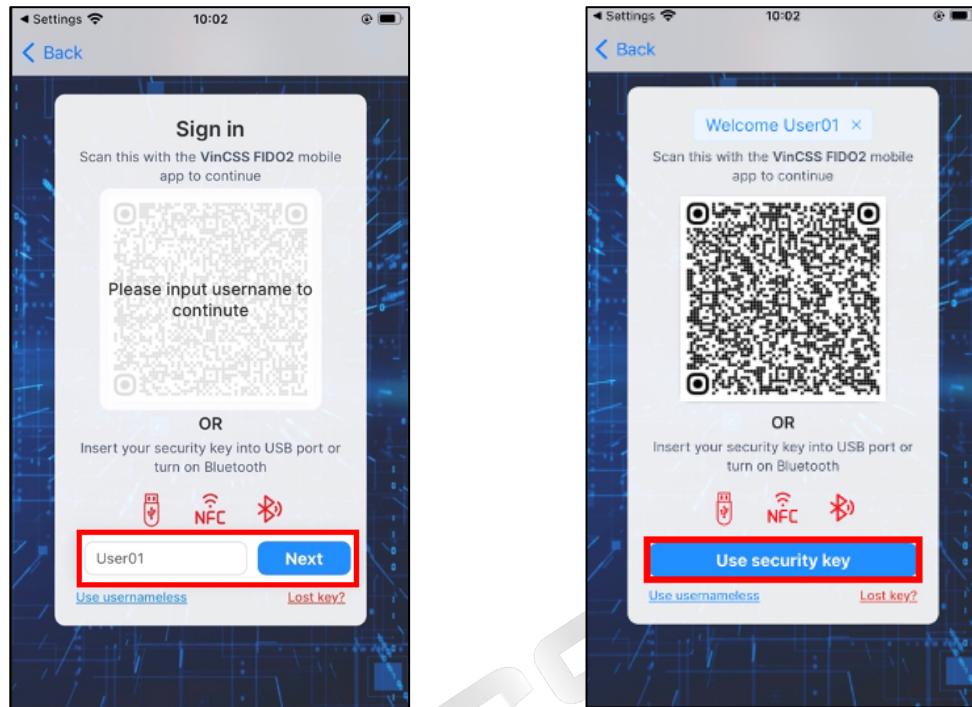
#### I.4.2. Authenticate with the VinCSS FIDO2® Fingerprint security key via Bluetooth connection.

- Select Security Key.



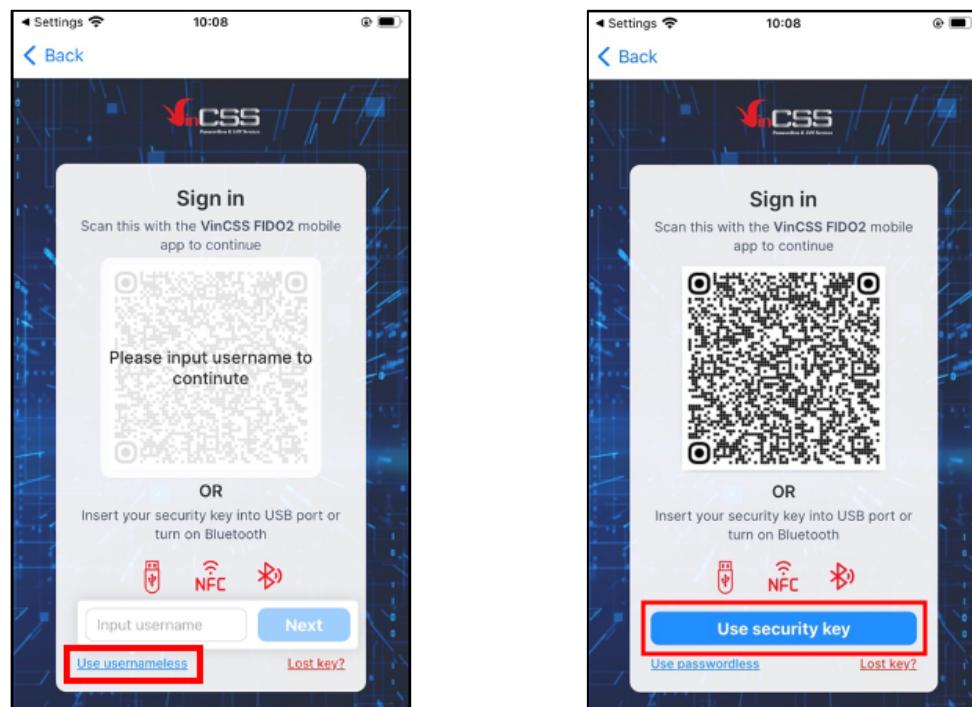
#### I.4.2.1. Passwordless authentication

- Enter **username** (*case insensitive*), select **Next**. Then select **Use Security Key** to continue.

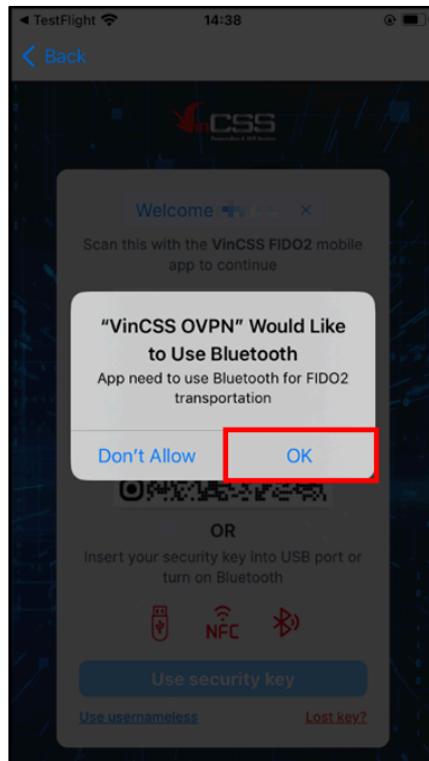


#### I.4.2.2. Usernameless authentication

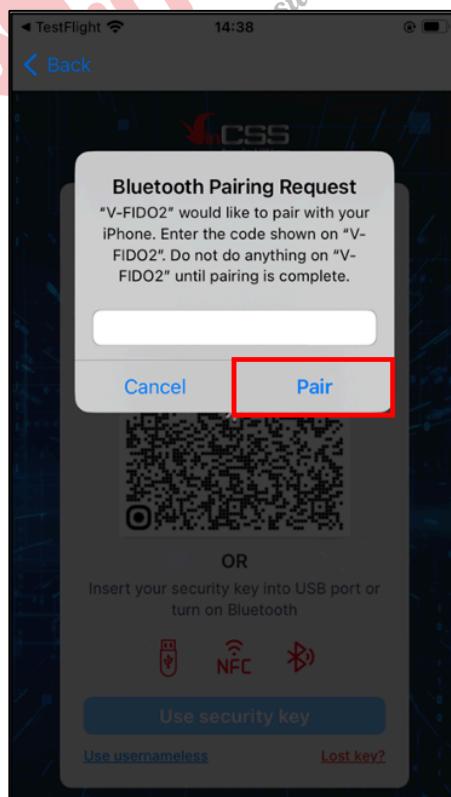
- In case the key is initialized with the option to use usernameless authentication, user can choose **Use Usernameless** instead of entering the **username** step. Then select **Use Security Key** to continue.



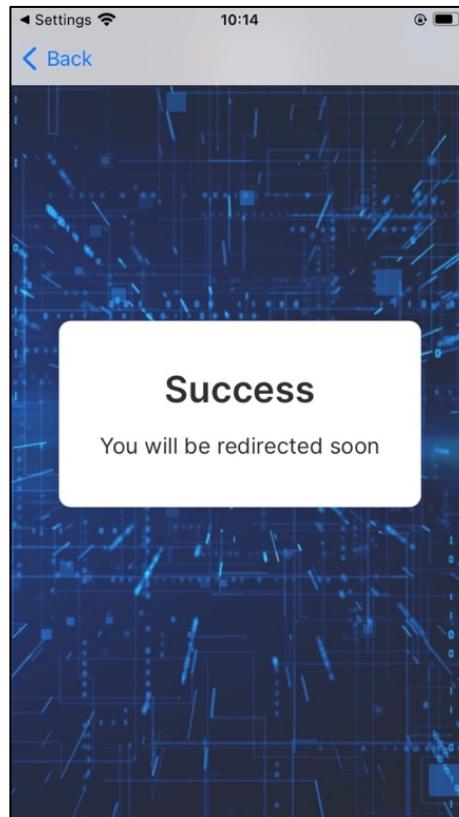
- Click **OK** to allow the app to use bluetooth.



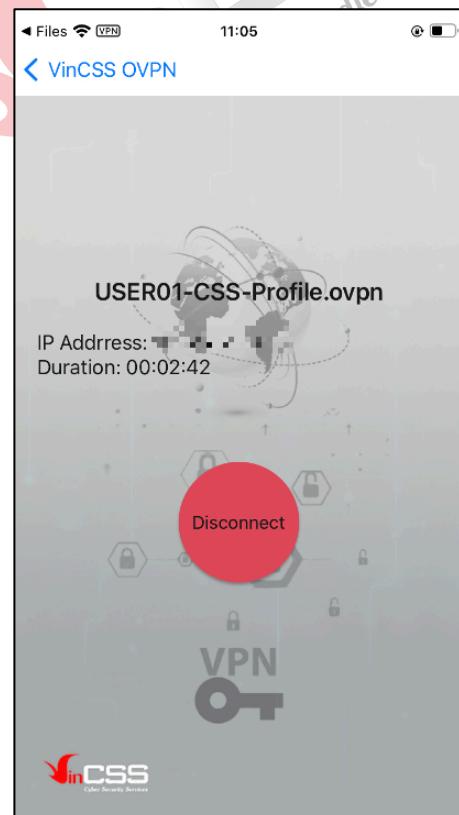
- Enter the security key's PIN (*usually found on the back of the key*) and select **Pair**. Scan your fingerprint on the security key to authenticate when you see a light signal.



- Authentication successful.

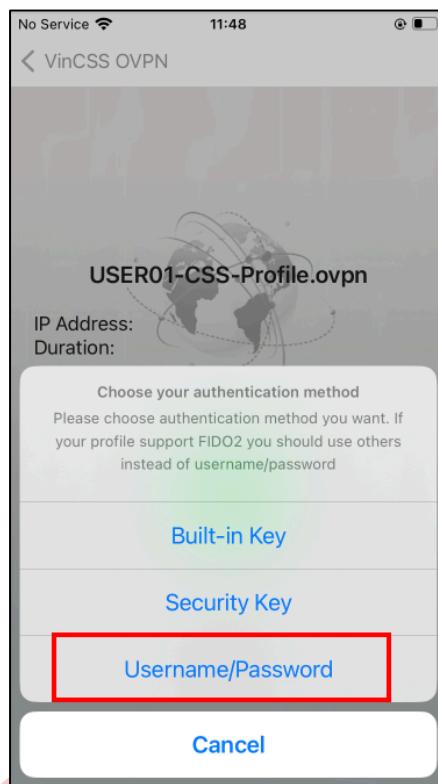


- Screen displays information about the connection.

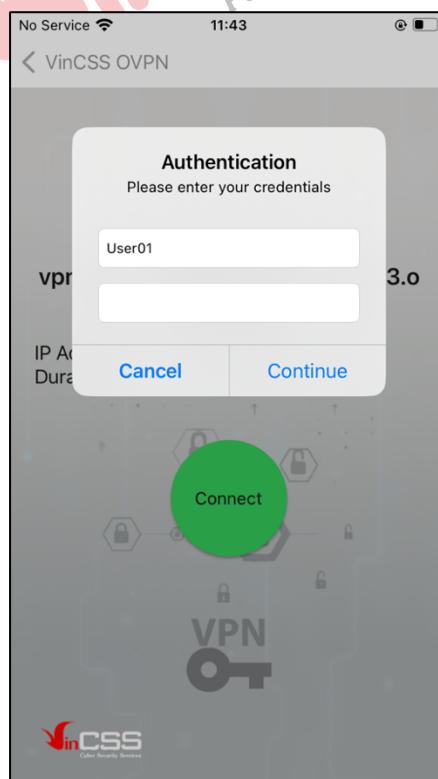


### I.4.3. Authenticate with Username/Password

- Select Username/Password.



- Type **Username** (*case insensitive*) and **Password** sent by administrator, then select **Continue**.



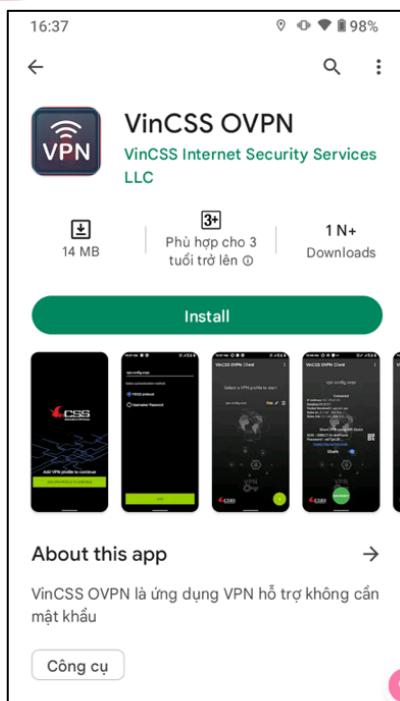
- When VPN is connected successfully, the information will be displayed on the screen.



## II. ANDROID

### II.1. Install VinCSS OVPN

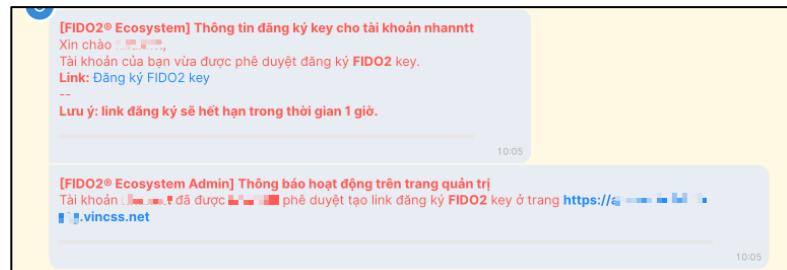
- Search for the key words “VinCSS OVPN” on **Play Store**, click “Install” to set-up the application.



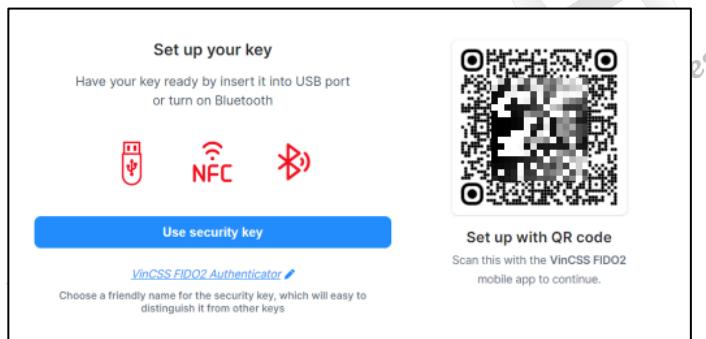
## II.2. Register the security key for the passwordless authentication

### II.2.1. Register the soft key with the VinCSS FIDO2 application

- Contact administrator to receive QR Code via a link is sent to user via email or IM (*the link is valid for 1 hour, depending on the configuration of each system*) to register the security key for the first-time use. (*For example, get a registration link via Element*).



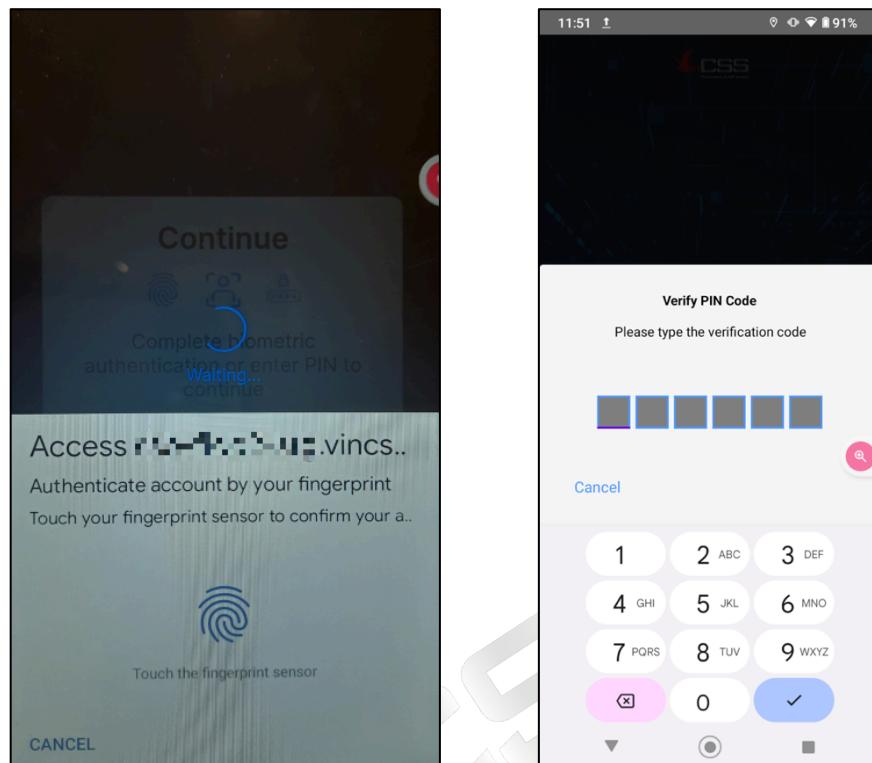
- Click on the security key registration link and the security key registration interface is displayed as shown below.



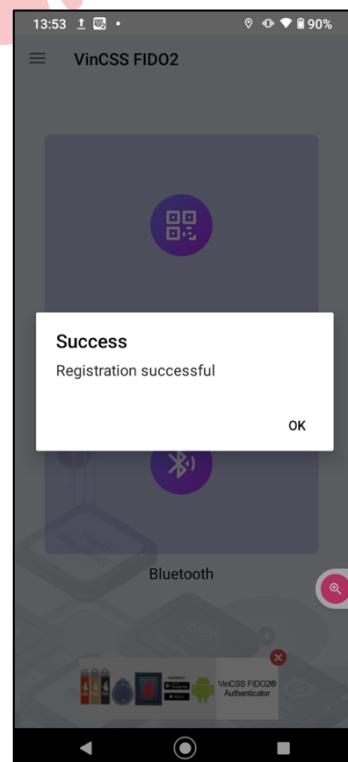
- Open VinCSS FIDO2 application, click on the **QR Code** icon to scan the QR Code.



- After scanning the QR Code, on the application interface, the fingerprint scanning window will be displayed or enter the PIN code (*at the request of device*) to confirm.



- A message will be displayed on the screen to confirm the successful process.



## II.2.2. Register the VinCSS FIDO2® Touch 1 key

- Contact administrator for the instructions of the authentication key registration.
- Refer to VinCSS FIDO2® Touch 1 user manual at the link:  
<https://github.com/VinCSS-Public-Projects/FIDO2-Public-Documents/tree/main/VinCSS-FIDO2-Touch-1>

## II.2.3. Register the VinCSS FIDO2® Fingerprint key

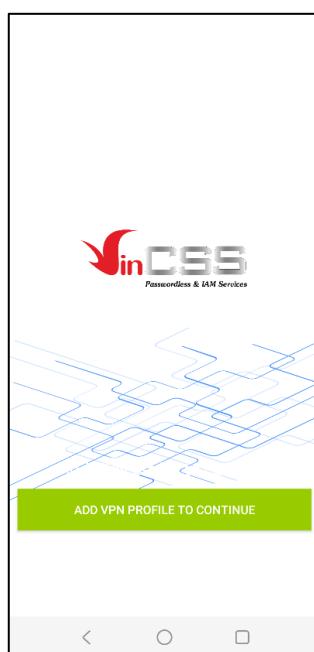
- Contact administrator for the instructions of the authentication key registration.
- Refer to VinCSS FIDO2® Fingerprint user manual at the link:  
<https://github.com/VinCSS-Public-Projects/FIDO2-Public-Documents/tree/main/VinCSS-FIDO2-Fingerprint>

**Notice:** By default, administrator will send a registration link for the new security key, which is then able to be used with all login forms after the successful registration. (The form of Passwordless authentication (Refer to Section II.4.1.1.) and the form of Usernameless authentication (Refer to Section II.4.1.2.)).

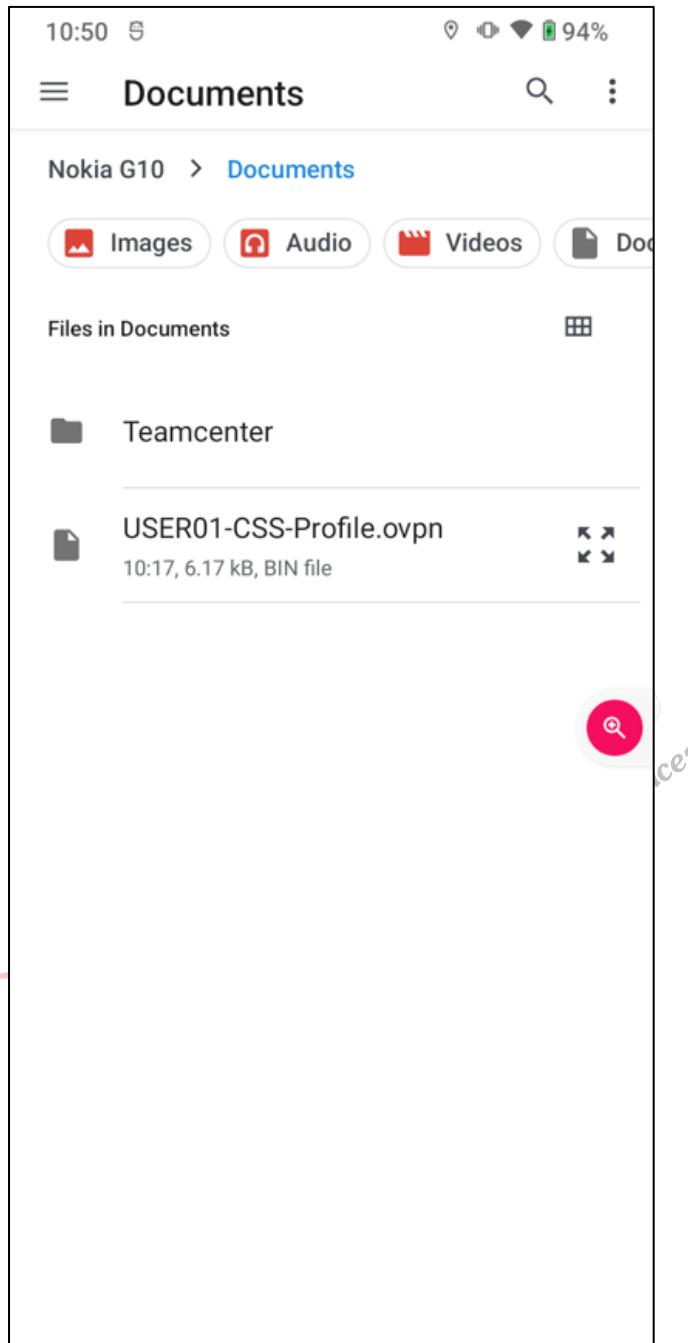
## II.3. Add VPN profile

**Notice:** Contact administrator to receive VPN profile. Save this profile in installed VinCSS OVPN application.

- Open the VinCSS OVPN application, click “**ADD VPN PROFILE TO CONTINUE**”.

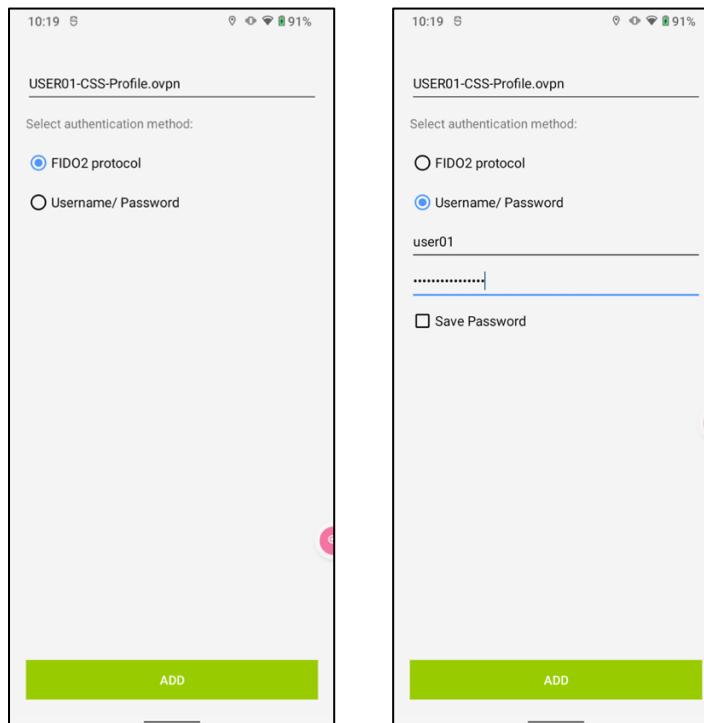


- Select the profile (*file .ovpn*) sent by administrator.



- Use one of two authentication methods:
  - o Select the **FIDO2 Protocol** for the passwordless authentication:
    - Use VinCSS FIDO2 application on the mobile (*refer to section II.4.1*).
    - The security key VinCSS FIDO2® Touch 1 (*refer to section II.4.2*).
    - The security key VinCSS FIDO2® Fingerprint (*refer to section II.4.3*).

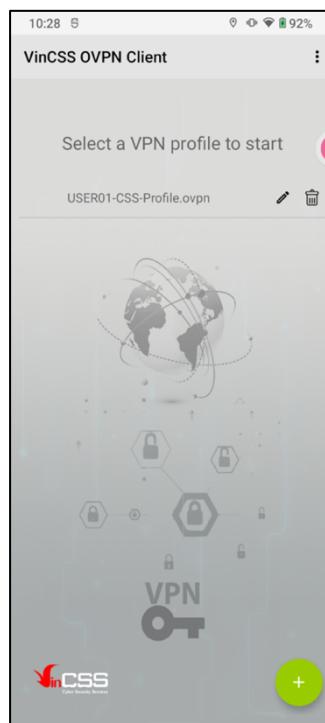
- Select the **Username/Password** to authenticate (*refer to section II.4.4*):  
 Use the username and password provided for authentication.



***Passwordless authentication  
with FIDO2 protocol***

***Authentication using  
Username/Password***

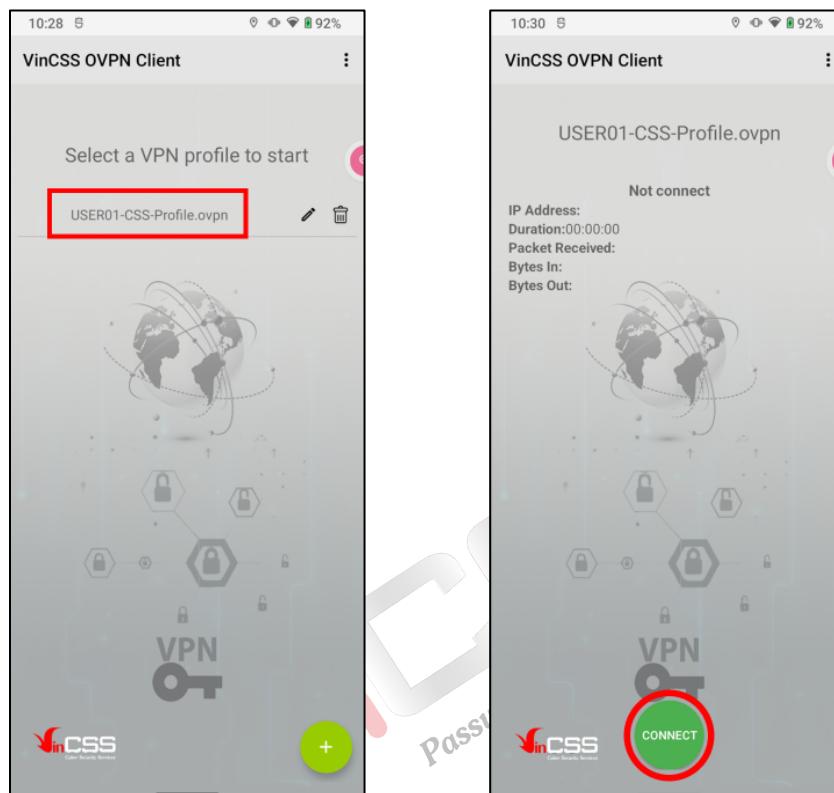
- After the VPN profile has been successfully added, it will be displayed as below.



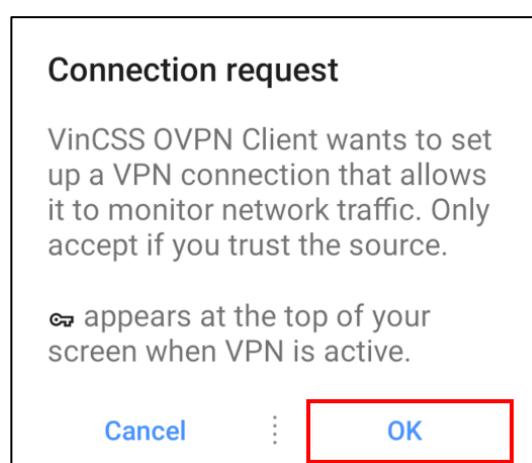
## II.4. Connect to VPN by the VinCSS OVPN application

*VinCSS FIDO2 application has registered a security key (registered at step II.2.1).*

- Open the VinCSS OVPN application, select the VPN profile to connect, click **CONNECT**.



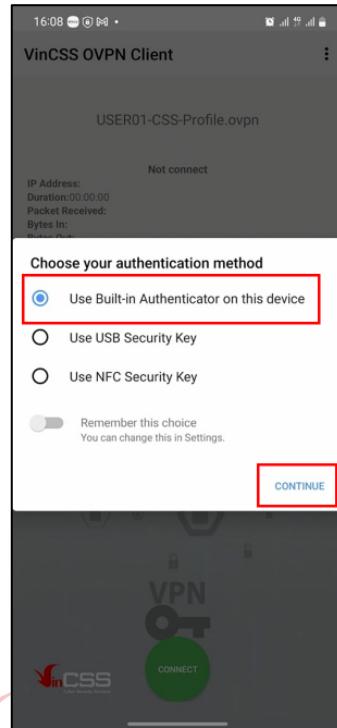
- When the **Connection request** dialog box appears, user selects **OK**.



**Notice:** The **Connection request** dialog box is only displayed when the VinCSS OVPN application is connected to the VPN for the first time. Or it can also be displayed when user reboots device or updates the latest version of the application.

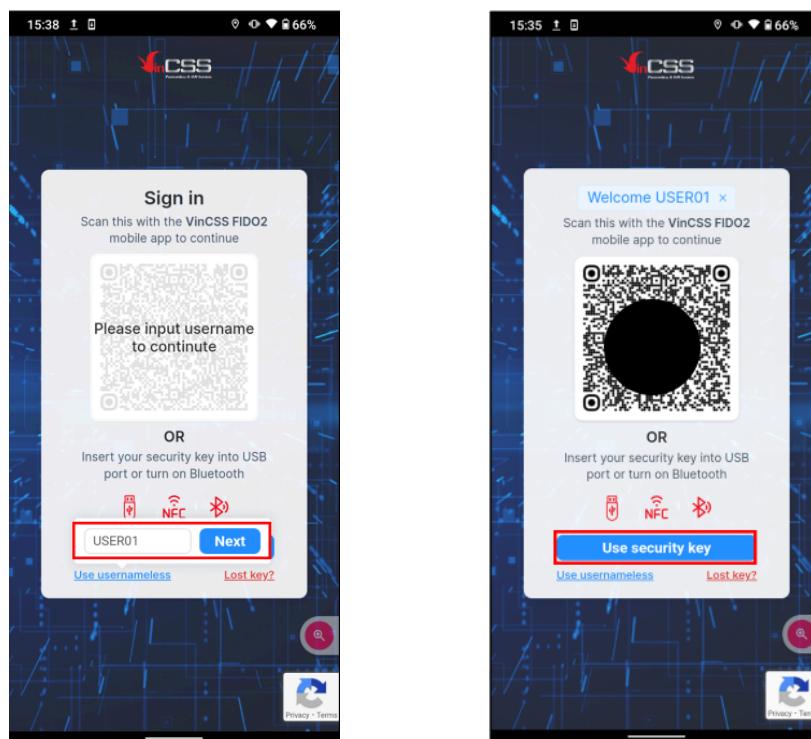
## II.4.1. Authenticate with the registered cyber key on VinCSS OVPN

- Select **Use Built-in Authenticator on this device**. Enable **Remember this choice** for future using if needed. Then click **Continue**.



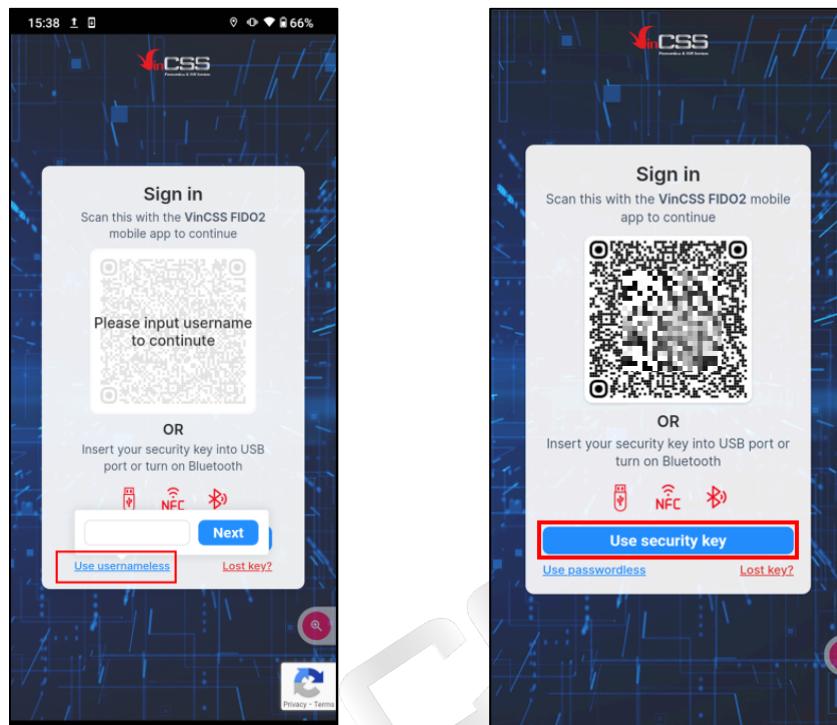
### II.4.1.1. Passwordless authentication

- Type **username (case insensitive)**, click **Next**. Then select **Use security key**.

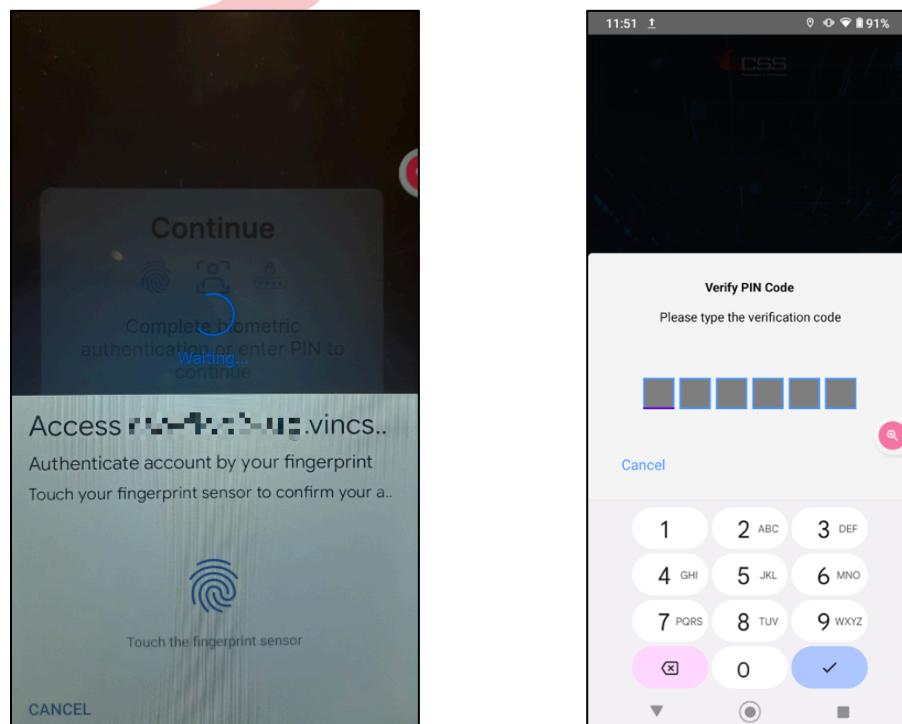


### II.4.1.2. Usernameless authentication

- In case the key is initialized with the option to use usernameless authentication, user can choose **Use Usernameless** instead of entering the **username** step. Then select **Use Security Key** to continue.



- The application interface will display a fingerprint scanning window or require entering the PIN code (*at the request of the device*) to confirm.

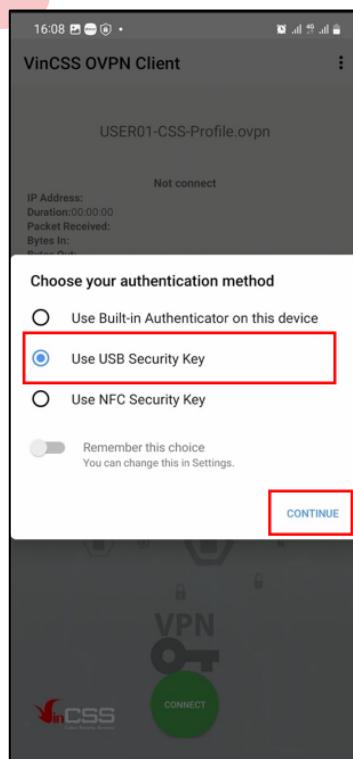


- After VPN is connected successfully, the information will be displayed on the screen.



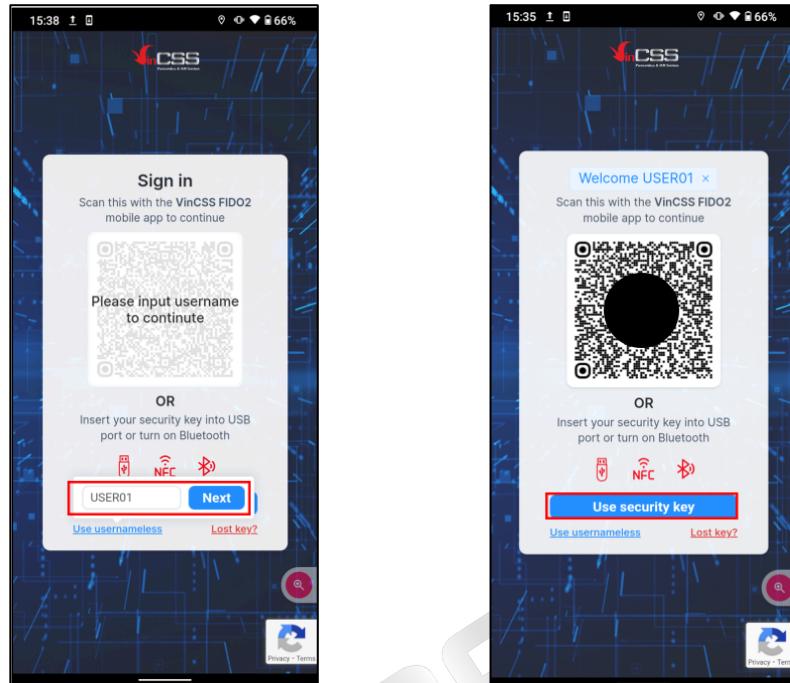
#### II.4.2. Authenticate with VinCSS FIDO2® Touch 1 security key

- Select **Use USB Security Key**. Then enable **Remember this choice** for future using (*if needed*), and click **CONTINUE**.



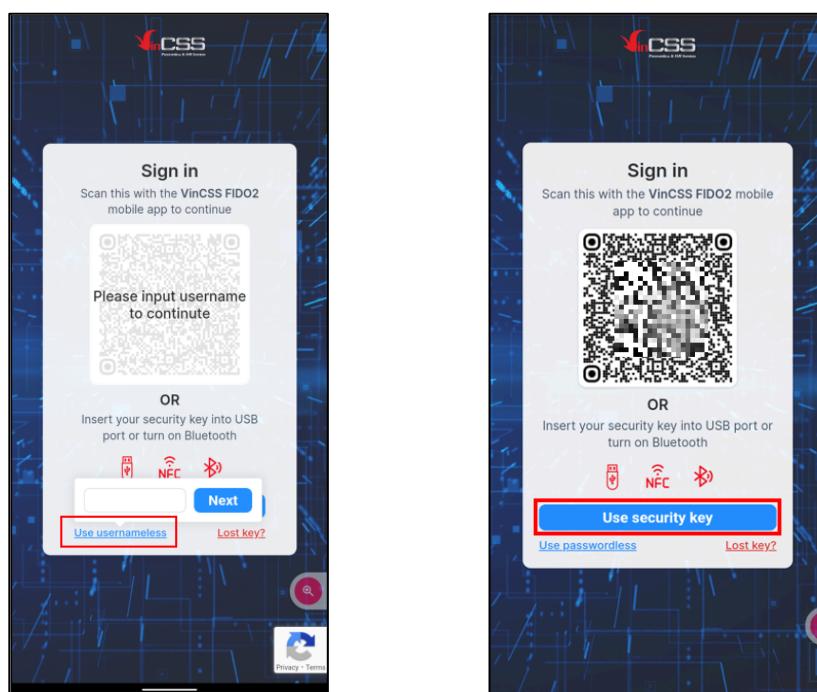
#### II.4.2.1. Passwordless authentication

- Enter **Username** (*case insensitive*), click **Next**. Attach VinCSS FIDO2® Touch1 security key to the phone and select **Use security key**.

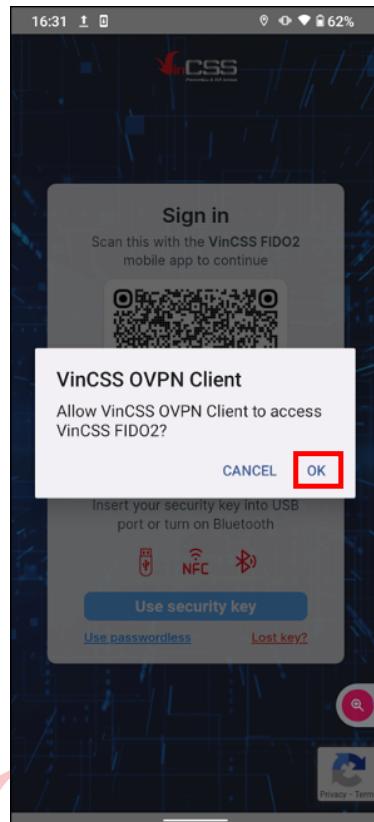


#### II.4.2.2. Usernameless authentication

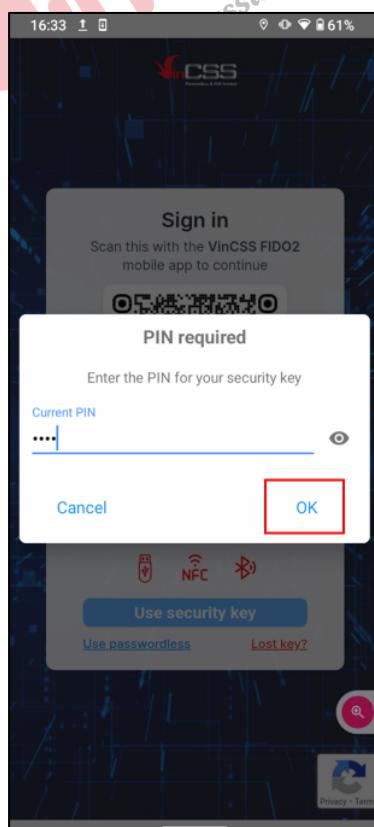
- In case the key is initialized with the option to use usernameless authentication, user can choose **Use Usernameless** instead of entering the **username** step. Attach VinCSS FIDO2® Touch1 security key to the phone and select **Use security key**.



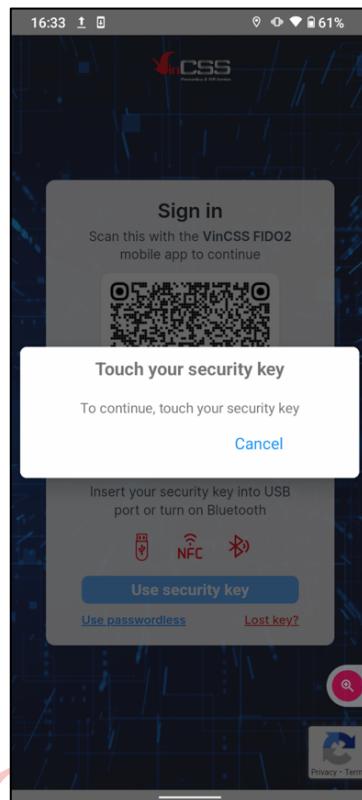
- Click “Ok” to allow VinCSS OVPN application to connect and use VinCSS FIDO2® Touch 1 key.



- Type the PIN code of VinCSS FIDO2® Touch 1 key, then click “OK”.



- Touch the yellow logo on VinCSS FIDO2® Touch 1 key to complete the authentication after receiving the notification.



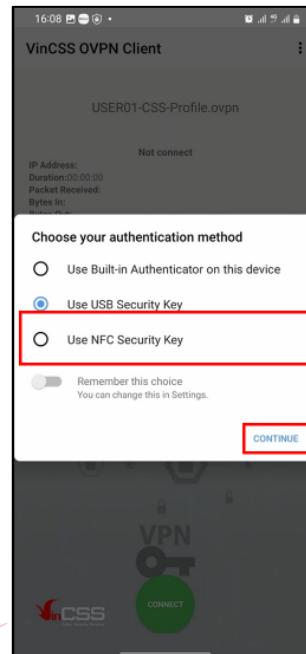
- After VPN is connected successfully, the information will be displayed on the screen.



## II.4.3. Authenticate with VinCSS FIDO2® Fingerprint key

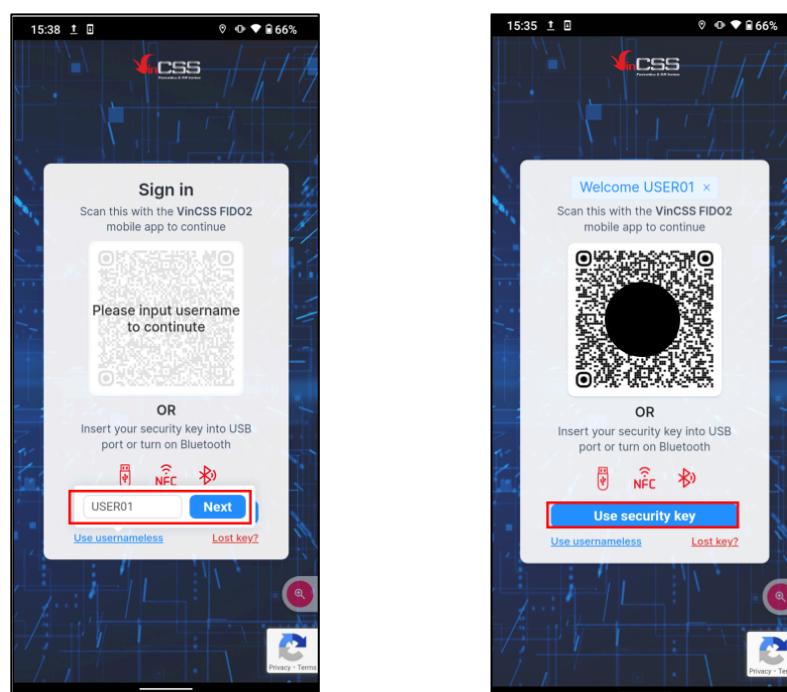
### II.4.3.1. Use USB Connection

- Select **Use USB Security Key**. Enable **Remember this choice** for future use (*if needed*), and click **CONTINUE**.



#### II.4.3.1.1. Passwordless authentication

- Enter **Username** (*case insensitive*), and click **Next**. Attach VinCSS FIDO2® Fingerprint security key to the phone via USB connection and select **Use security key**.

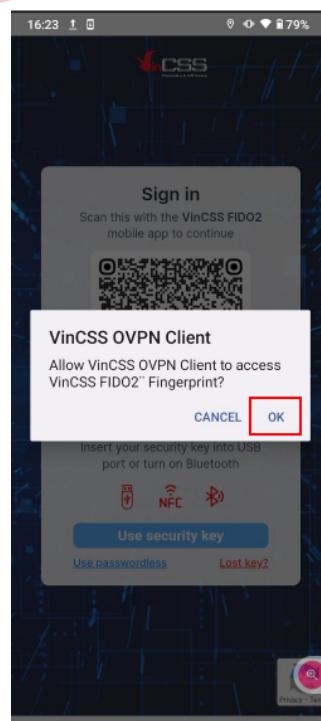


### II.4.3.1.2. Usernameless authentication

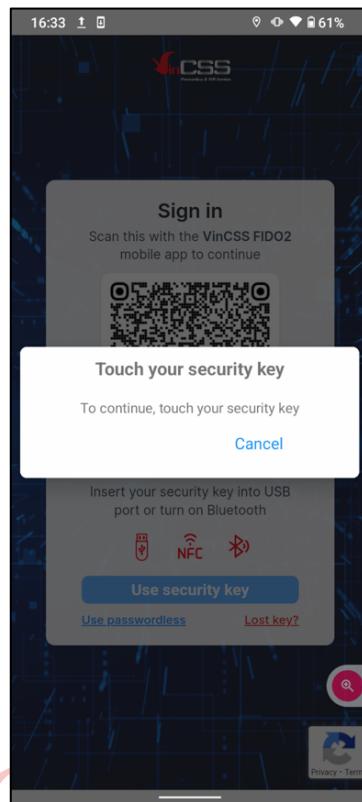
- In case the key is initialized with the option to use usernameless authentication, user can choose **Use Usernameless** instead of entering the **username** step. Attach VinCSS FIDO2® Fingerprint security key to the phone via USB connection and select **Use security key**.



- Click “Ok” to allow VinCSS OVPN application to connect and use VinCSS FIDO2® Fingerprint key.



- Scan your fingerprint on VinCSS FIDO2® Fingerprint when receiving a notification to complete the authentication process.

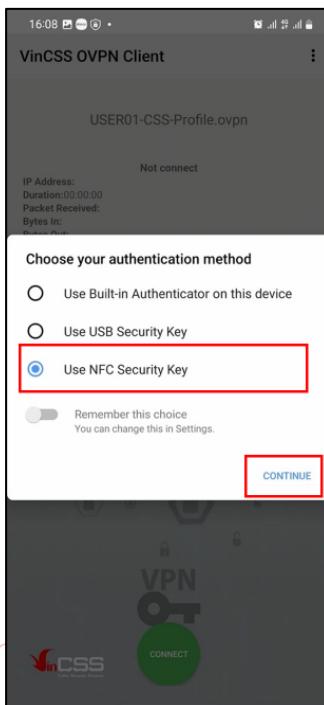


- After VPN is connected successfully, the information will be displayed on the screen.



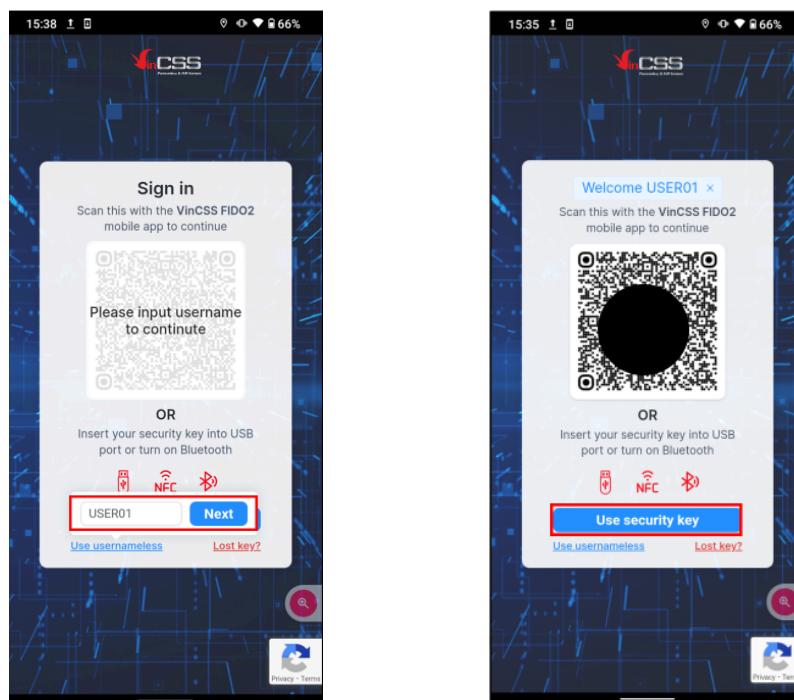
### II.4.3.2. Use NFC connection (Only available to NFC-enabled devices)

- Turn on NFC connection mode on your phone. Select **Use NFC Security Key**. Enable **Remember this choice** for future use (*if needed*), and click **CONTINUE**.



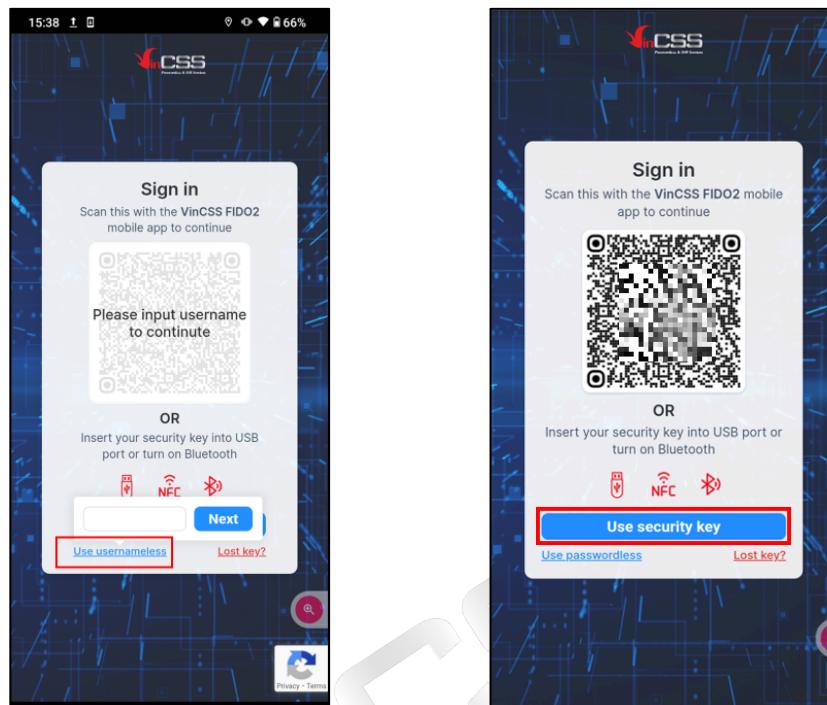
#### II.4.3.2.1. Passwordless authentication

- Type the **username** (*case insensitive*), click **Next**. Then select **Use security key**.

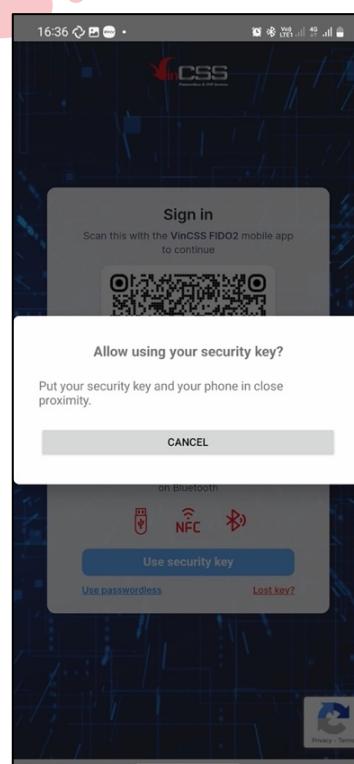


### II.4.3.2.2. Usernameless authentication

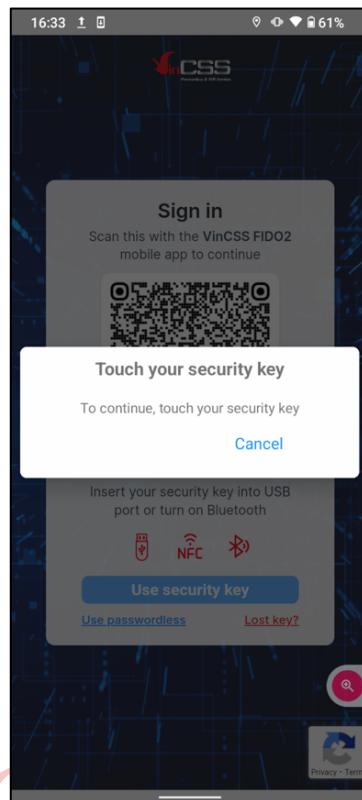
- In case the key is initialized with the option to use usernameless authentication, user can choose **Use Usernameless** instead of entering the **username** step. Then select **Use Security Key** to continue.



- Tap the security key on the back of your phone when you receive a notification.



- Scan your fingerprint on VinCSS FIDO2® Fingerprint when receiving a notification to complete the authentication process.

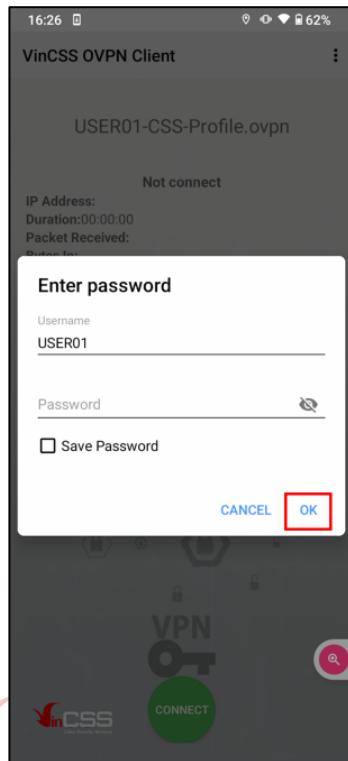


- After VPN is connected successfully, the information will be displayed on the screen.



#### II.4.4. Authenticate with Username/Password

- Enter **Password** (user can choose **Save Password** to save the password for the next-time login), then click **OK**.



- After VPN is connected successfully, the information will be displayed on the screen.



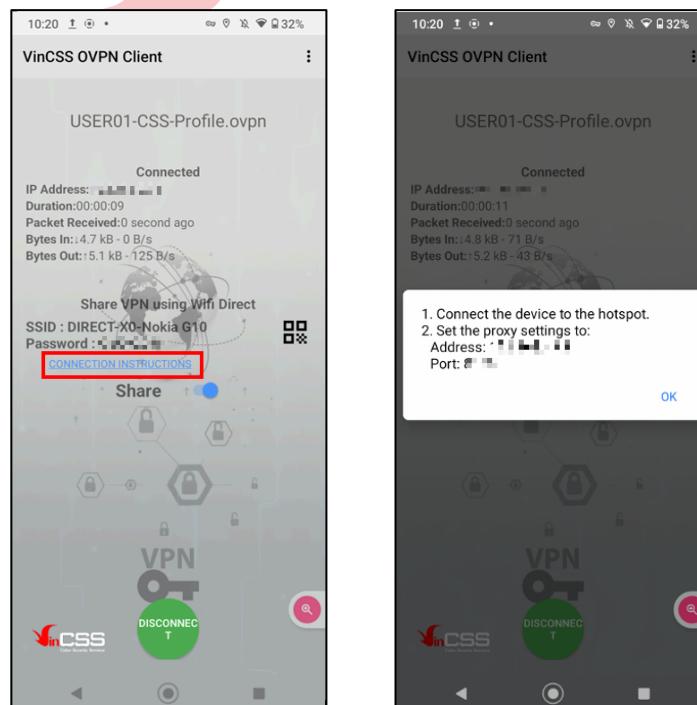
## II.5. VPN Connection Sharing

**Note:** This feature is only available on Android-based OVPN version.

- After VPN is connected successfully, user can use the VPN sharing feature to other devices using Wifi Direct by enabling **Share**.



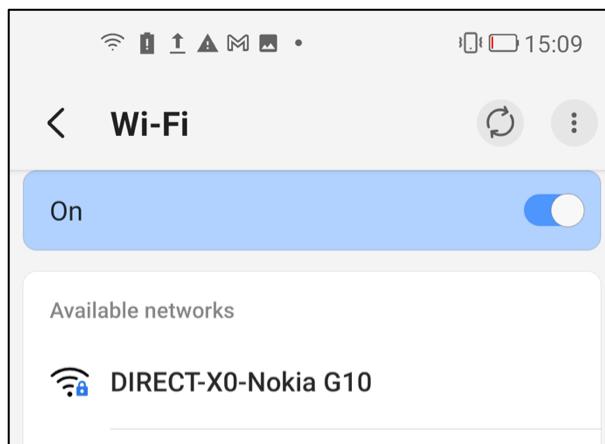
- When connection information is displayed on the screen, press **CONNECTION INSTRUCTIONS** to open the connection instructions.



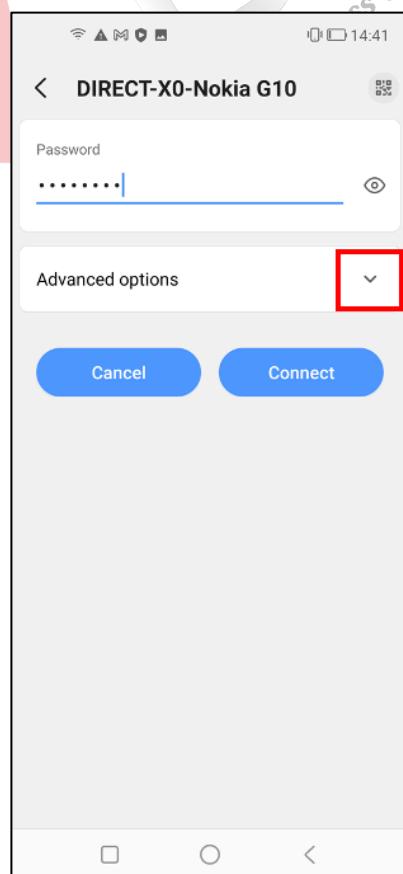
- There are 2 ways to connect to VPN: **Entering password** and **Scanning QR code**.

- **Enter password:**

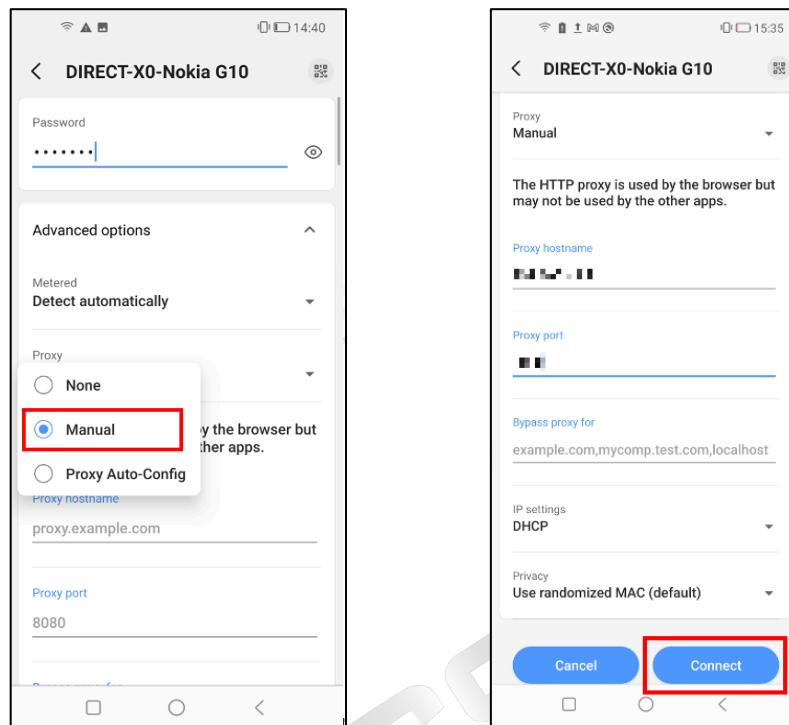
- On the device that needs to be connected, select **Settings > Connection > Wifi** (*for example, the connected device is Nokia G10*). Connect to Wifi Direct with corresponding SSID (*eg: Wifi direct name is DIRECT-X0-Nokia G10*).



- Enter the **Password** provided at the VinCSS OVPN app. Select **Advanced options**.

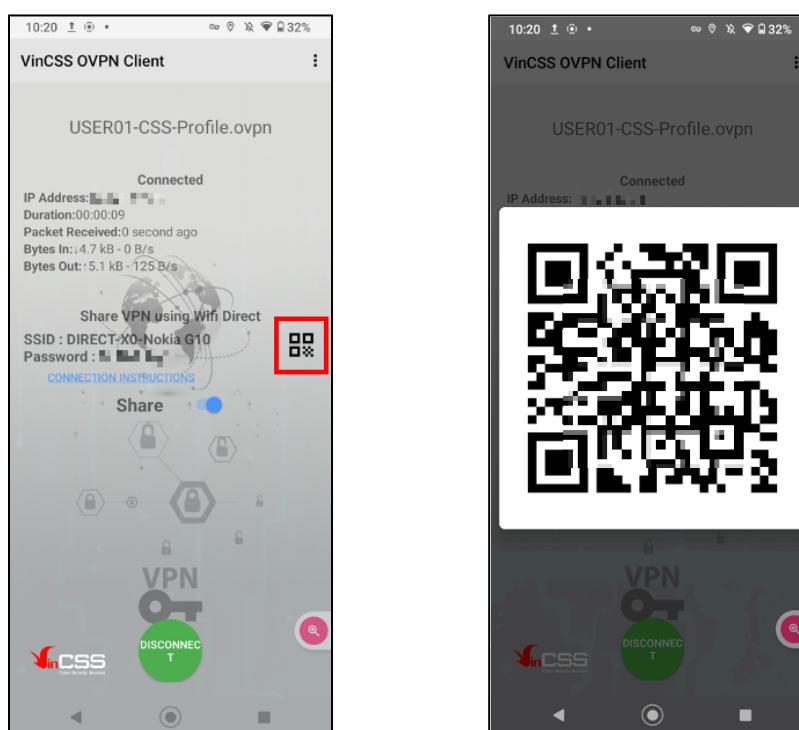


- In the **Proxy** section, select **Manual**. Enter the **Proxy hostname (Address)** and **Proxy port (Port)** information provided in the instructions above. Then select **Connect**.

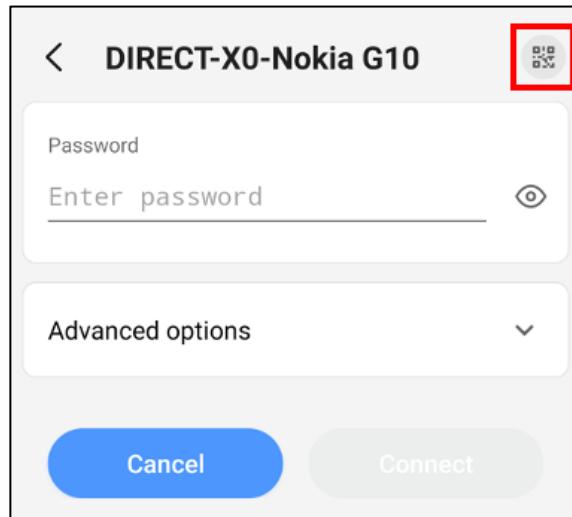


- Scan **QR code**:

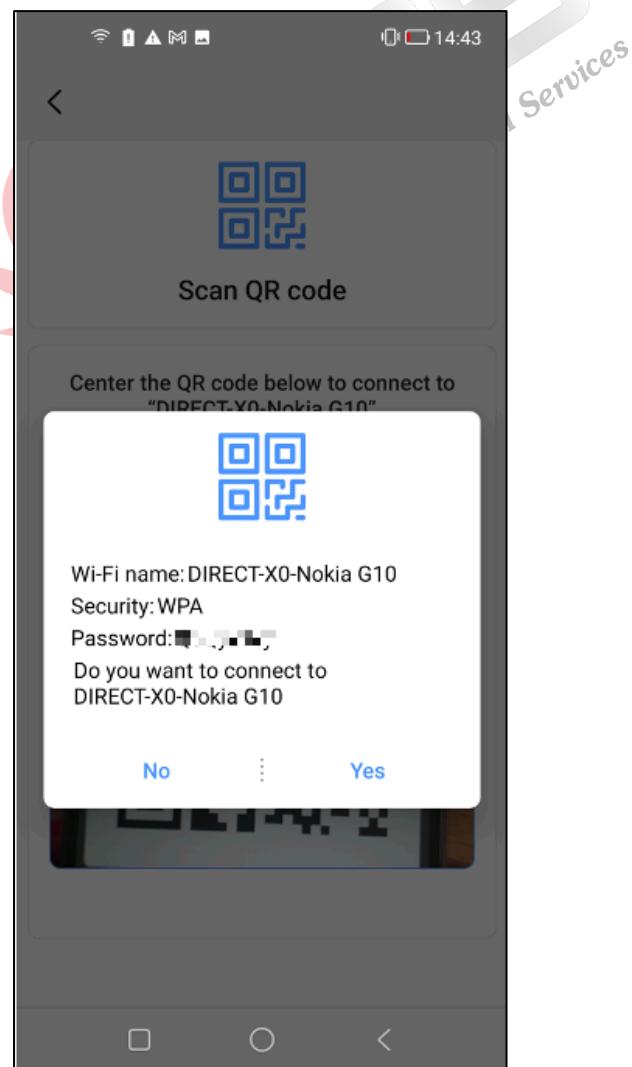
- On the VinCSS OVPN application interface, select the QR code icon on the right side of the screen. The application will then display the QR code window.



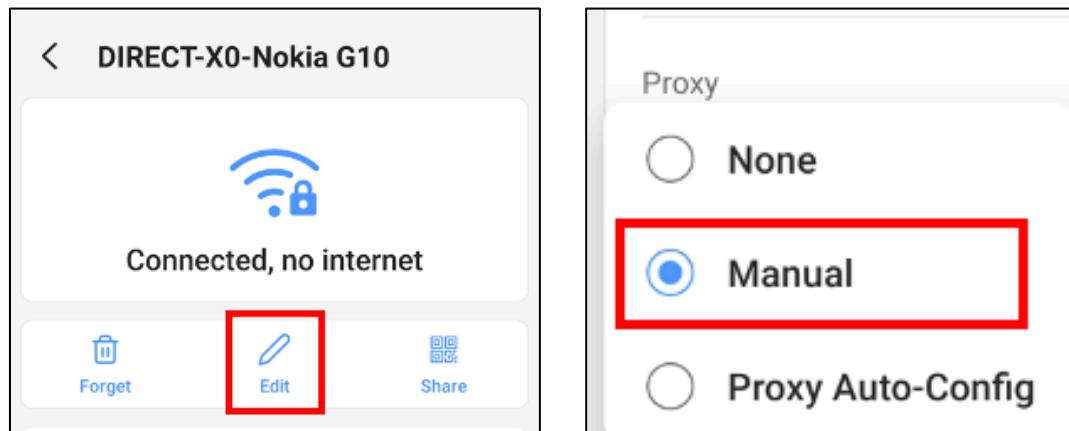
- On the connected device, select the QR code icon. Then proceed to scan the QR code.



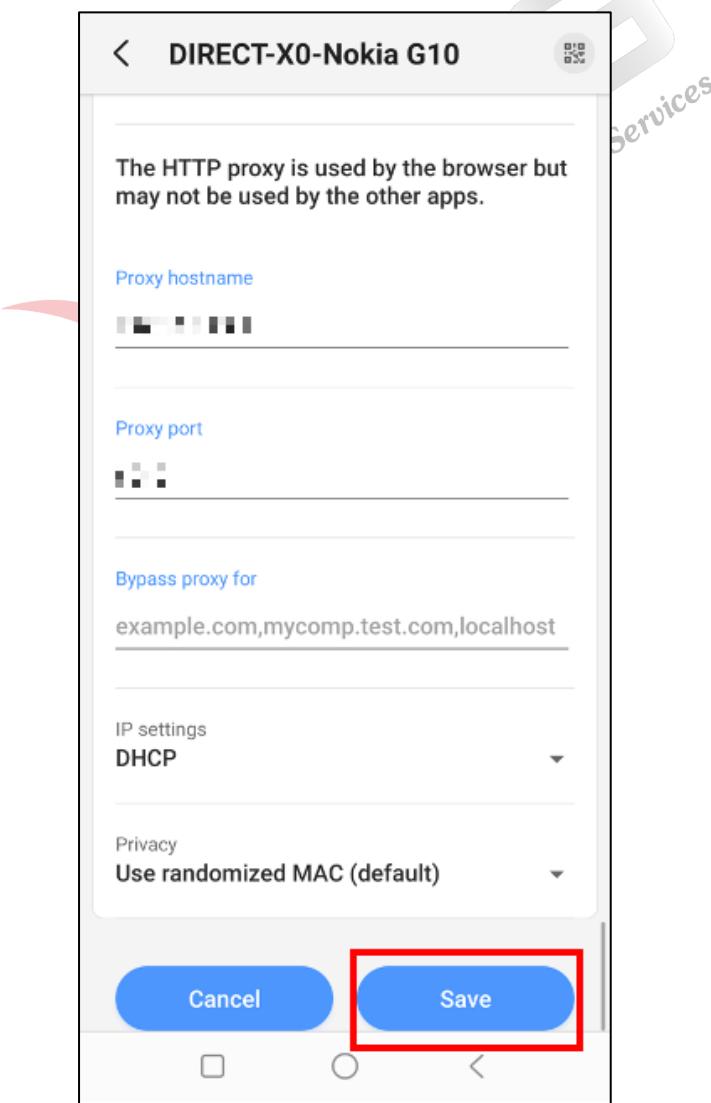
- The screen displays connection information. Select **Yes** to continue.



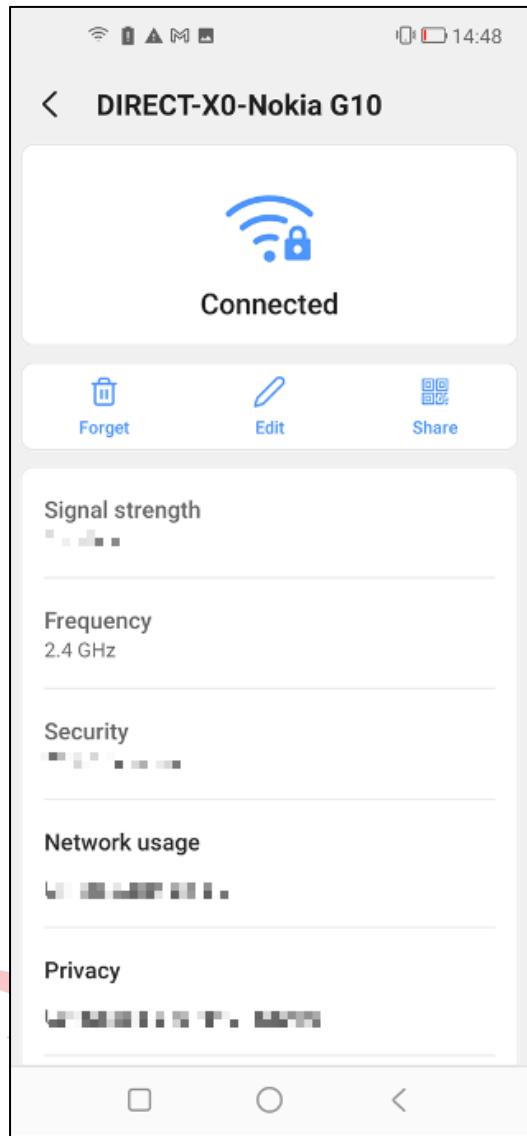
- Select the pen icon to change the **Proxy** information. In the **Proxy** section, select **Manual**.



- Enter the **Proxy hostname (Address)** and **Proxy port (Port)** information provided in the connection instructions above. Then select **Save**.



- The screen shows successful Wifi Direct connection information.



## REFERENCES

- VinCSS FIDO2 Ecosystem: <https://passwordless.vincss.net>
- VinCSS Youtube channel:  
[https://www.youtube.com/channel/UCNtS\\_7d4GtyecE2HCpJSr7g](https://www.youtube.com/channel/UCNtS_7d4GtyecE2HCpJSr7g)
- FAQs: <https://passwordless.vincss.net/en/support>
- VinCSS FIDO2® Touch 1 guide:  
<https://github.com/VinCSS-Public-Projects/FIDO2-Public-Documents/tree/main/VinCSS-FIDO2-Touch-1>
- VinCSS FIDO2® Fingerprint guide:  
<https://github.com/VinCSS-Public-Projects/FIDO2-Public-Documents/tree/main/VinCSS-FIDO2-Fingerprint>.

