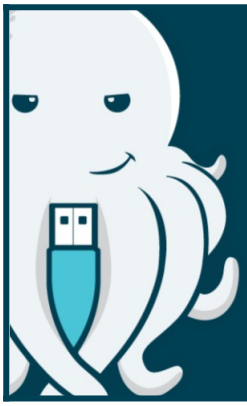


STRONGKEY

TELLARO SB2

YUBICO YUBIKEY 5C NFC USER'S GUIDE FOR macOS

NOTE: This document is for StrongKey customers, employees, suppliers and partners who will interact with the StrongKey Production SB2 cluster ("SB2PROD") for business operations.

COPYRIGHT & NOTICES

GETTING STARTED: YUBICO YUBIKEY 5C NFC & SB2PROD PLATFORM

This guide will help you set up your **Yubico Yubikey 5C NFC** by installing the necessary software and drivers. It also covers how to configure your Mac to access the **StrongKey Production SB2 cluster** ("SB2PROD").

The SB2PROD platform allows you to:

- **Securely share information** with StrongKey using the SKCC app.
- **Download Tellaro software releases** via the SKCD app.
- **Access new secure services** as StrongKey expands its customer support tools.

The StrongKey Support Team

PREREQUISITES

- MacOS 13 and above
- Safari 26.0.1
- Yubikey 5C NFC
- Internet connection
- USB-C port or USB-C-to-USB-A adapter

TABLE OF CONTENTS

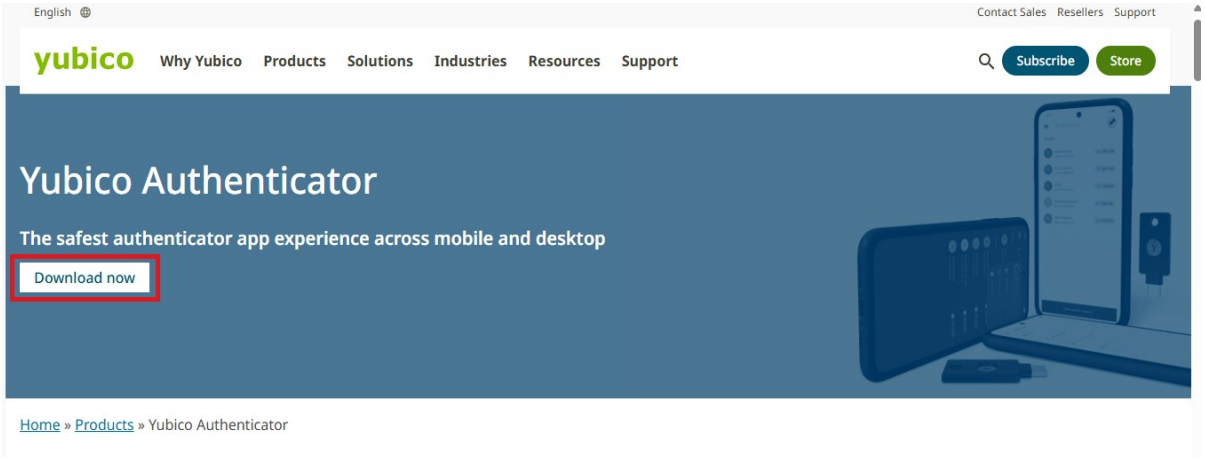
SECTION A

A1 INSTALLING THE YUBICO AUTHENTICATOR APPLICATION

The Yubico Authenticator appljcation is necessary to use the Yubico Yubikey 5C NFC Security Key.

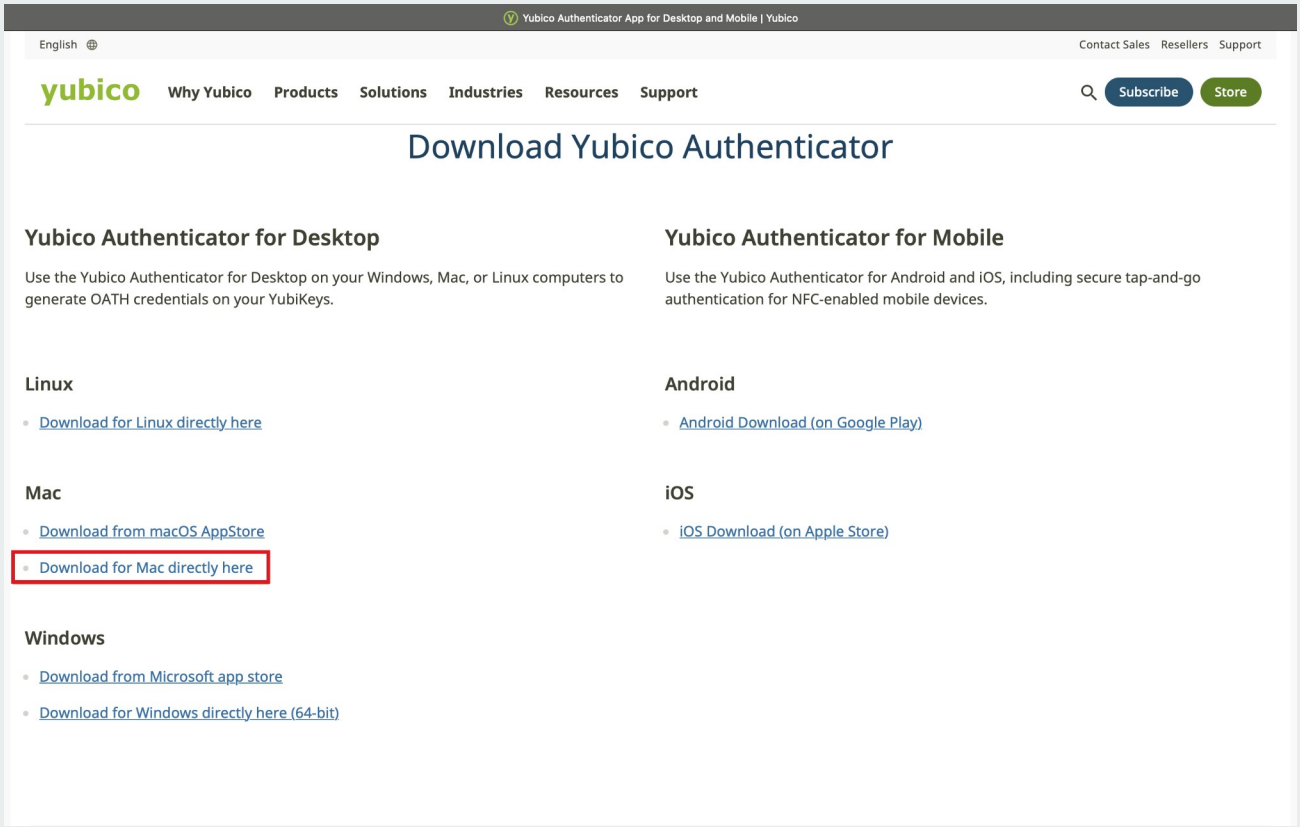
A2 DOWNLOAD YUBICO AUTHENTICATOR APPLICATION

Download the Yubico Authenticator for macOS systems from [https://www.yubico.com/products/yubico-authenticator/#h-download-yubico-authenticator.](https://www.yubico.com/products/yubico-authenticator/#h-download-yubico-authenticator)



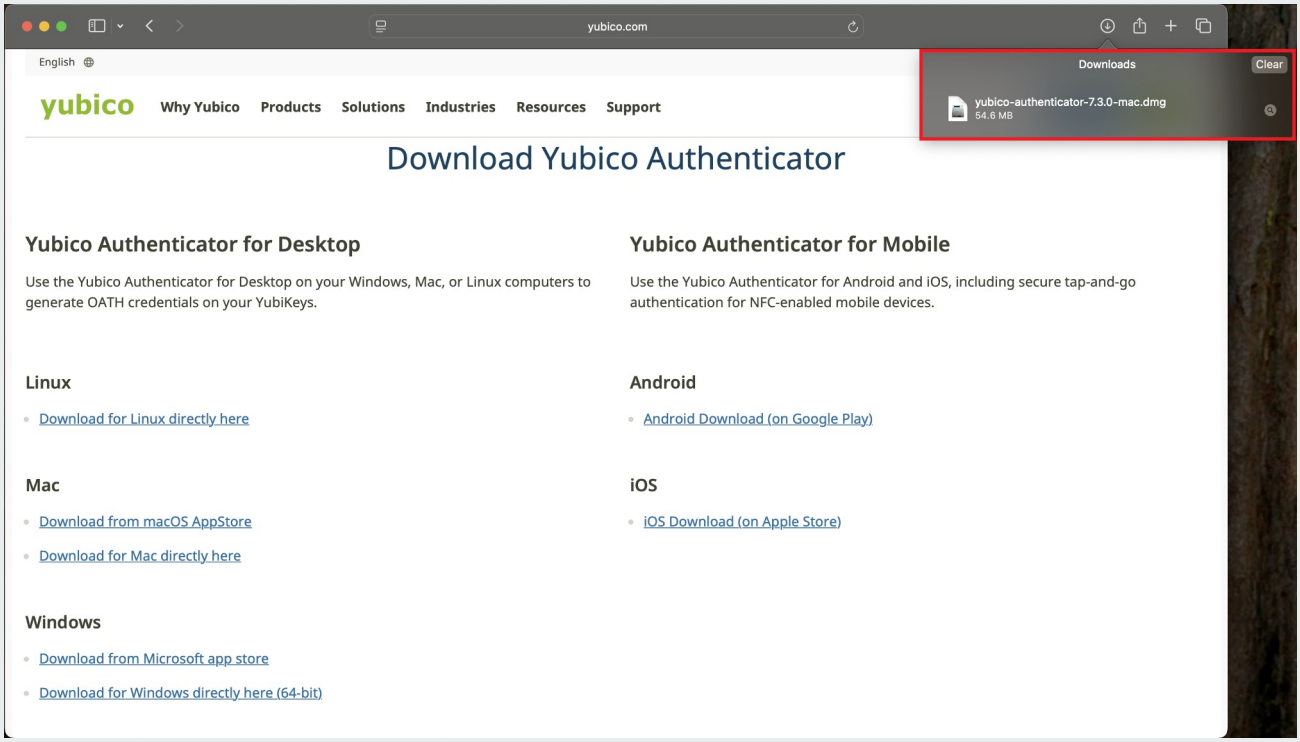
macOS YUBICO AUTHENTICATOR APPLICATION

Select **"Download for Mac directly here." Click it** to start download.



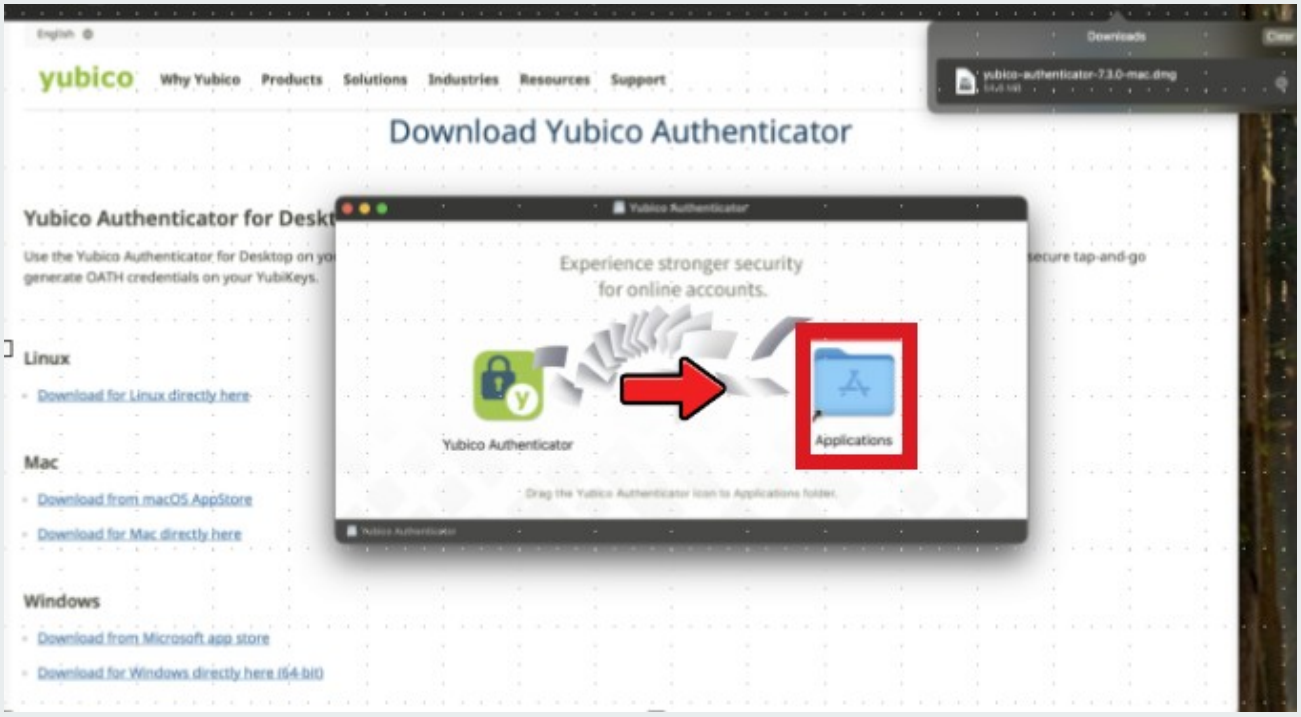
A4 OPENING THE YUBICO AUTHENTICATOR APPLICATION FILE

After clicking the download link, Safari will display a pop-up confirming the Authenticator application file has been successfully downloaded and ready for installation. **Double-Click the file to open the installer.**



A5 MOVE AUTHENTICATOR APP TO THE APPLICATIONS FOLDER

When the installer window appears, **Drag the Yubico Authenticator icon to the Applications folder.**



A6 AUTHENTICATE TO CONTINUE INSTALLATION

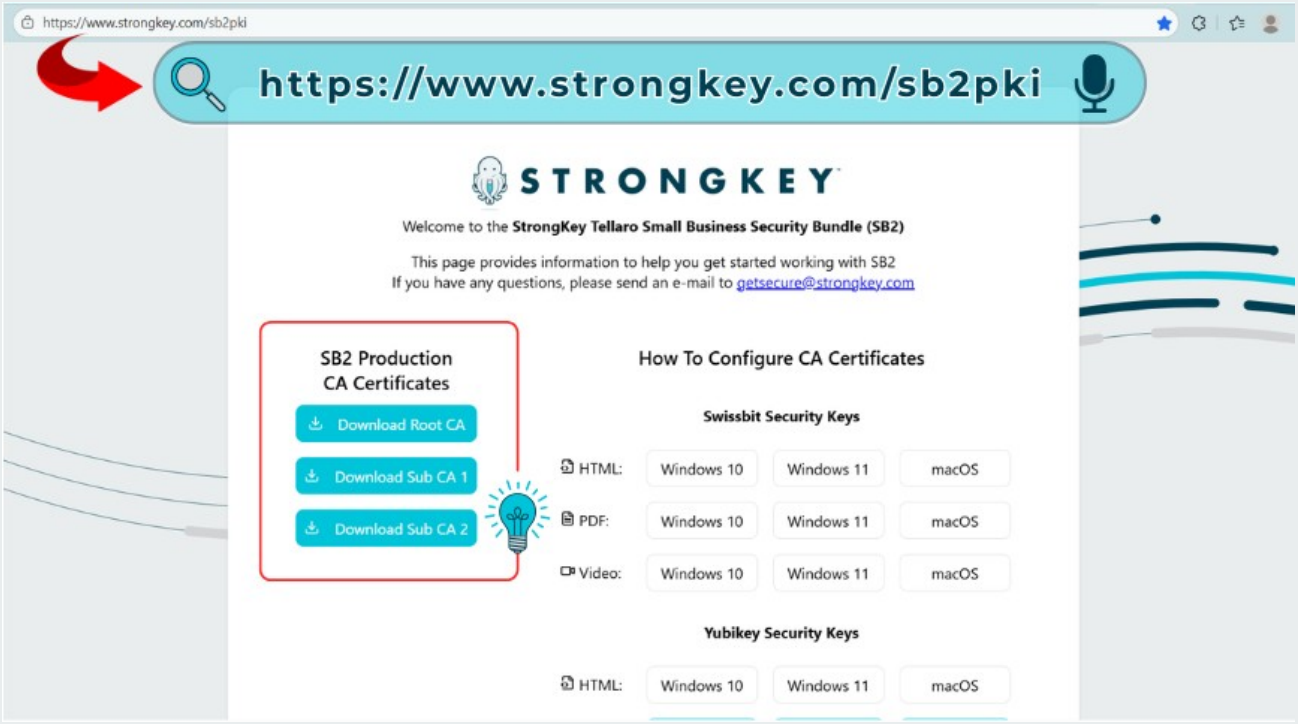
After dragging the **Yubico Authenticator** application to the **Applications folder**, macOS will prompt for **TouchID** or **Mac Account Password** to continue and complete the installation.

B1 IMPORTING SB2 ROOT CA & SB2 SUBORDINATE CA CERTIFICATES ON macOS KEYCHAIN ACCESS

When using Security Keys with digital certificates for authentication to an SB2 site, the SB2 Root Certificate Authority (CA) certificate of the site is a critical component in establishing trust between your browser and the site. It ensures the digital certificate on your Security Key was issued by that SB2 site and is currently valid.

B2 ACCESS THE SB2PKI PAGE

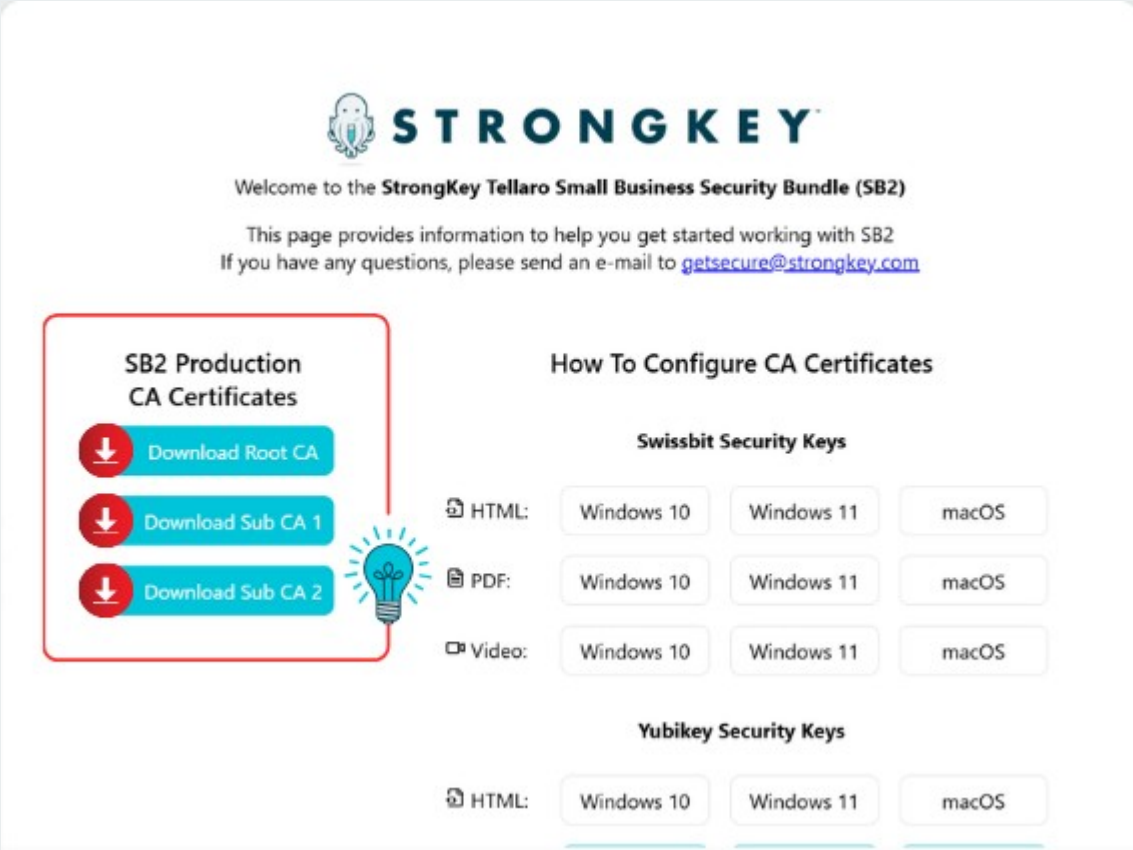
All required CA certificates are available for download from the SB2PKI page at https://www.strongkey.com/sb2pki



B3 SB2 CA CERTIFICATES

On the SB2 PKI page, the following digital certificate files are available – they must be downloaded by clicking their individual **Download** buttons:

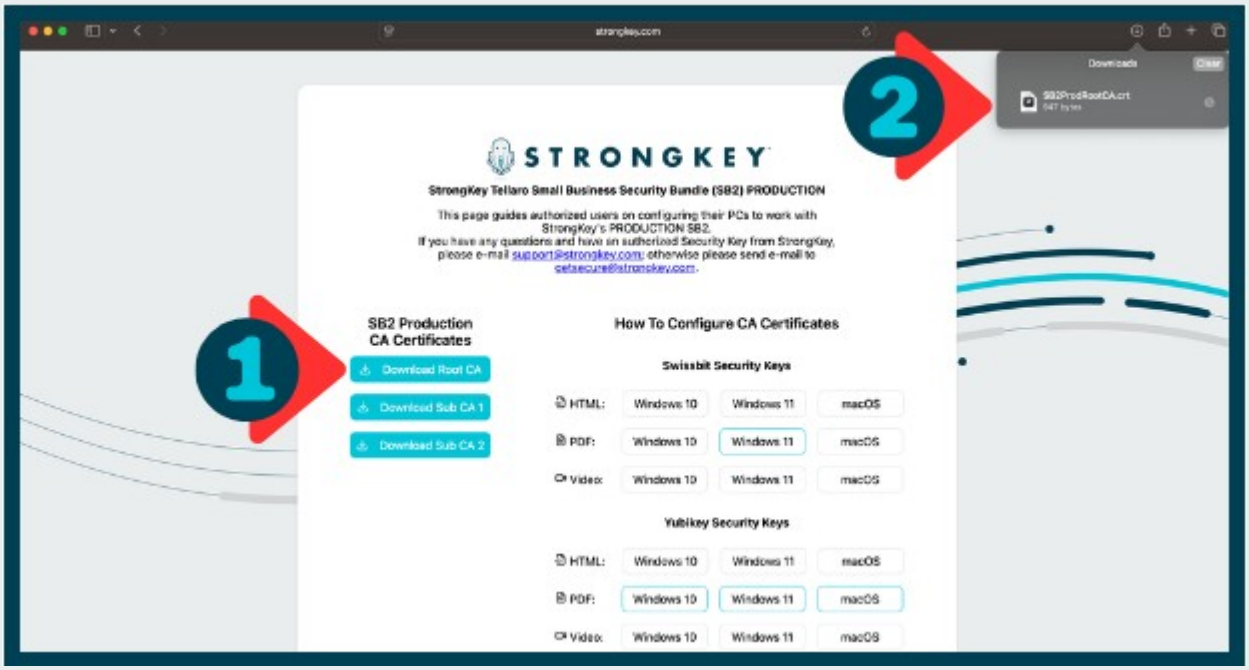
- **Download Root CA** (SB2ProdRootCA.crt)
- **Download Sub CA 1** (SB2ProdSubordinateCA1.crt)
- **Download Sub CA 2** (SB2ProdSubordinateCA2.crt)



B4 DOWNLOADING THE SB2 ROOT CA

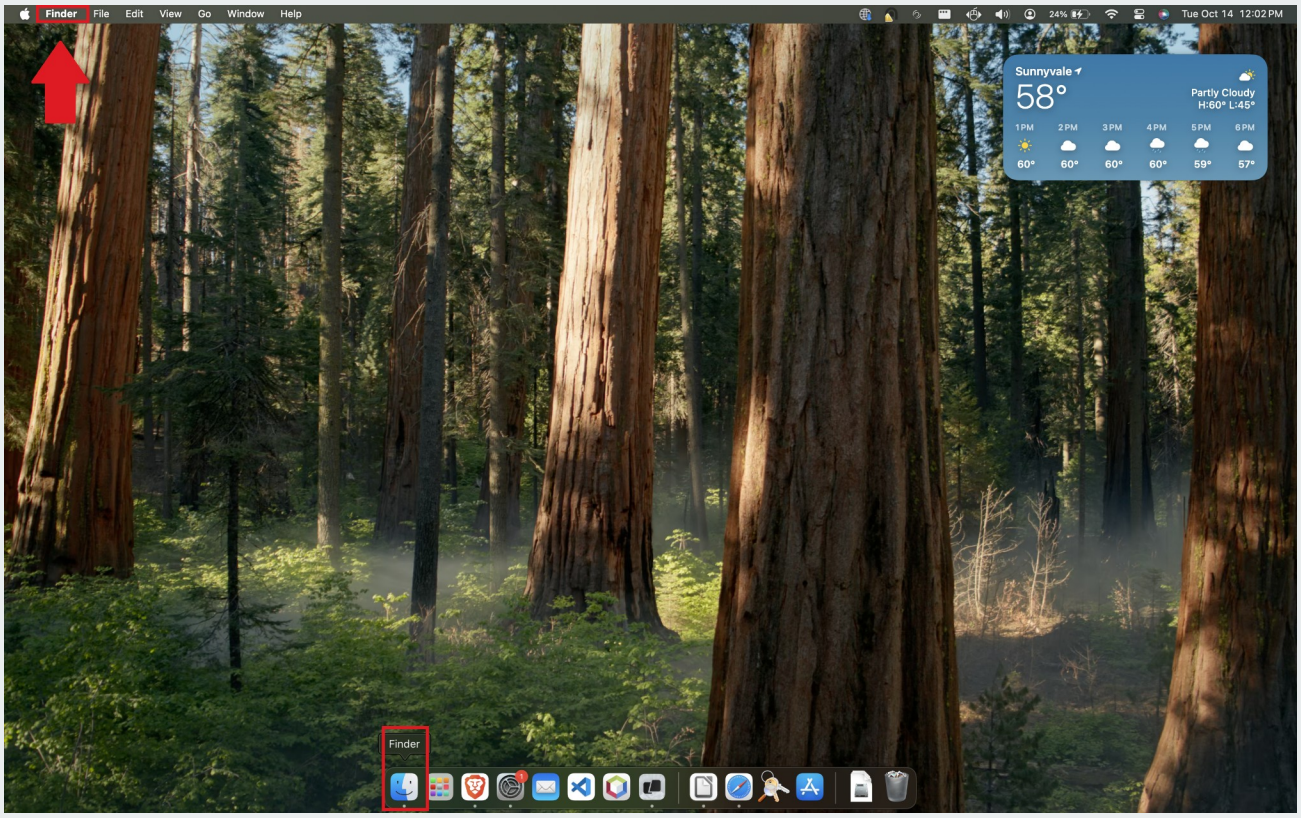
First, click the **Download Root CA button** (1). The download will begin automatically, and you'll see a dialog box confirming the file name once the process is complete (2).

REPEAT this process for the Sub CA 1 and Sub CA 2 certificates.



B5 ACCESS macOS FINDER

To get started installing the certificates, open the **Finder** application by clicking its icon in the **Dock** or by selecting it from the menu in the upper left corner of your screen.

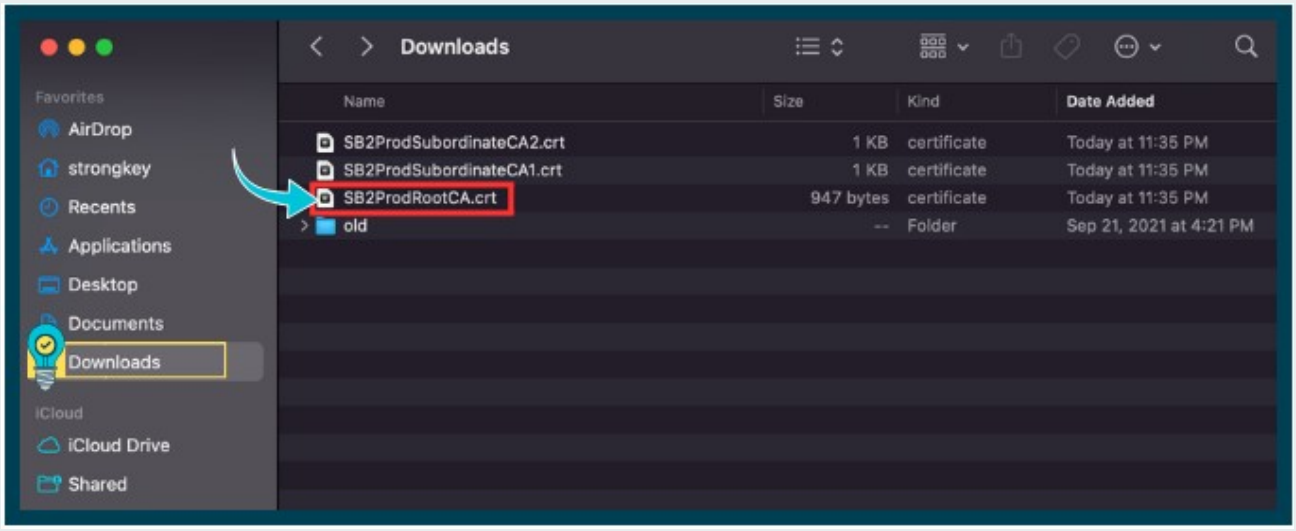


B6 LOCATE DOWNLOADED SB2 ROOT CA FILE

Navigate to the **Downloads** folder in **Finder**. Locate the **SB2 Root CA file** and **right-click** it.

NOTE

Please note that your specific **SB2 certificate files** may have a different name. Ensure you know the correct file name before proceeding.



B7 OPEN KEYCHAIN ACCESS

Launch **Keychain Access** by searching with **Spotlight** [⌘ + Space] (refer to Image 1), or by navigating to **Applications** in **Finder** (see Image 2).

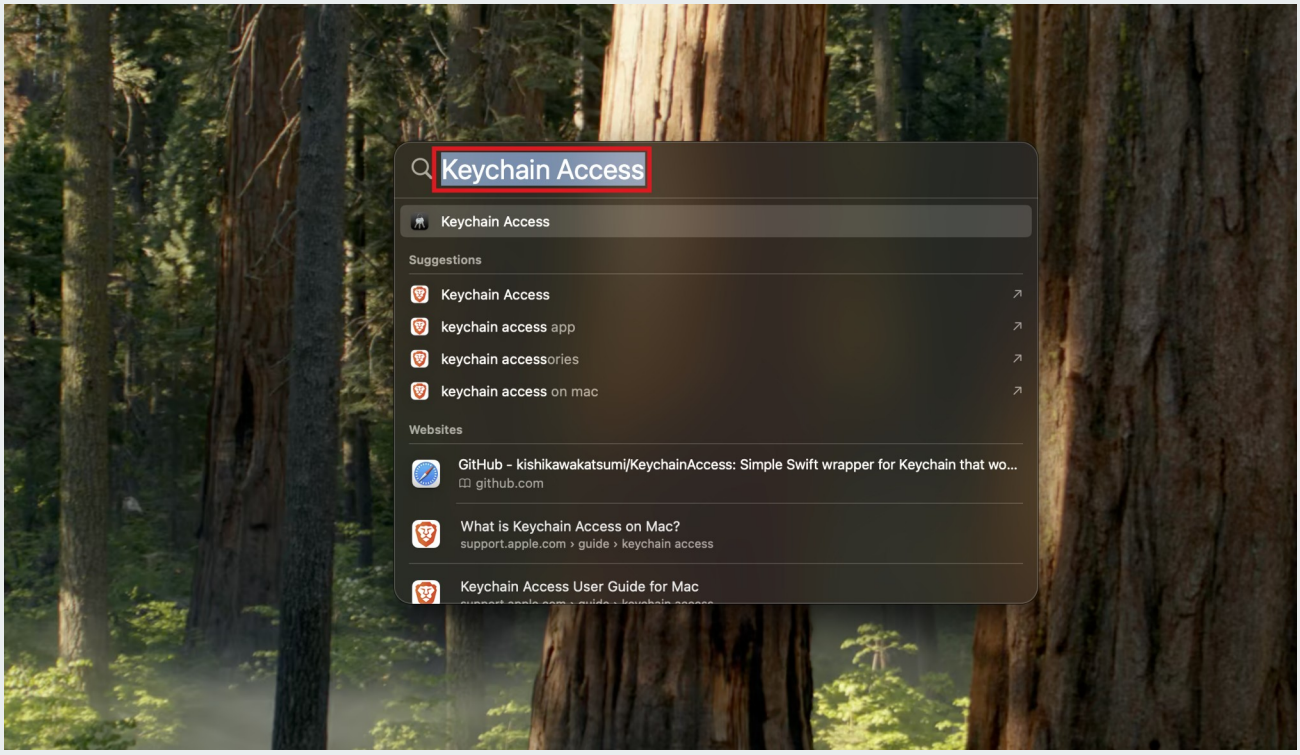


Image 1

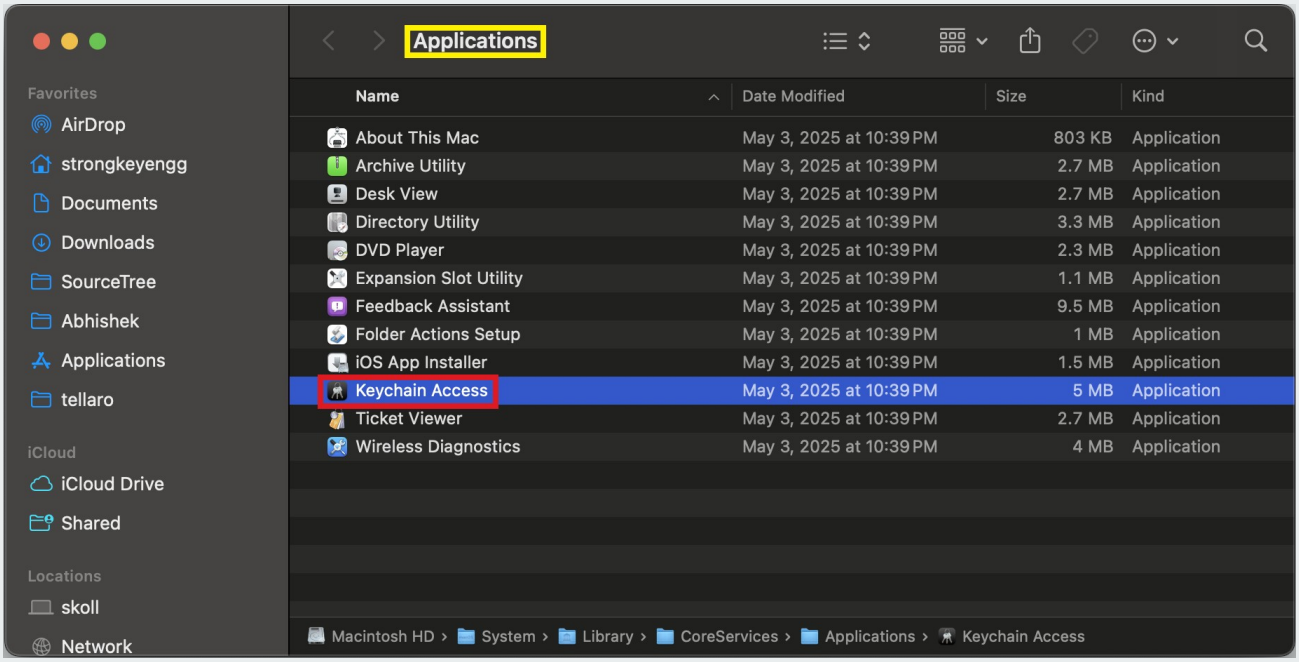
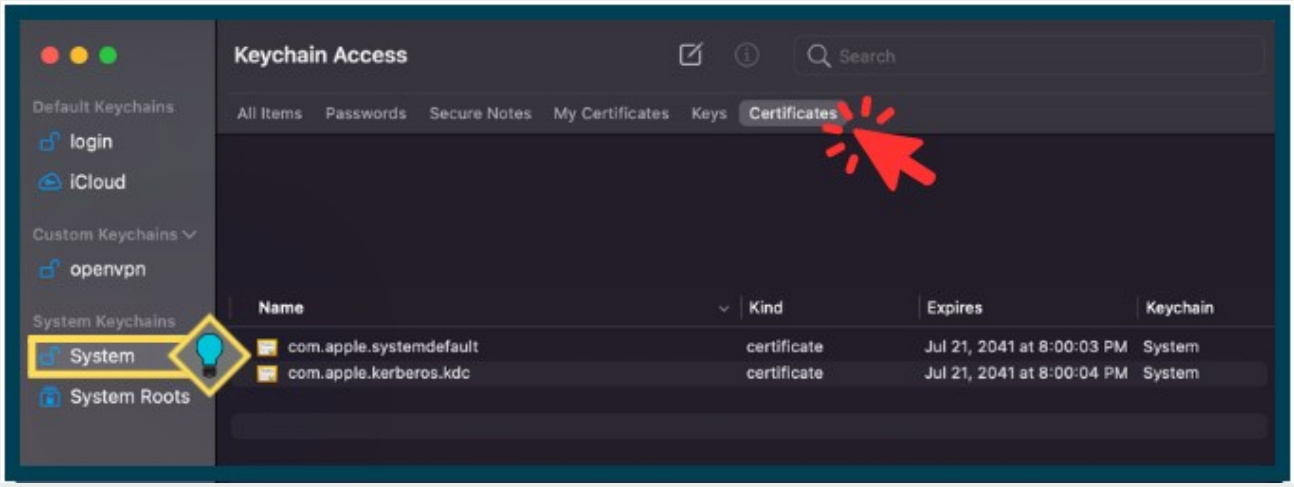

Applications
Favorites
AirDrop
strongkeyengg
Documents
Downloads
SourceTree
Abhishek
Applications
tellaro
iCloud
iCloud Drive
Shared
Locations
skoll
Network
Name
Date Modified
Size
Kind
About This Mac May 3, 2025 at 10:39 PM 803 KB Application
Archive Utility May 3, 2025 at 10:39 PM 2.7 MB Application
Desk View May 3, 2025 at 10:39 PM 2.7 MB Application
Directory Utility May 3, 2025 at 10:39 PM 3.3 MB Application
DVD Player May 3, 2025 at 10:39 PM 2.3 MB Application
Expansion Slot Utility May 3, 2025 at 10:39 PM 1.1 MB Application
Feedback Assistant May 3, 2025 at 10:39 PM 9.5 MB Application
Folder Actions Setup May 3, 2025 at 10:39 PM 1 MB Application
iOS App Installer May 3, 2025 at 10:39 PM 1.5 MB Application
Keychain Access May 3, 2025 at 10:39 PM 5 MB Application
Ticket Viewer May 3, 2025 at 10:39 PM 2.7 MB Application
Wireless Diagnostics May 3, 2025 at 10:39 PM 4 MB Application
Macintosh HD › System › Library › CoreServices › Applications › Keychain Access

Image 2

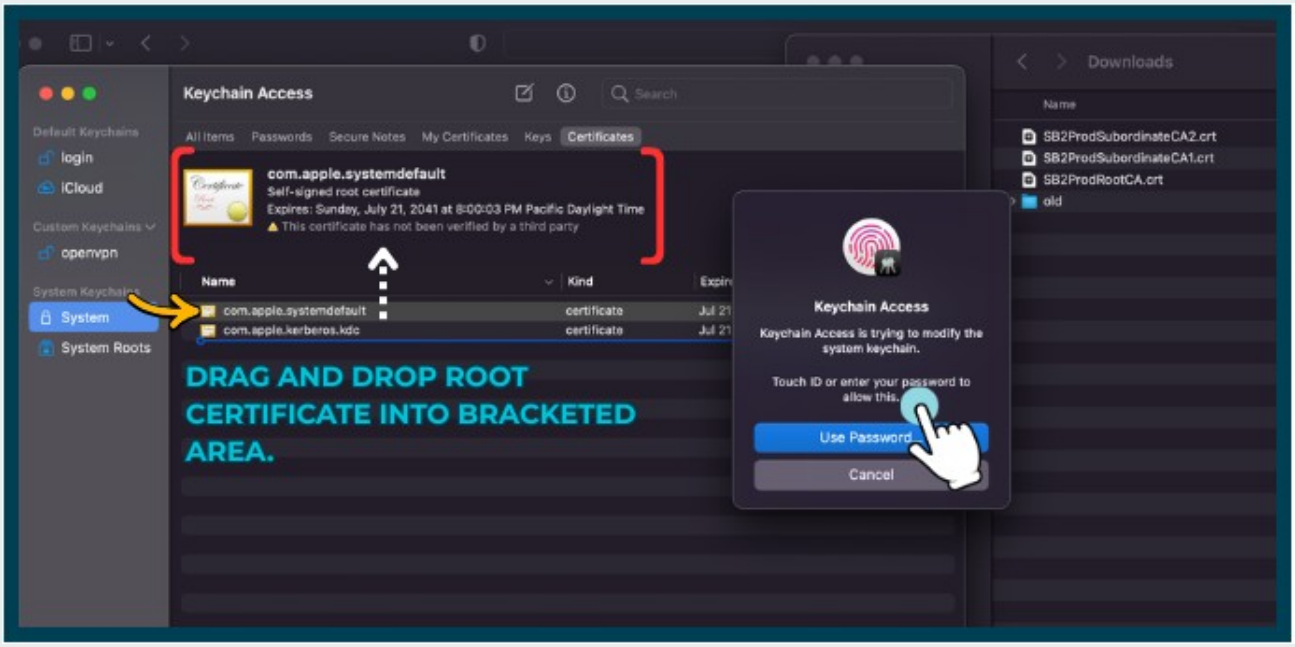
B8 NAVIGATING IN THE KEYCHAIN ACCESS APPLICATION

After launching the **KeyChain Access** application, the following screen appears. Select **System** in the sidebar, followed by **Certificates** in the top menu.



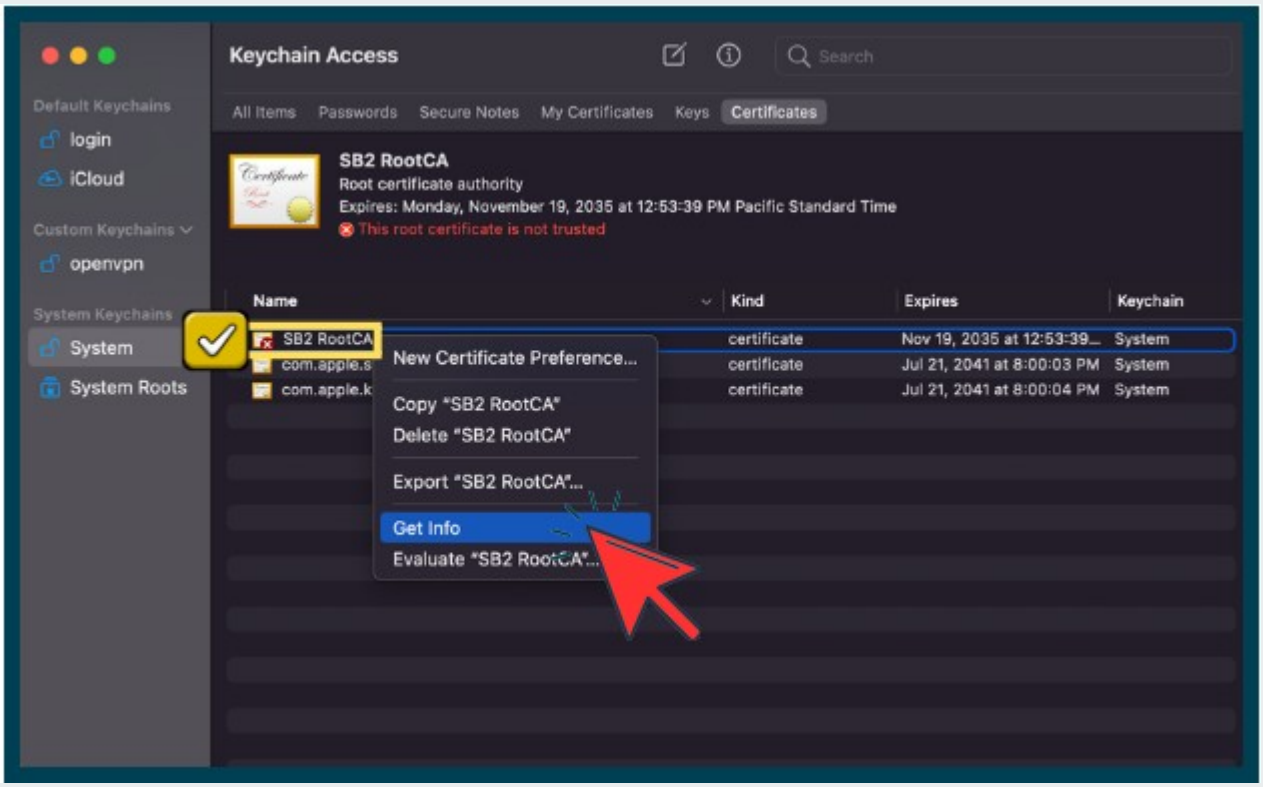
B9 IMPORTING CERTIFICATES

Next, drag the **Root Certificate** into the **Keychain Access** window to begin the certificate import process. The macOS will prompt you to authenticate using Touch ID or an account password to complete the import.



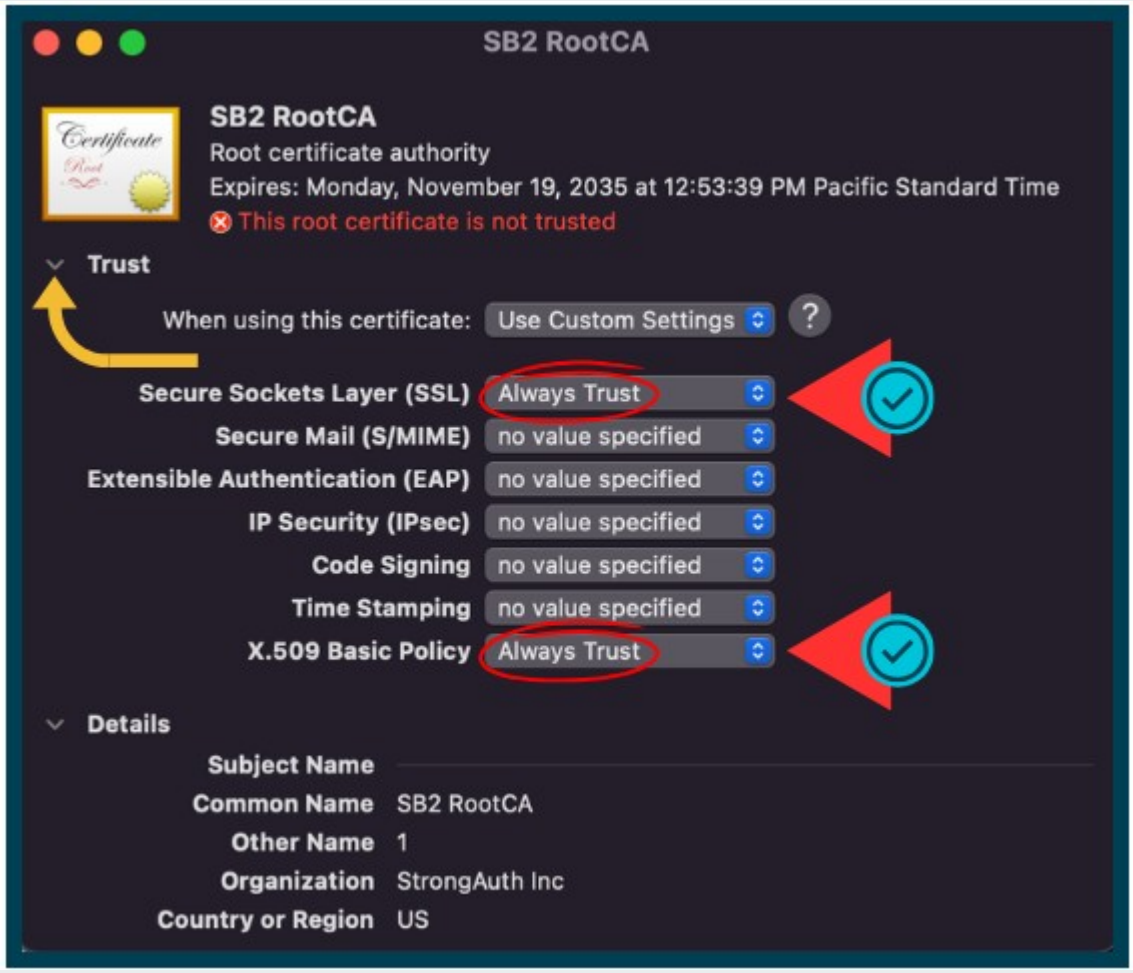
B10 ACCESS THE SB2 ROOTCA CERTIFICATE

Right-click on the imported **SB2 RootCA** certificate, then select **Get Info** to view its details.



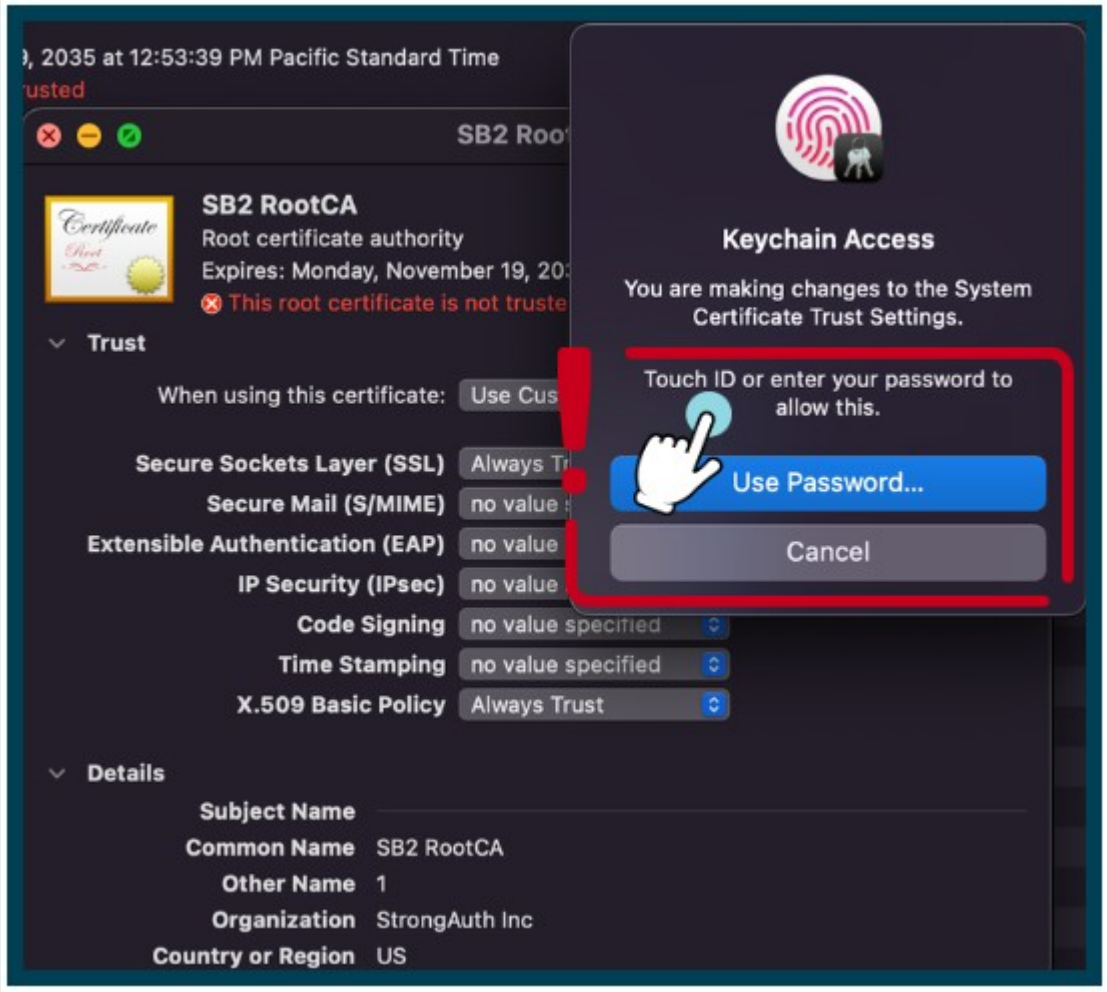
B11 TRUST THE SB2 ROOTCA CERTIFICATE

To view the **Trust** details, click the down arrow next to the Trust option. Then, select **Always Trust** for both **Secure Sockets Layer** (SSL) and **X.509 Basic Policy**.



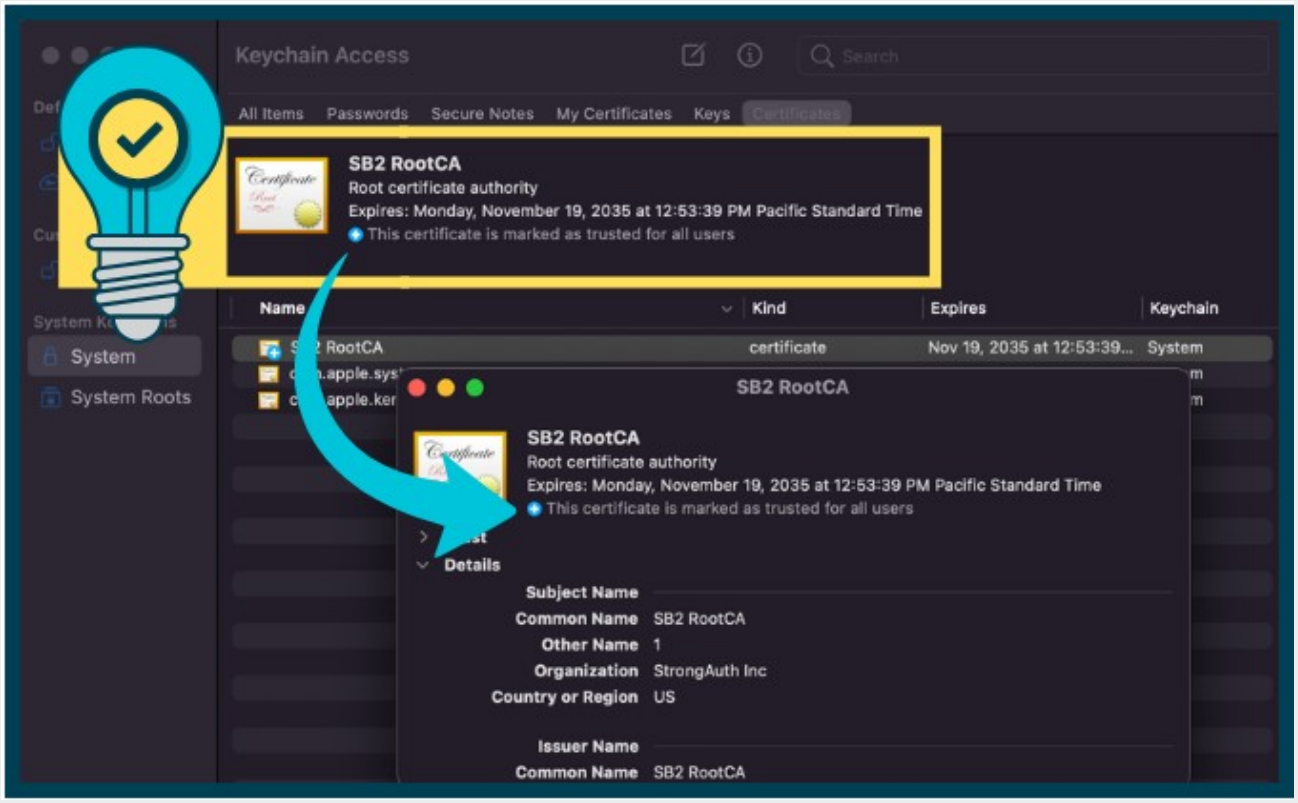
B12 AUTHENTICATING THE CHANGES TO THE SB2 ROOTCA CERTIFICATE

After the SB2 RootCA **Get Info** window is closed, macOS prompts for authentication, using either **Touch ID** or the **macOS account password**, to confirm changes to the Trust settings.



B13 CONFIRMING THE TRUST CHANGES

Click **Next** to continue. To confirm the trust settings, **right-click** the SB2 RootCA certificate and select **Get Info**. A successful import and **trust** is indicated by the message: ***"This certificate is marked as trusted for all users."***



B14 ACCESSING THE DOWNLOADED SUBORDINATE ROOT CERTIFICATE FILES

To get started, launch **Keychain Access** by searching with **Spotlight** [⌘ + Space] (refer to Image 1), or by navigating to **Applications** in **Finder** (see Image 2).

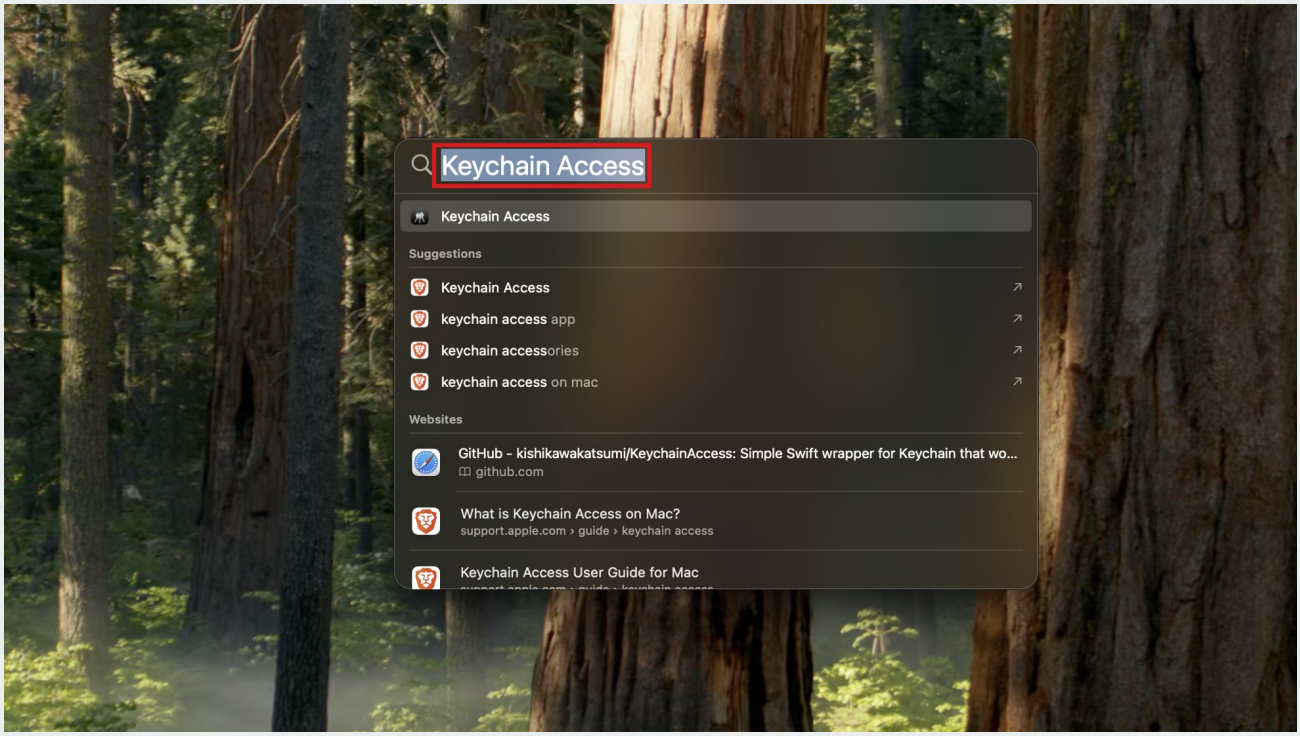
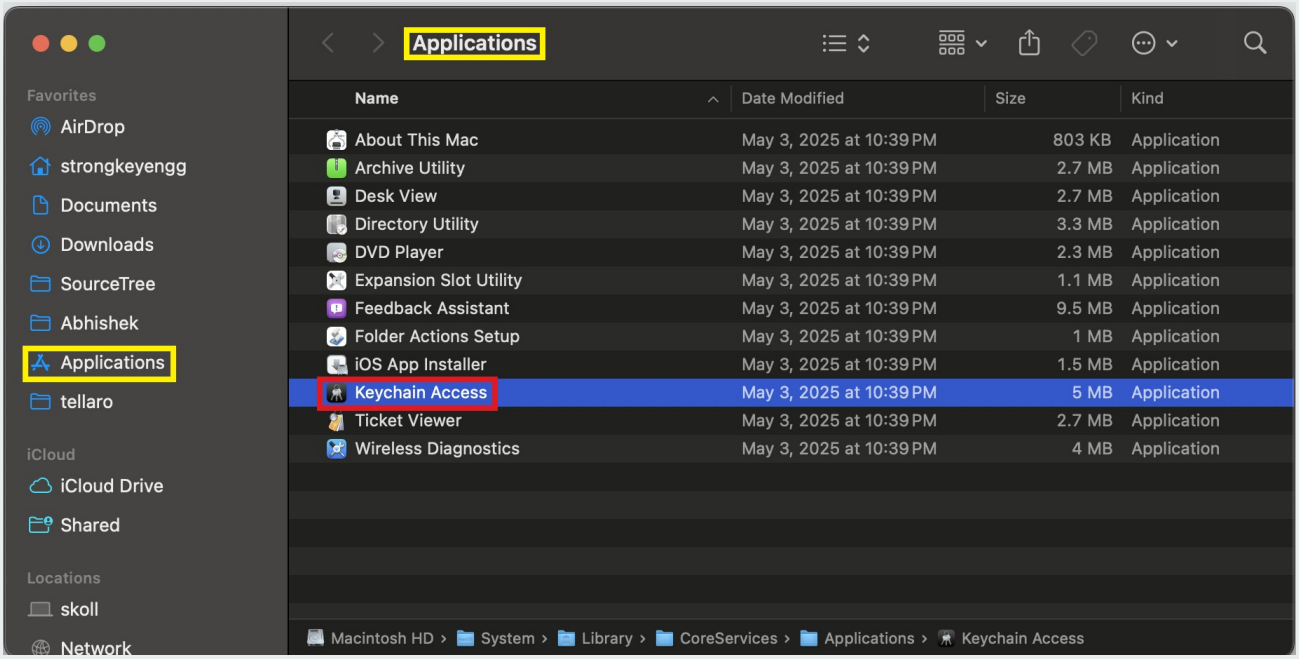


Image 1


Applications
Favorites
AirDrop
strongkeyengg
Documents
Downloads
SourceTree
Abhishek
Applications
tellaro
iCloud
iCloud Drive
Shared
Locations
skoll
Network
Name
Date Modified
Size
Kind
About This Mac May 3, 2025 at 10:39 PM 803 KB Application
Archive Utility May 3, 2025 at 10:39 PM 2.7 MB Application
Desk View May 3, 2025 at 10:39 PM 2.7 MB Application
Directory Utility May 3, 2025 at 10:39 PM 3.3 MB Application
DVD Player May 3, 2025 at 10:39 PM 2.3 MB Application
Expansion Slot Utility May 3, 2025 at 10:39 PM 1.1 MB Application
Feedback Assistant May 3, 2025 at 10:39 PM 9.5 MB Application
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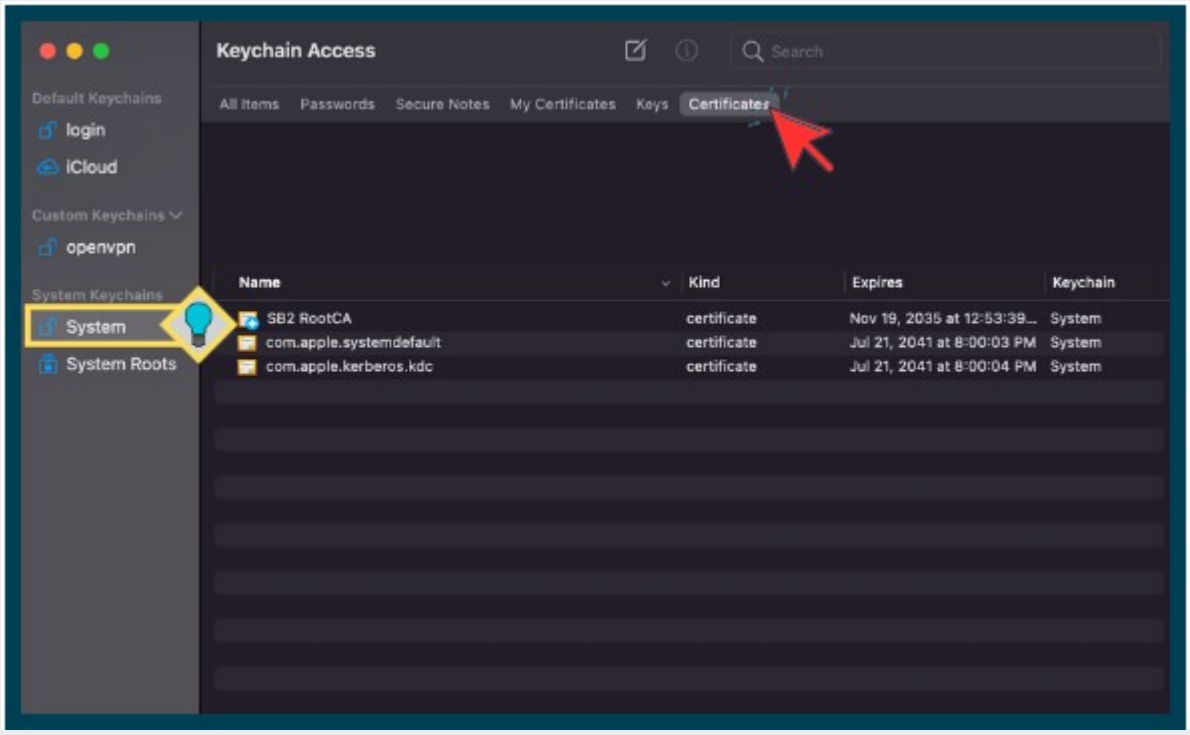
iOS App Installer May 3, 2025 at 10:39 PM 1.5 MB Application
Keychain Access May 3, 2025 at 10:39 PM 5 MB Application
Ticket Viewer May 3, 2025 at 10:39 PM 2.7 MB Application
Wireless Diagnostics May 3, 2025 at 10:39 PM 4 MB Application
Macintosh HD › System › Library › CoreServices › Applications › Keychain Access

Image 2

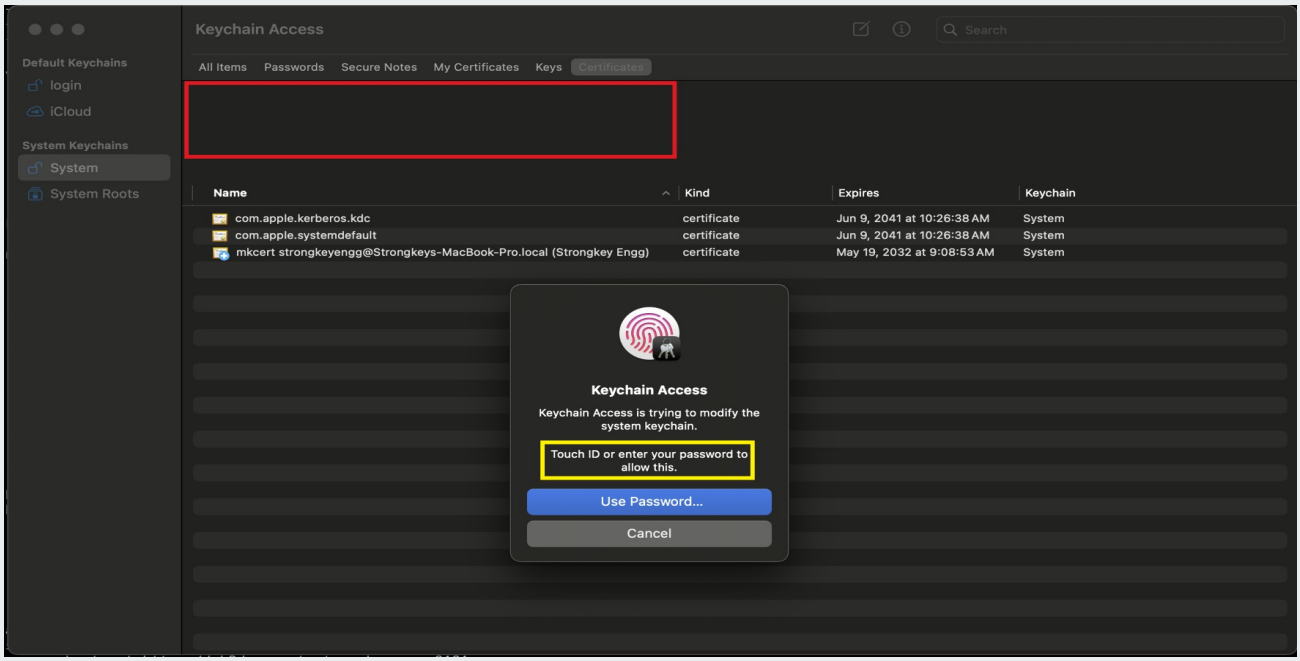
B15 NAVIGATING IN THE KEYCHAIN ACCESS APPLICATION

After launching the **KeyChain Access** application, the following screen appears. Select **System** in the sidebar, followed by **Certificates** in the top menu.



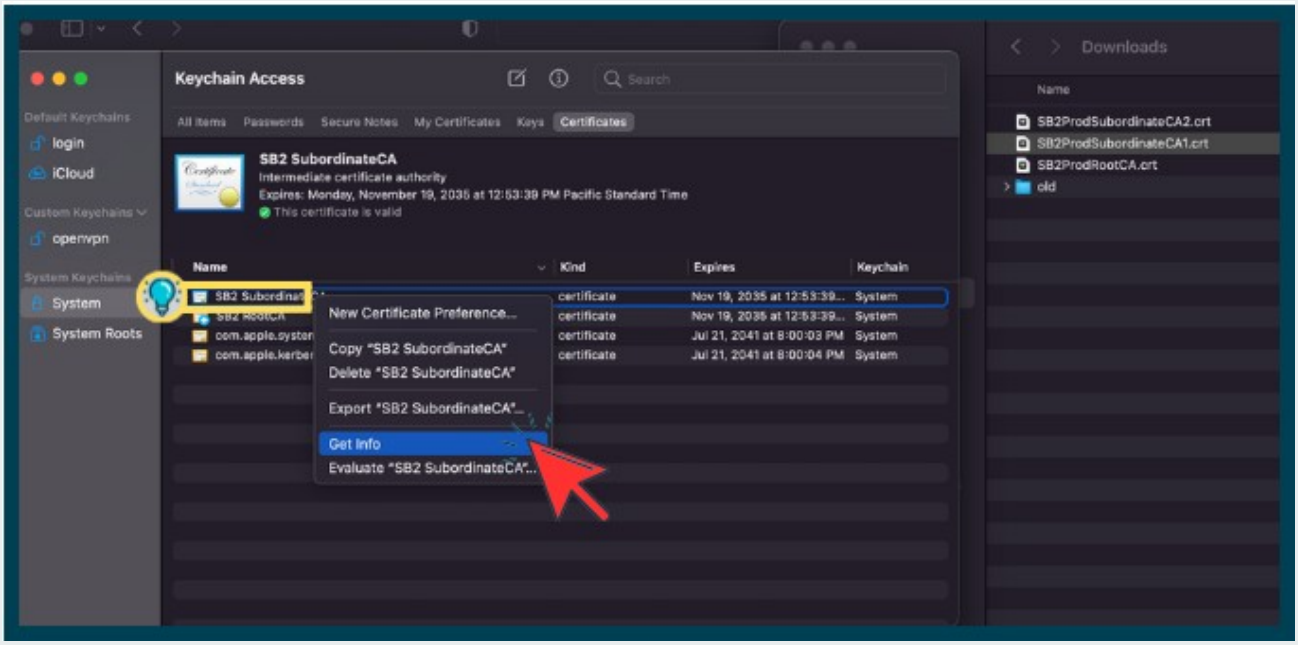
B16 IMPORTING CERTIFICATES

Next, drag the **SB2-SubordinateCA.crt file** into the **Keychain Access** window to begin the certificate import process. The macOS will prompt you to authenticate using Touch ID or an account password to complete the import.



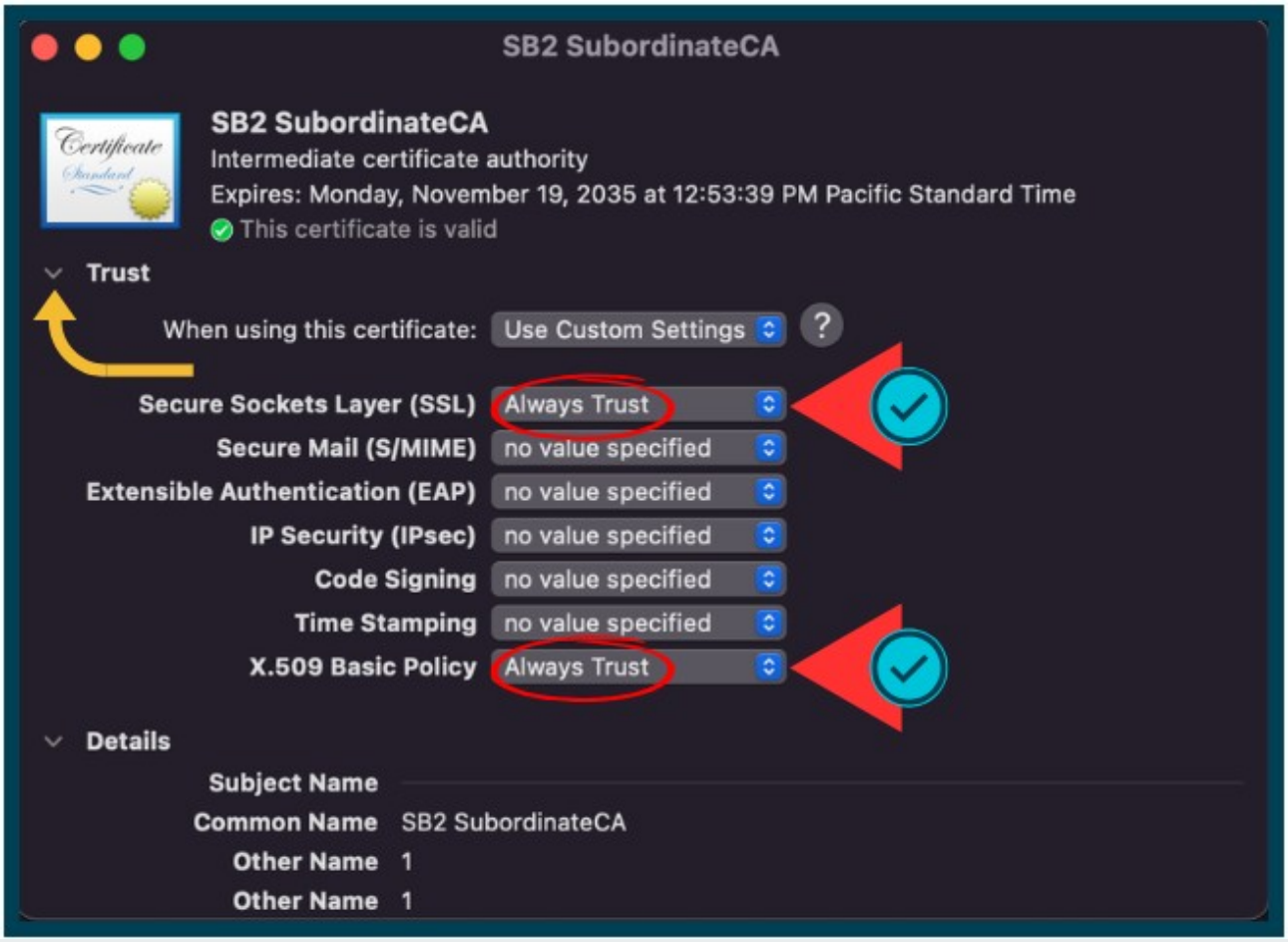
B17 ACCESS THE SB2 SUBORDINATE CA CERTIFICATE DETAILS

Right-click on the imported **SB2 SubordinateCA** certificate, then select **Get Info** to view its details.



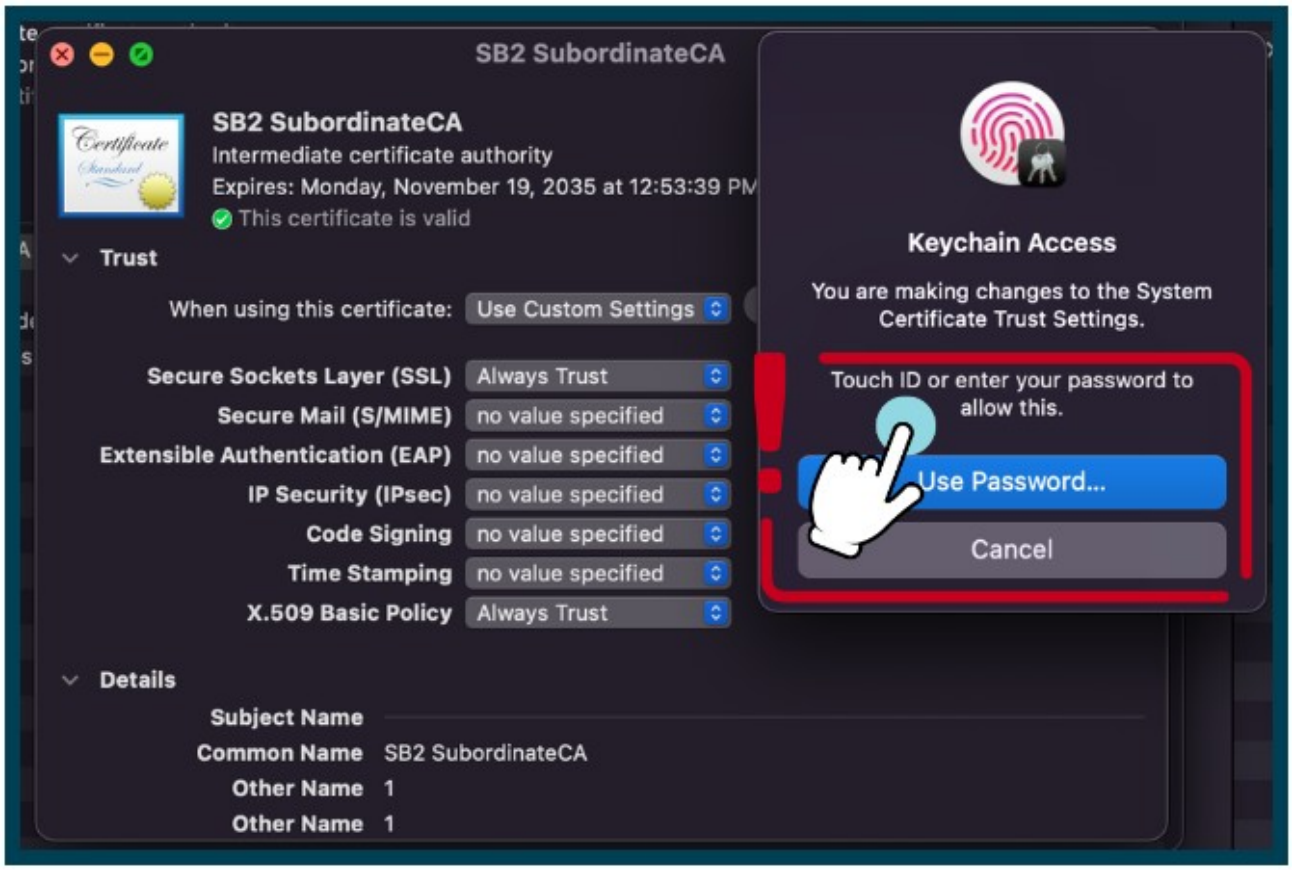
B18 TRUST THE SB2 SUBORDINATE CA CERTIFICATE

To view the **Trust details**, click the **down arrow** next to the **Trust option**. Then, select **Always Trust** for both **Secure Sockets Layer** (SSL) and **X.509 Basic Policy.**



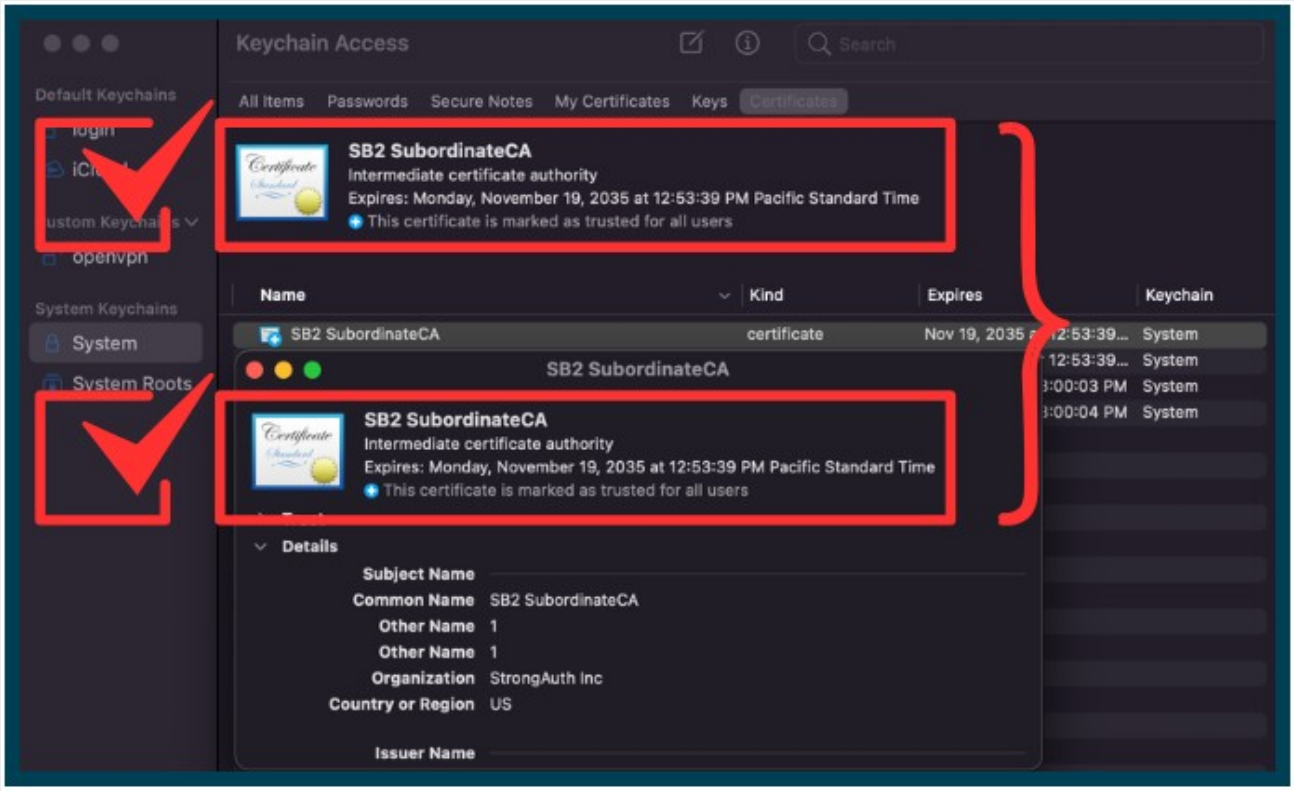
B19 AUTHENTICATING THE CHANGES TO THE SB2 SUBORDINATE CA

After the SB2 SubordinateCA **Get Info** window is closed, macOS prompts for authentication, using either **Touch ID** or the **macOS account password**, to confirm changes to the trust settings..



B20 CONFIRMING THE TRUST CHANGES

To confirm the trust settings, **right-click** the SB2 SubordinateCA certificate and select **Get Info**. A successful import and trust is indicated by the message: ***"This certificate is marked as trusted for all users."***



C1 ACCESSING SB2PROD INVITATION LINK

This section will review the steps of accessing the invitation link you received to register a FIDO credential with your Yubikey 5C NFC Security Key with the SB2PROD site.

You must have the Yubikey 5C NFC Security Key – with Security Key PIN and the SB2PROD Invitation URL that was sent to you for the FIDO registration process.

C2 PLUG IN THE YUBIKEY 5C NFC SECURITY KEY

Plug the **Security Key** into the USB-C port (or the USB-C to USB-A adapter).

C3 IDENTIFYING THE USB-C PORT

Locate the USB-C port—typically found along the edge of the computer, it features a compact design with smooth, rounded corners that set it apart from traditional USB-A ports.
The image below shows both a USB-C port and its matching male connector.

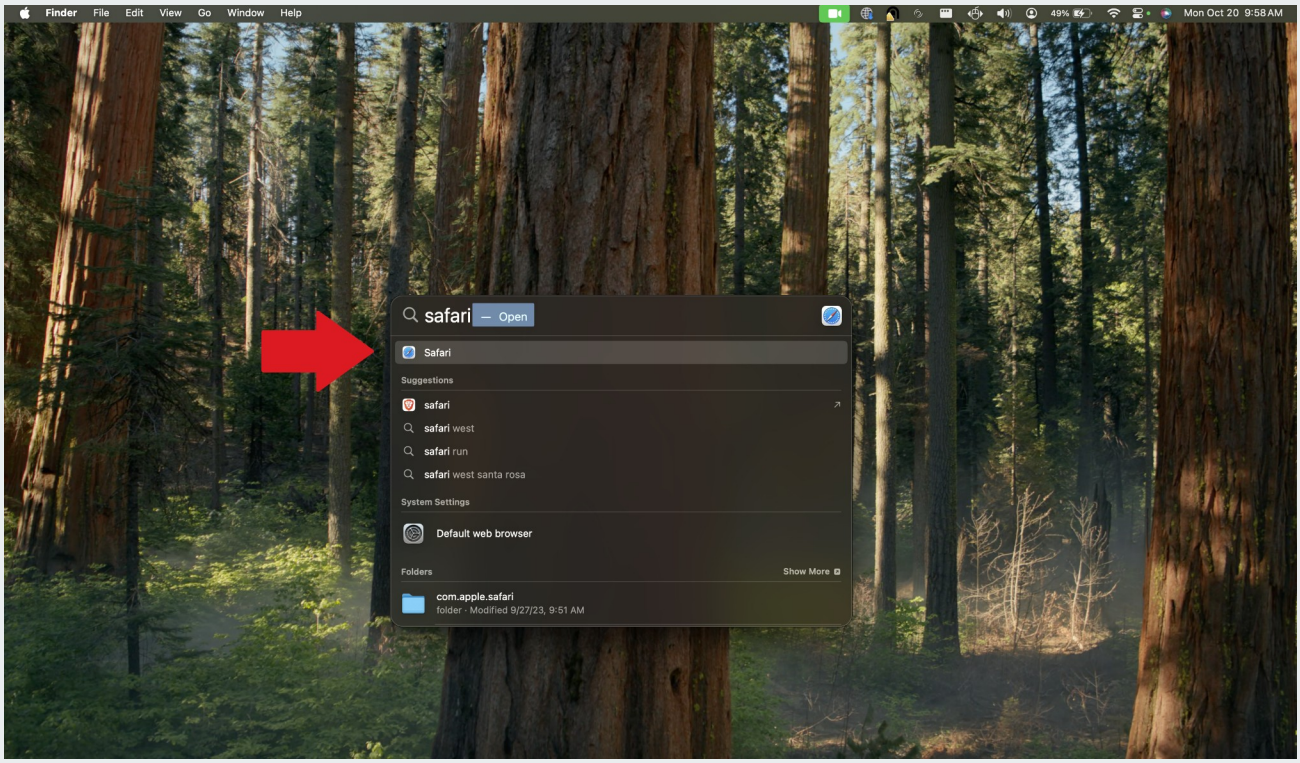
C4 NO USB-C PORT? NO PROBLEM.

With the USB-A to USB-C adapter provided by the Administrator of your SB2 site, simply plug the USB-A end into the computer and insert the Security Key into the USB-C port.

The provided USB adapter pictured below.

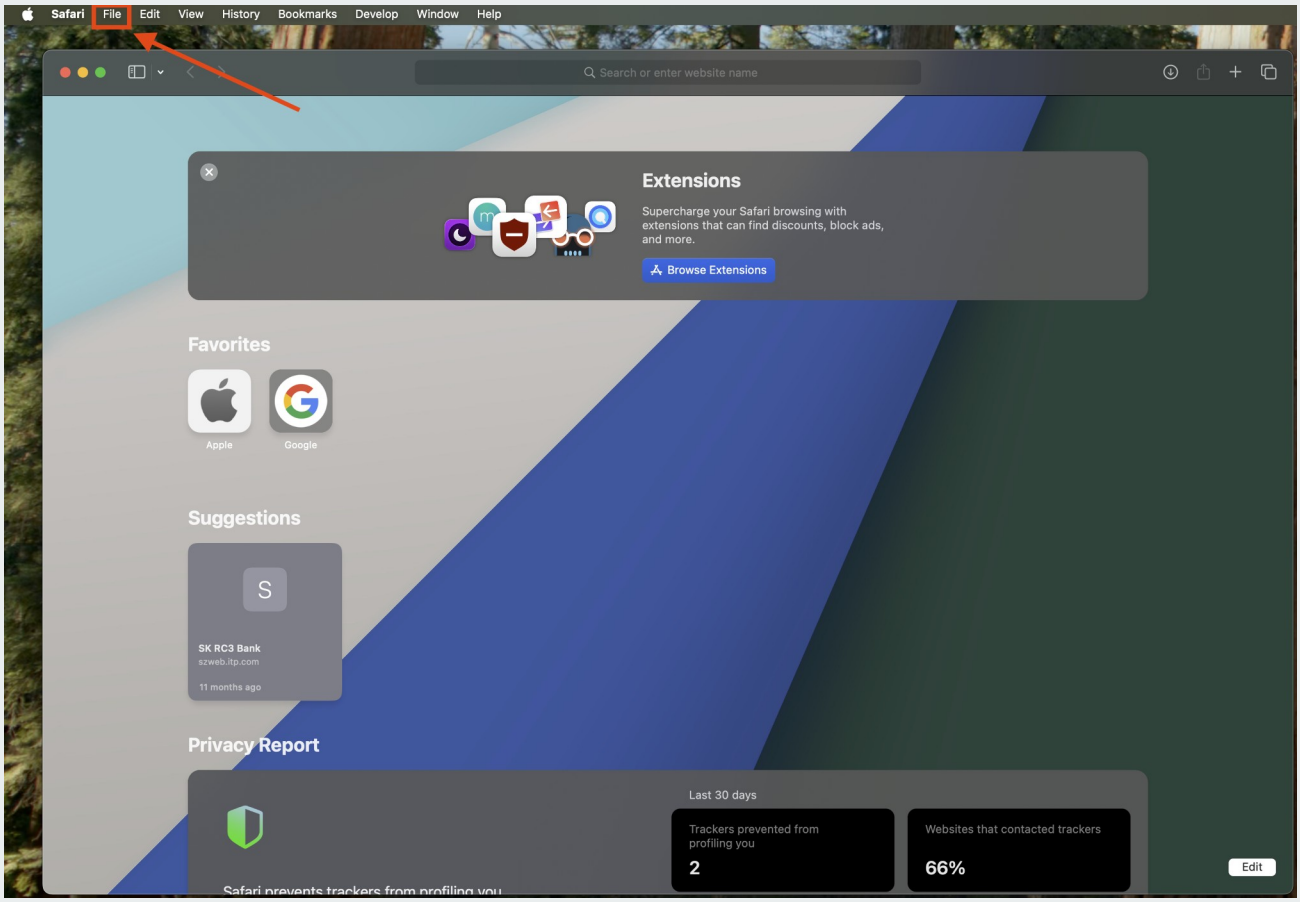
C5 OPEN THE SAFARI BROWSER

To begin, access the Safari browser by searching with **Spotlight** [⌘ + Space].



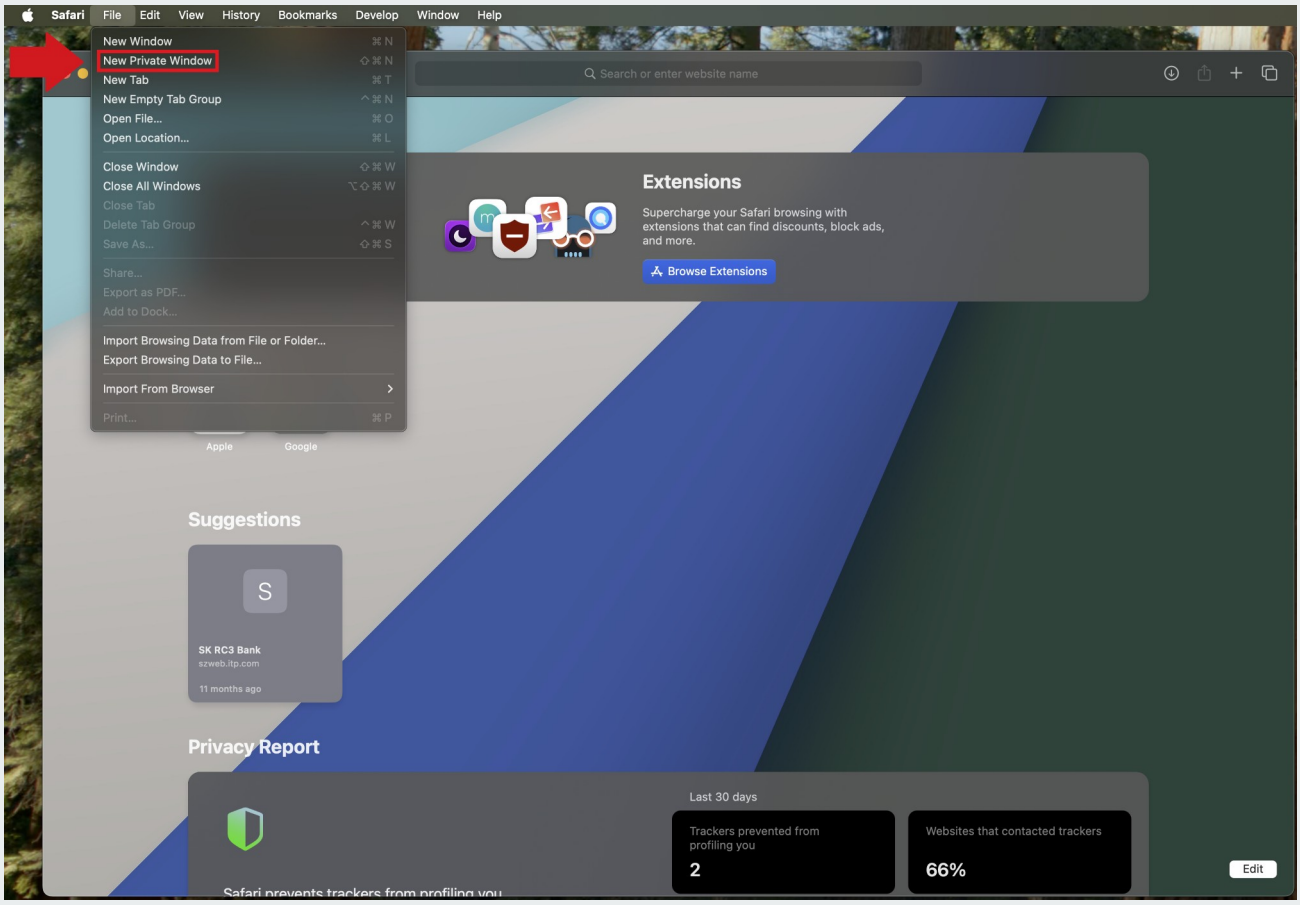
C6 LOCATE THE FILE MENU

In the top-left corner of the menu bar, click the File menu to proceed.



C7 OPEN A NEW PRIVATE WINDOW

Always use Private mode in the Sarari browser to access the SB2PROD platform URL (https://sb2.strongkey.com).



SB2PROD PLATFORM URL

In the InPrivate browser address bar, enter the provided SB2PROD Platform invitation link. You will receive the link in an email from a member of the StrongKey Team.

The SB2 registration invite URL is long so it will be advantageous to use the “cut and paste” options. Here is an example of what the URL will look like:

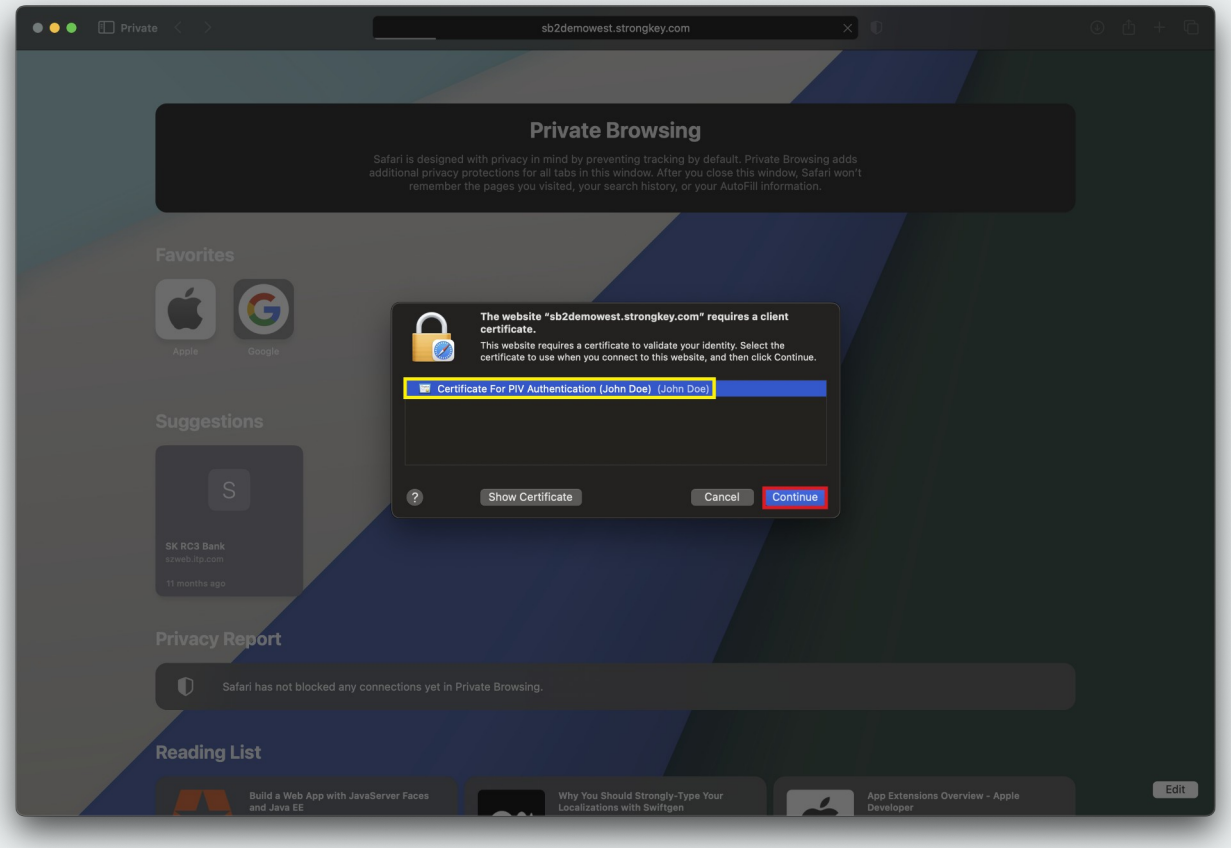
https://sb2.strongkey.com/sb2/register?hash=3d500dec79f6ec257ebddcc56hj78ff1f2d31d557d4c7bf5654

C9 SELECT THE CERTIFICATE

A pop-up window will display the available certificates (yellow box). The name in the prompt should match your name, as created by the Administrator of the SB2 PROD site. Select the presented certificate and **click OK** to proceed.

NOTE

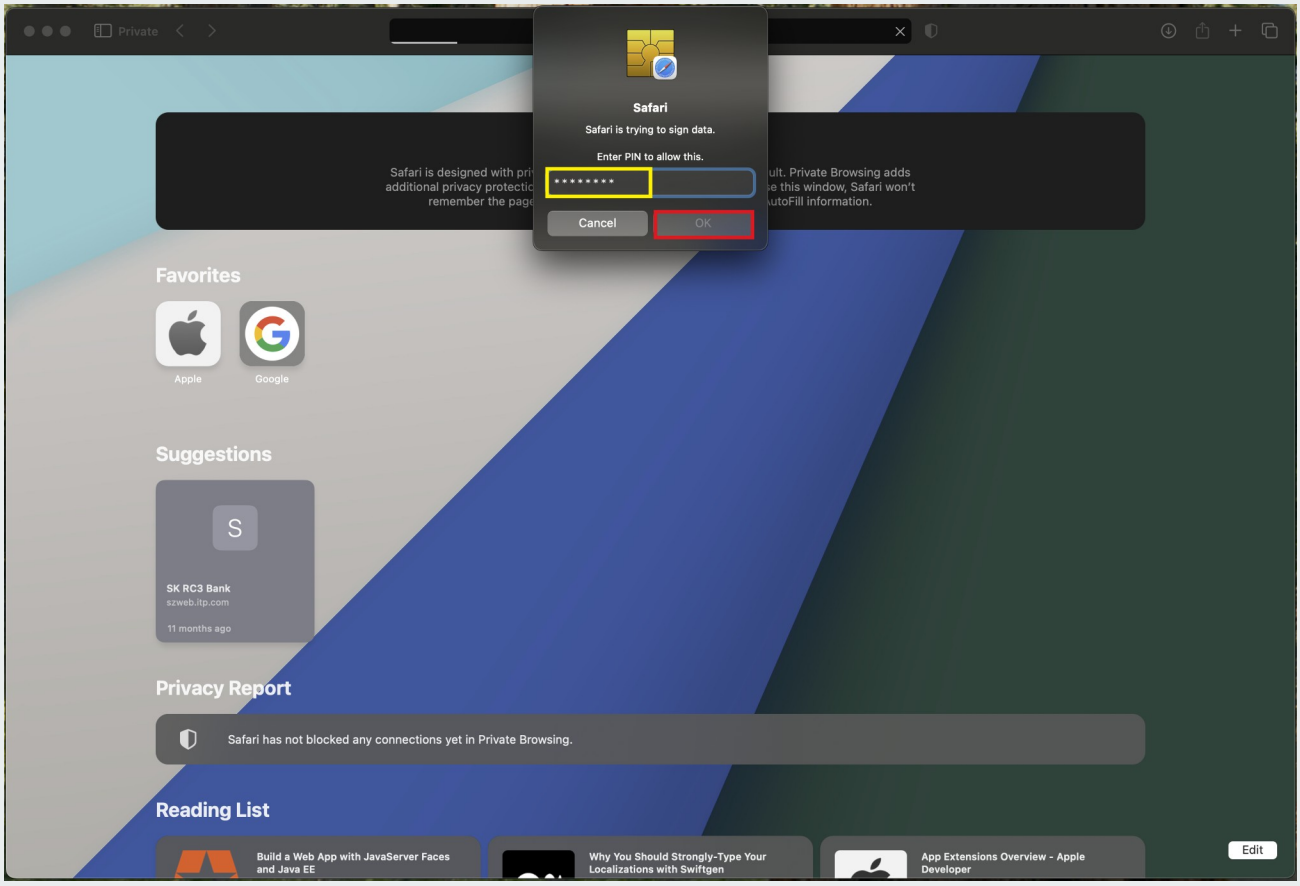
You will only see a certificate prompt if the **SB2 Root CA** and **SB2 Subordinate CA** certificates were imported correctly on your computer. If you do **NOT** see a certificate prompt, please contact ssupport@strongkey.com for support.



C10 ENTER SECURITY KEY PIN

The next dialog box will prompt for the Yubikey 5C NFC (aka Smartcard) **PIN**. Enter and **click OK** to continue. This PIN should have been provided by the Administrator of the SB2 platform site.

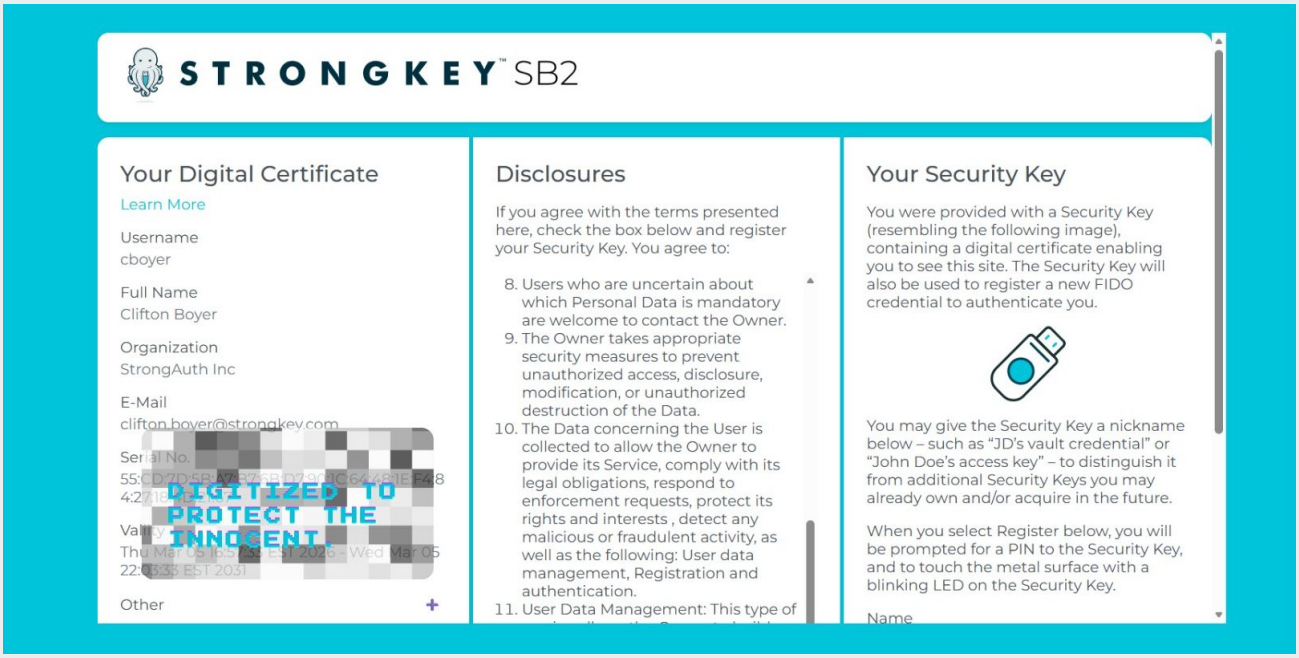
For instructions on changing the Yubikey PIN, refer to the Appendix of this guide.



C11 SB2 PLATFORM LANDING PAGE

Upon successful authentication with the digital certificate, the following one time **SB2 Landing Page** will be displayed. This page has three (3) sections:

- On the left-hand side, some details of your digital certificate information will be displayed (Cypher's critical details have been redacted to protect his privacy.).
- Legal disclosures for the SB2 platform are located in the middle section. You must scroll all the way to the bottom and agree to the terms disclosed before you may continue with this process.
- Use the right-hand panel to nickname your Security Key. This makes it easier to identify each key if you use more than one.



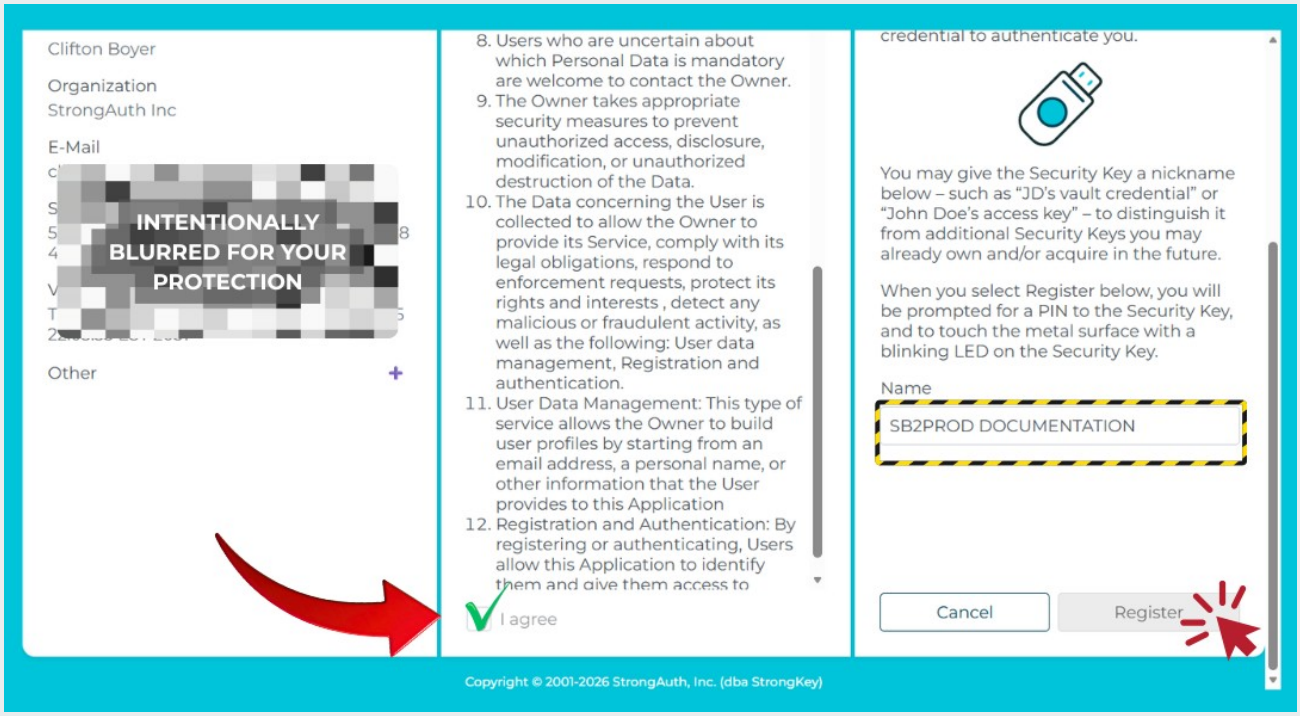
C12 TERMS & CONDITIONS

Review and accept the terms and conditions in the **Disclosures** panel. The **"I agree"** box must be checked before proceeding with Security Key registration see D13 image).

C13 GIVE SECURITY KEY NICKNAME

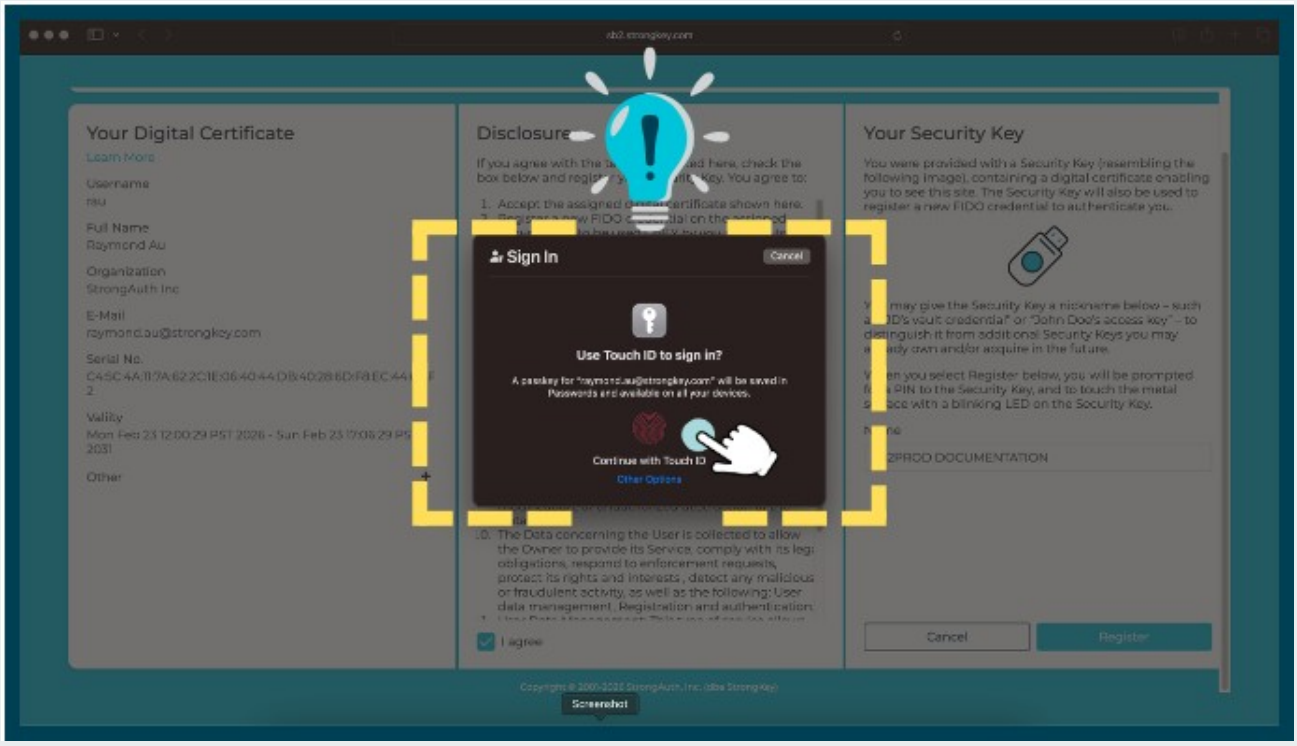
In the Security Key panel on the right, enter a descriptive nickname for the key in the "Name" field. Then select Register to complete the process. Names are typically short (up to 16-20 alpha-numeric characters), such as:

- John's Yubikey 5C Security Key for sb2.strongkey.com
- Yubikey for sb2.strongkey.com



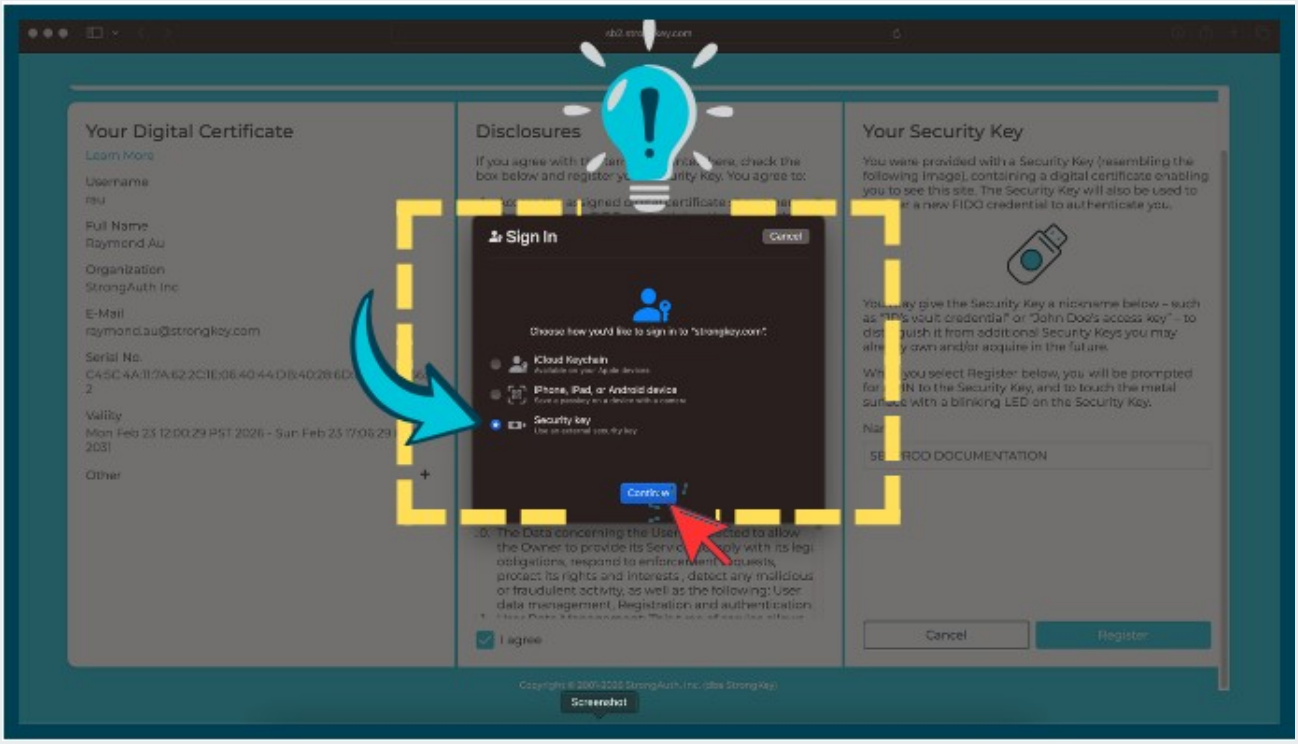
C14 CONTINUE SETUP

A dialog box will appear to confirm continuation of the setup process, authorizing the current device to also access the SB2PROD website. **Touch your Security Key** to proceed.



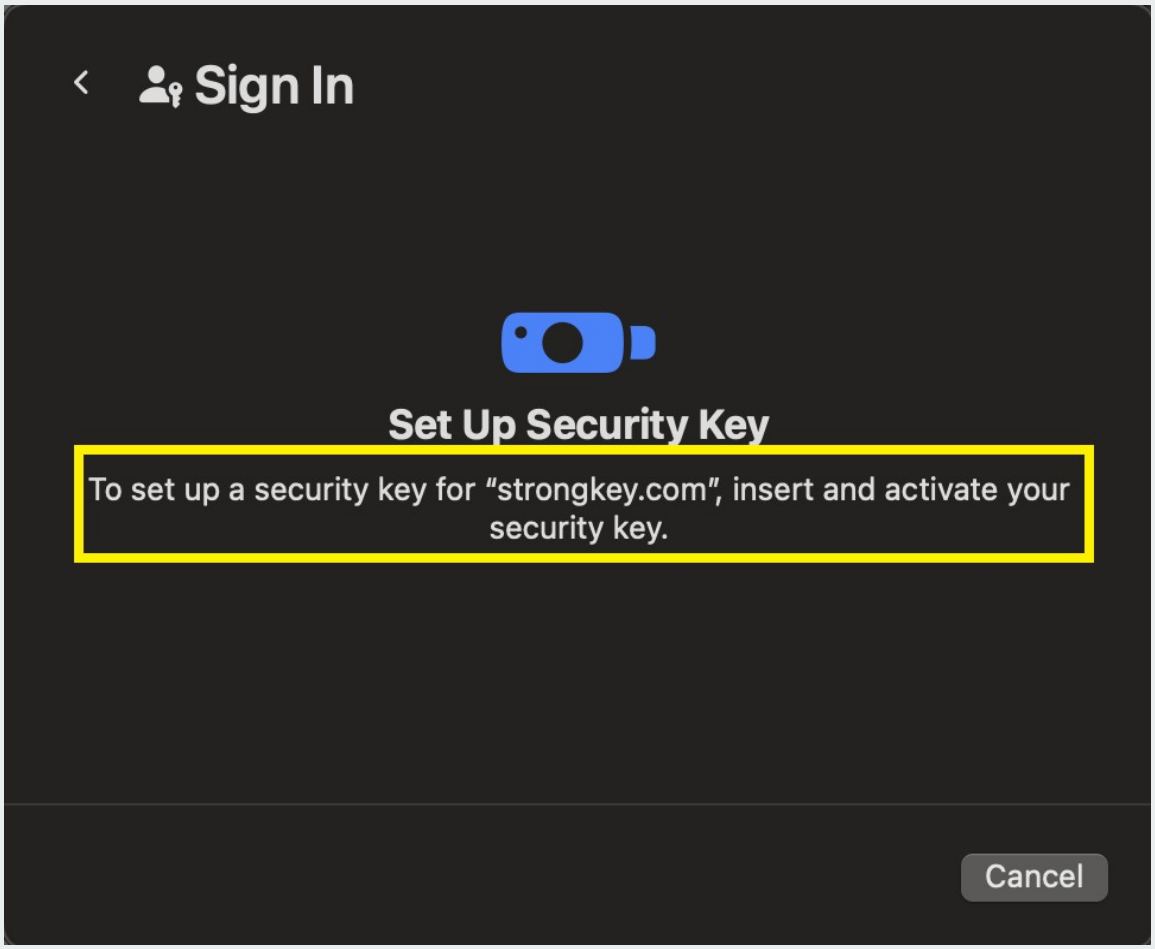
C15 SELECT SECURITY KEY

Next, select the **Security Key** for location of where the credential is stored. It is important to verify this location as the Security Key. **Click Continue** to proceed.



C16 SECURITY KEY SETUP

Confirm the SB2PROD login by touching the blinking LED on your security key's metal contact.

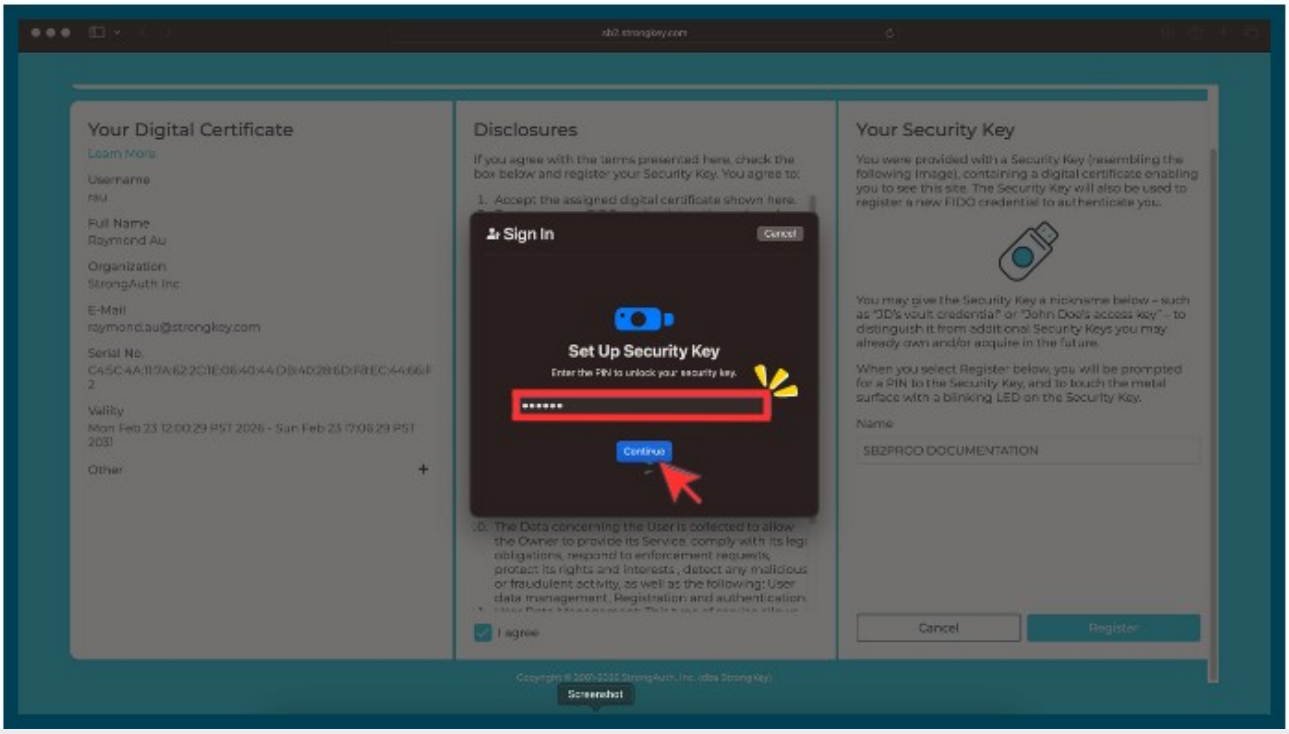


C17 ENTER SECURITY KEY PIN

To continue adding a credential to the **Security Key**, enter the PIN and **click Continue**.

NOTE

This step is called **User Verification** (UV) in the FIDO ecosystem. It confirms that the SB2PROD platform is interacting with the legitimate Security Key owner by verifying your PIN, which should never be shared. Each time you use your FIDO credential to sign in, you'll complete this UV step as a required security measure.

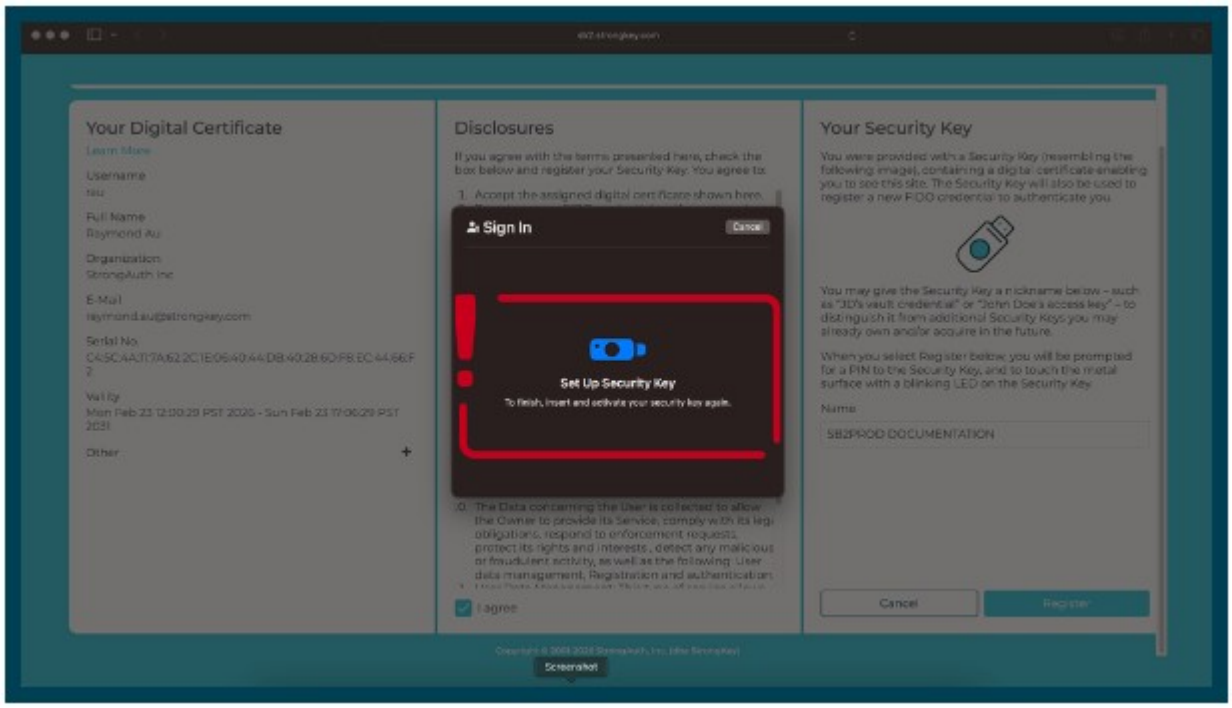


C18 TOUCH THE SECURITY KEY

To continue the setup, touch the metal contact visible on the **Security Key** with your finger - it will have a light-emitting diode (aka LED) blinking to indicate where it must be touched.

NOTE

This step is called the “Test of User Presence” (TUP) in the FIDO ecosystem. It ensures that no remote attacker can impersonate you, because they would need both your Security Key and your physical interaction at your computer. Each time you use your FIDO credential to sign in to the SB2 platform, you’ll complete this brief TUP check as a security safeguard.

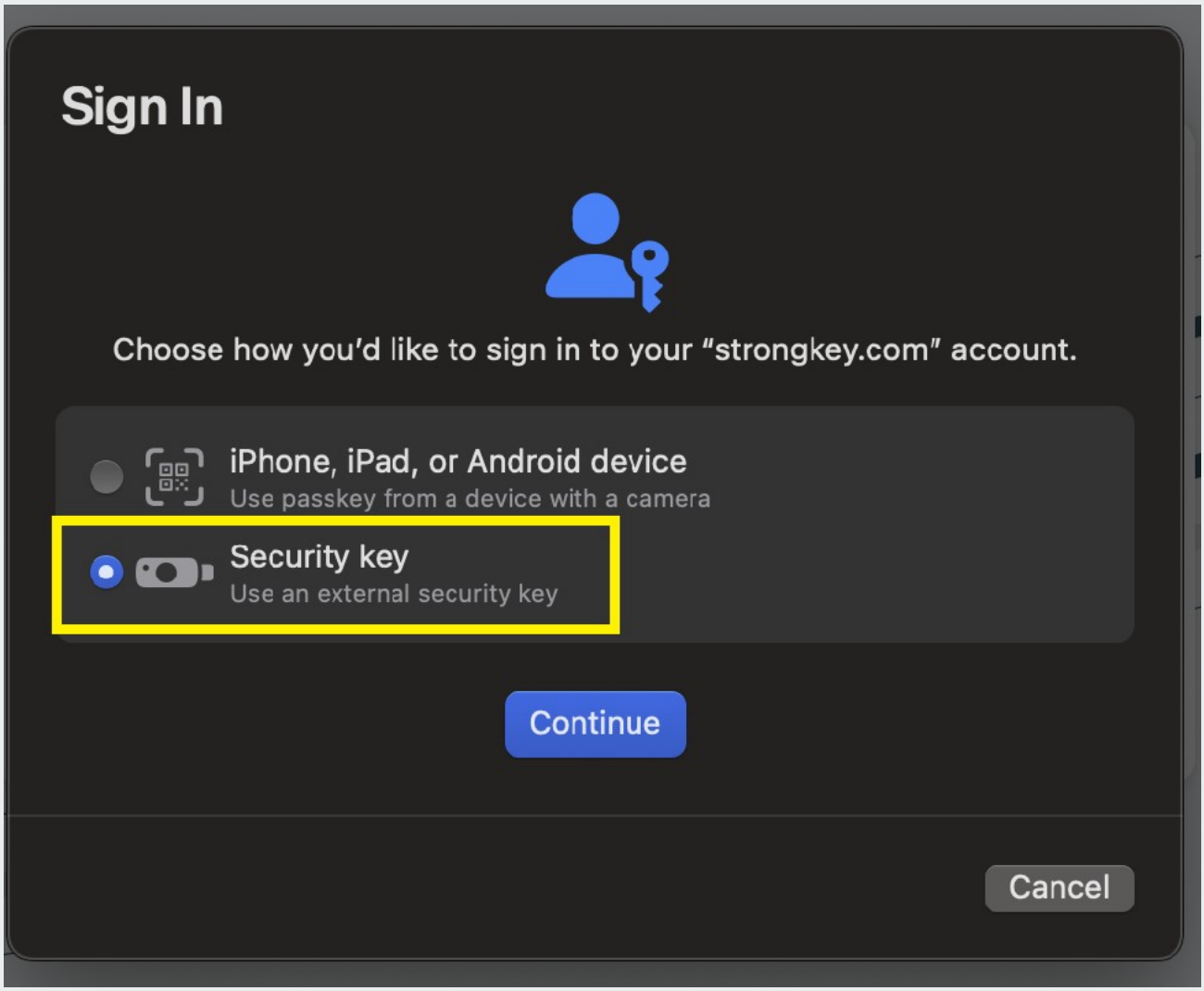


C19 SB2PROD CONFIRMATION

After touching the security key, SB2PROD will flash a blue message confirming successful registration.

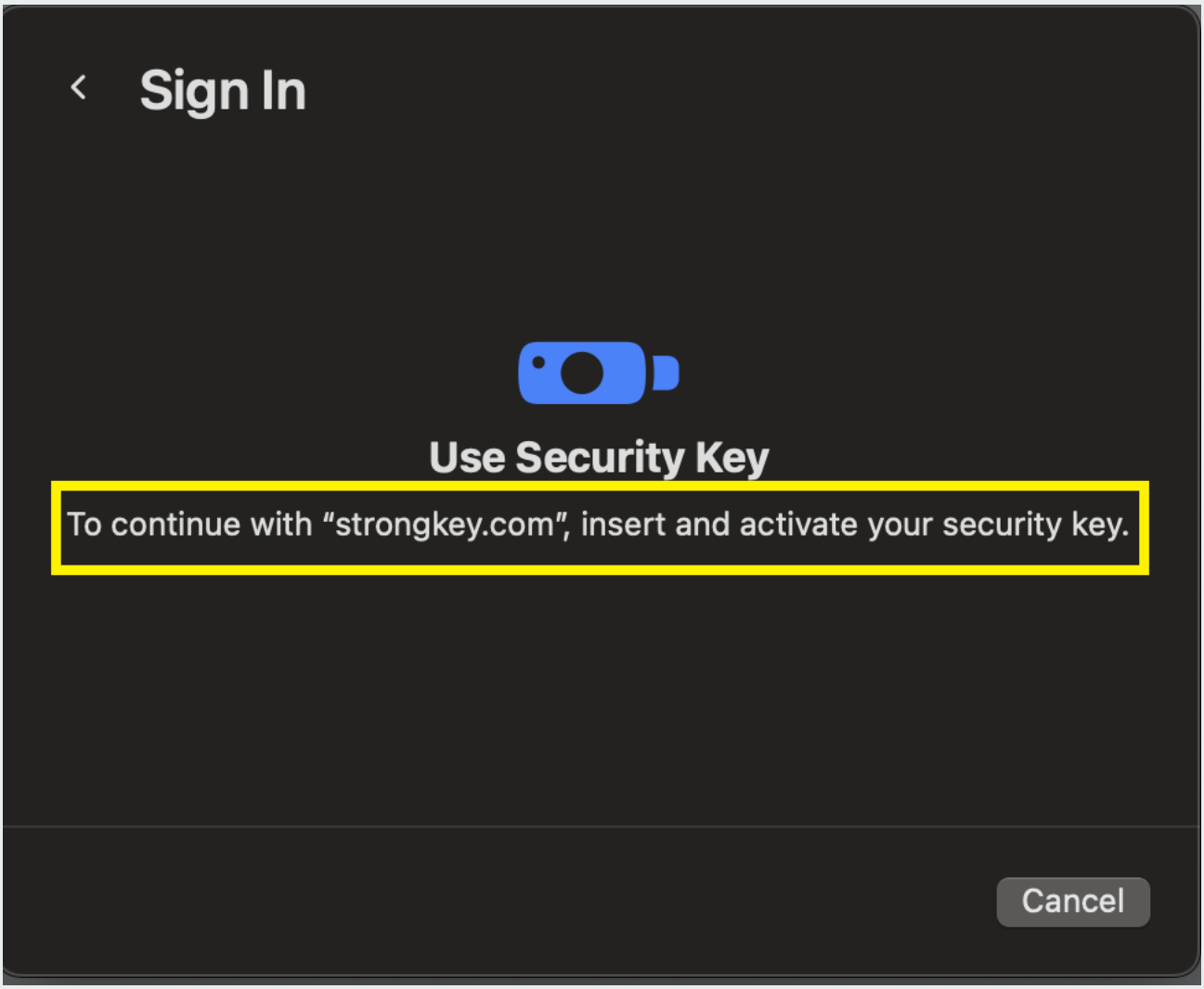
C20 SELECT SECURITY KEY

After clicking **Continue**, a prompt will appear prompting you to sign in with the new credential. Make sure you choose the **Security Key** when authenticating to the SB2PROD platform, and **click Continue.**



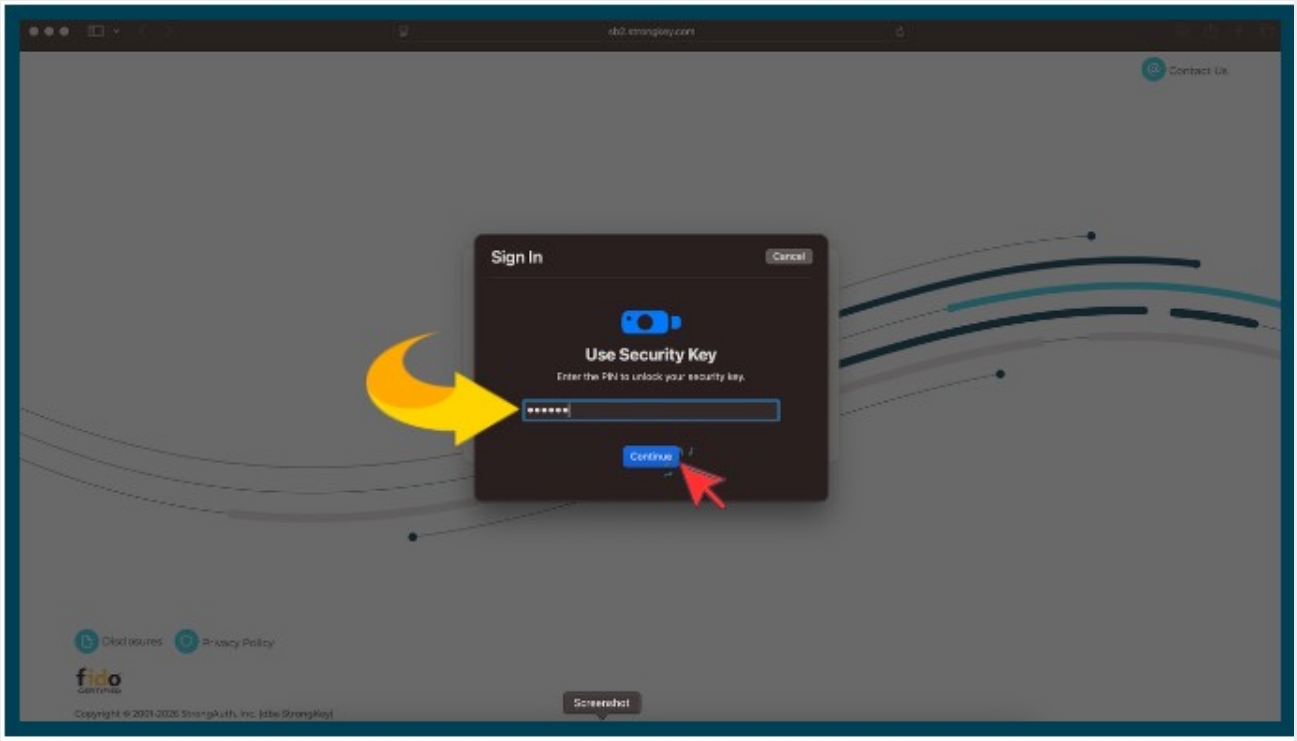
SIGN IN

The next dialog box will ask you to activate your Security Key. Please insert now.



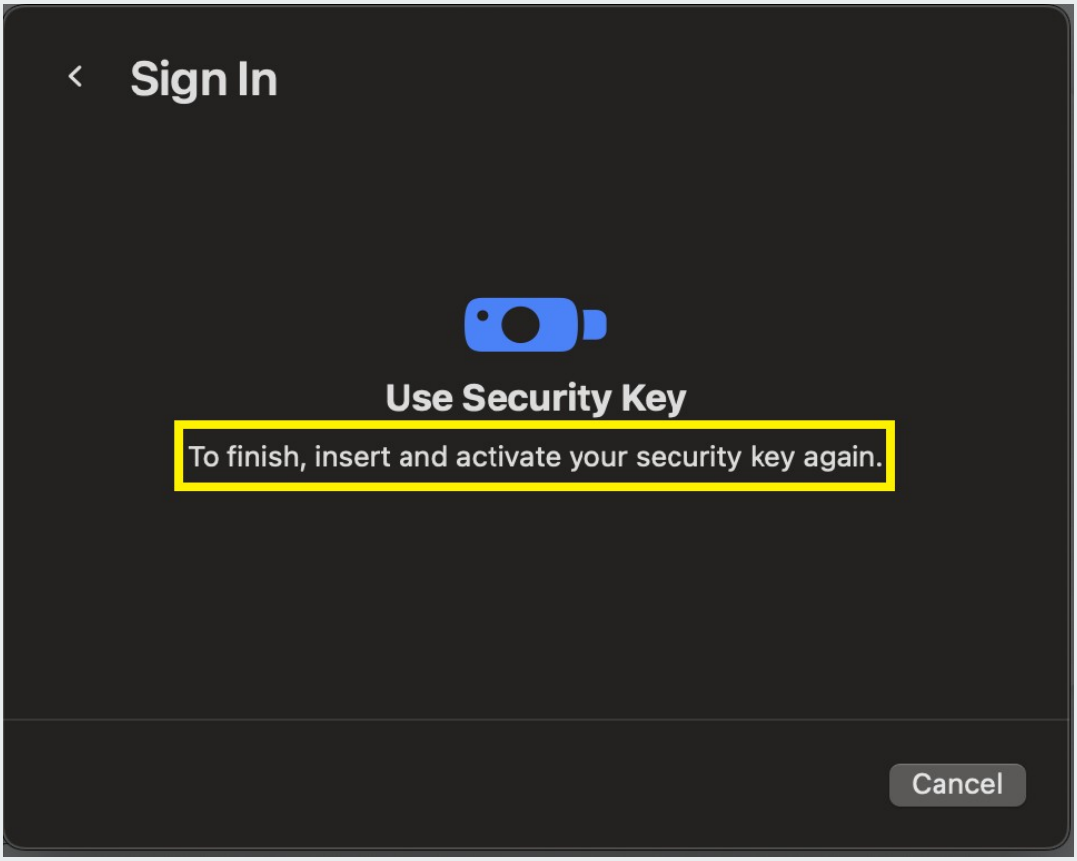
C22 USER AUTHENTICATION

The next dialog box will verify the user. Enter the **PIN** to the **Security Key** and **click Continue**.



TEST OF USER PRESENCE (TUP)

To continue the login procedure, touch the metal contact on top of the **Security Key** – this confirms a user is present and attempting to sign in from that computer with a legitimate credential on the Security Key.



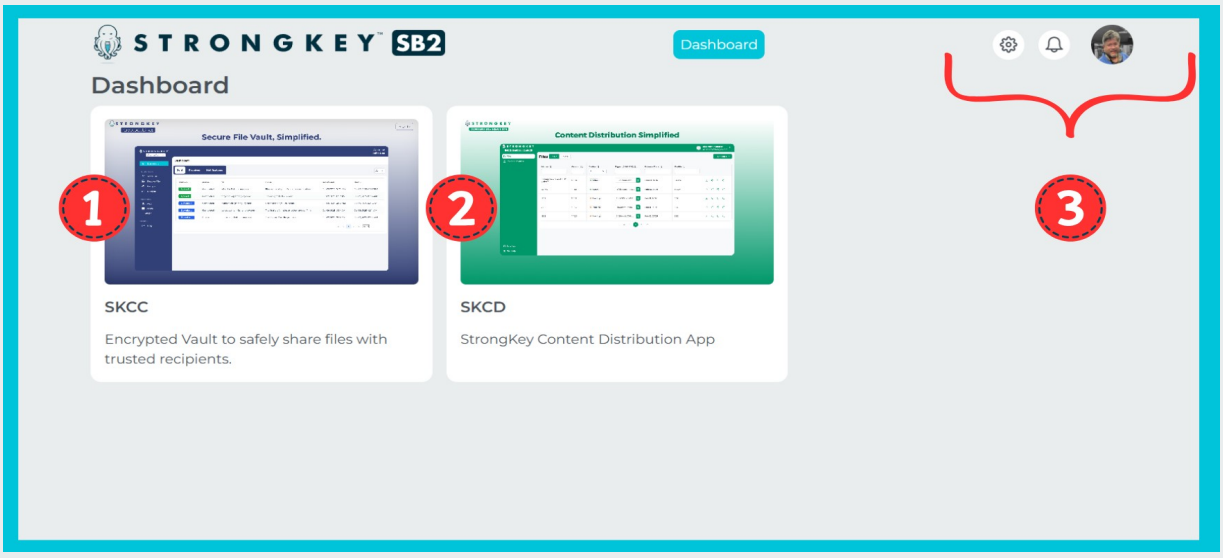
SB2 PLATFORM DASHBOARD

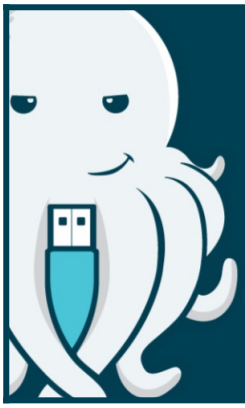
CONGRATULATIONS! Your access to the **SB2PROD Platform** has been successfully established, and your Security Key with your new FIDO credential is registered. Your account name is displayed on the right side of the screen. You may click the gear icon to edit your profile.

All SB2 users have access to two primary applications:

- **StrongKey CryptoCabinet (SKCC)**: For securely storing and sharing encrypted files containing sensitive data.
- **StrongKey Content Distribution (SKCD)**: For storing and sharing digitally signed, unencrypted documents.

Clicking either image on the SB2 Dashboard opens the application in a new browser tab. Detailed user guides for both SKCC and SKCD are available separately.





APPENDIX

NOTE: This document is for StrongKey customers, employees, suppliers and partners who will interact with the StrongKey Production SB2 cluster ("SB2PROD") for business operations.

COPYRIGHT & NOTICES

YUBICO YUBIKEY 5C NFC SECURITY KEY: CHANGING THE PERSONAL IDENTIFICATION NUMBER (PIN)

This appendix guides you through changing your PINs on the Yubico Yubikey 5C NFC Security Key.

AP1 CHANGING A YUBIKEY 5C NFC PIN

The **Security Key** is a very powerful cybersecurity device and represents the state-of-the-art in multi-factor authentication (MFA) technology that does not use any passwords. The MFA is supported by the:

- **Possession factor** – where the physical possession of the Security Key is essential to the authentication process;
- **Knowledge factor** – where know the PIN to the Security Key is also essential to the authentication process.

Since the **Security Keys** provided with the SB2 use two different NIST-approved, passwordless authentication protocols, there are two containers for the cryptographic keys used with the protocols. Each container is managed by a separate PIN.

However, StrongKey recommends using the SAME PIN to both containers of the **Security Key** to reduce the burden on users. As long as the **Security Key** is safely in the possession of the legitimate user, and the legitimate user is NOT sharing the PIN to the **Security Key** with anyone, the user will be complying with one of the strictest security policies recommended for access control.

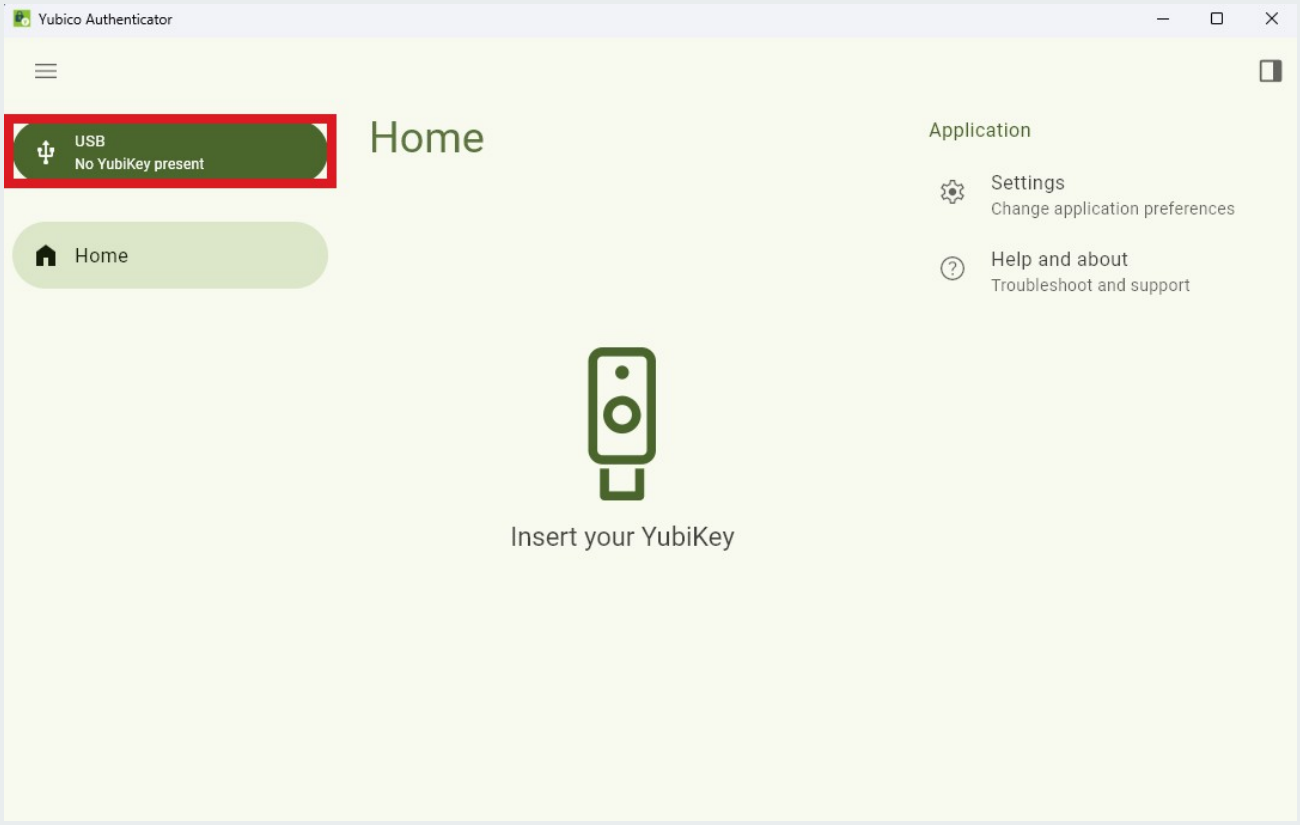
This document outlines the process for changing the two required PINs – one for the PIV certificate and the other for the FIDO credential.

AP2 OPEN THE YUBICO AUTHENTICATOR APPLICATION

To begin, open the **Yubico Authenticator** application by searching for it with **Spotlight** (⌘ + Space) or locating it in **Finder's** Applications folder.

AP3 THE YUBICO AUTHENTICATOR APPLICATION

Upon opening, the application displays the screen shown below and indicates **“No Yubikey Present.”**



AP4 INSERT THE YUBIKEY 5C NFC

Plug the **Security Key** into the USB-C port.

AP5 IDENTIFYING THE USB-C PORT

Locate the USB-C port—typically found along the edge of the computer, it features a compact design with smooth, rounded corners that set it apart from traditional USB-A ports. The image below shows both a USB-C port and its matching male connector.

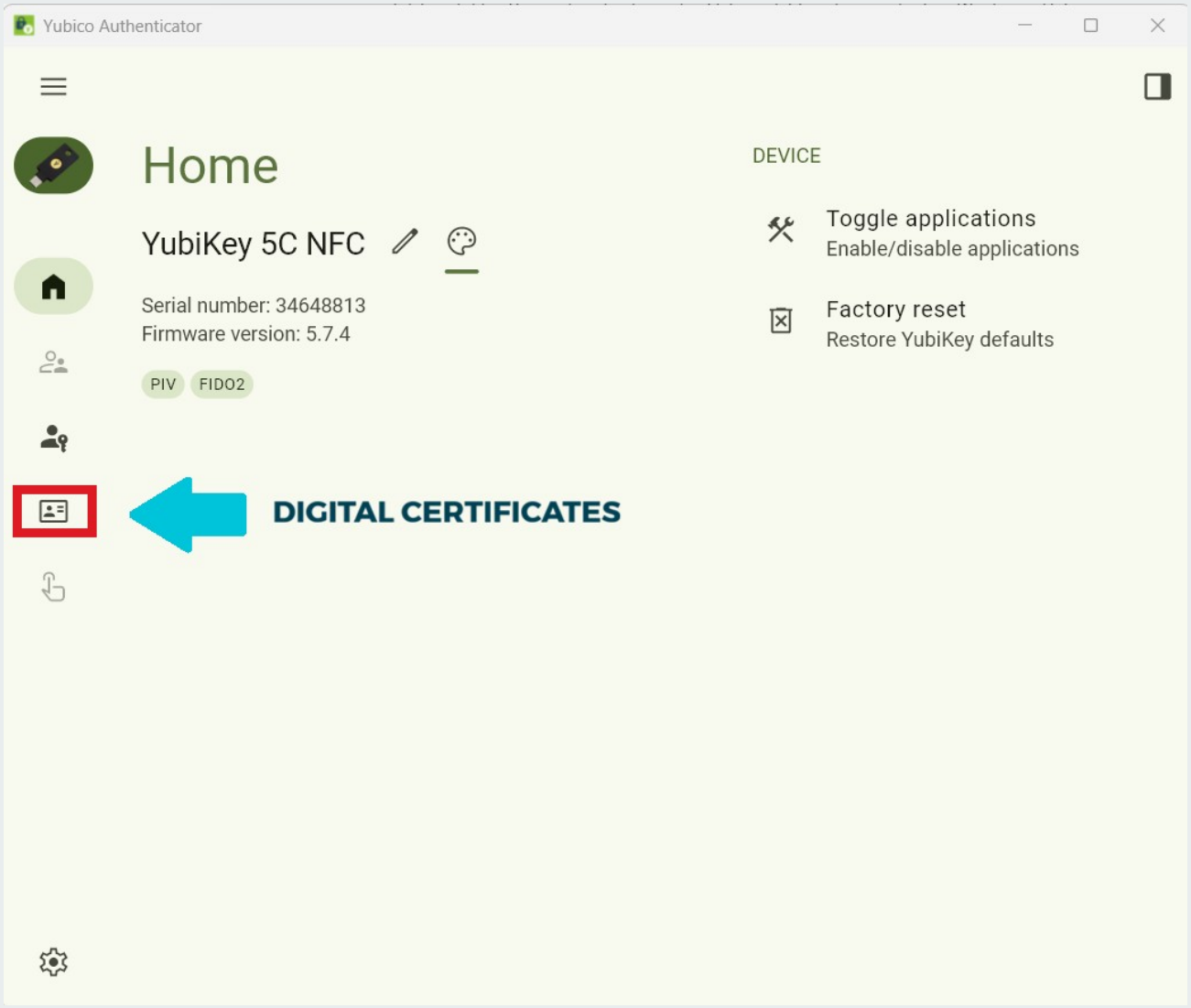
AP6 NO USB-C PORT? NO PROBLEM.

With the provided **USB-A to USB-C adapter**, simply plug the USB-A end into the computer and insert the **Security Key** into the USB-C port.

The provided USB adapter pictured below.

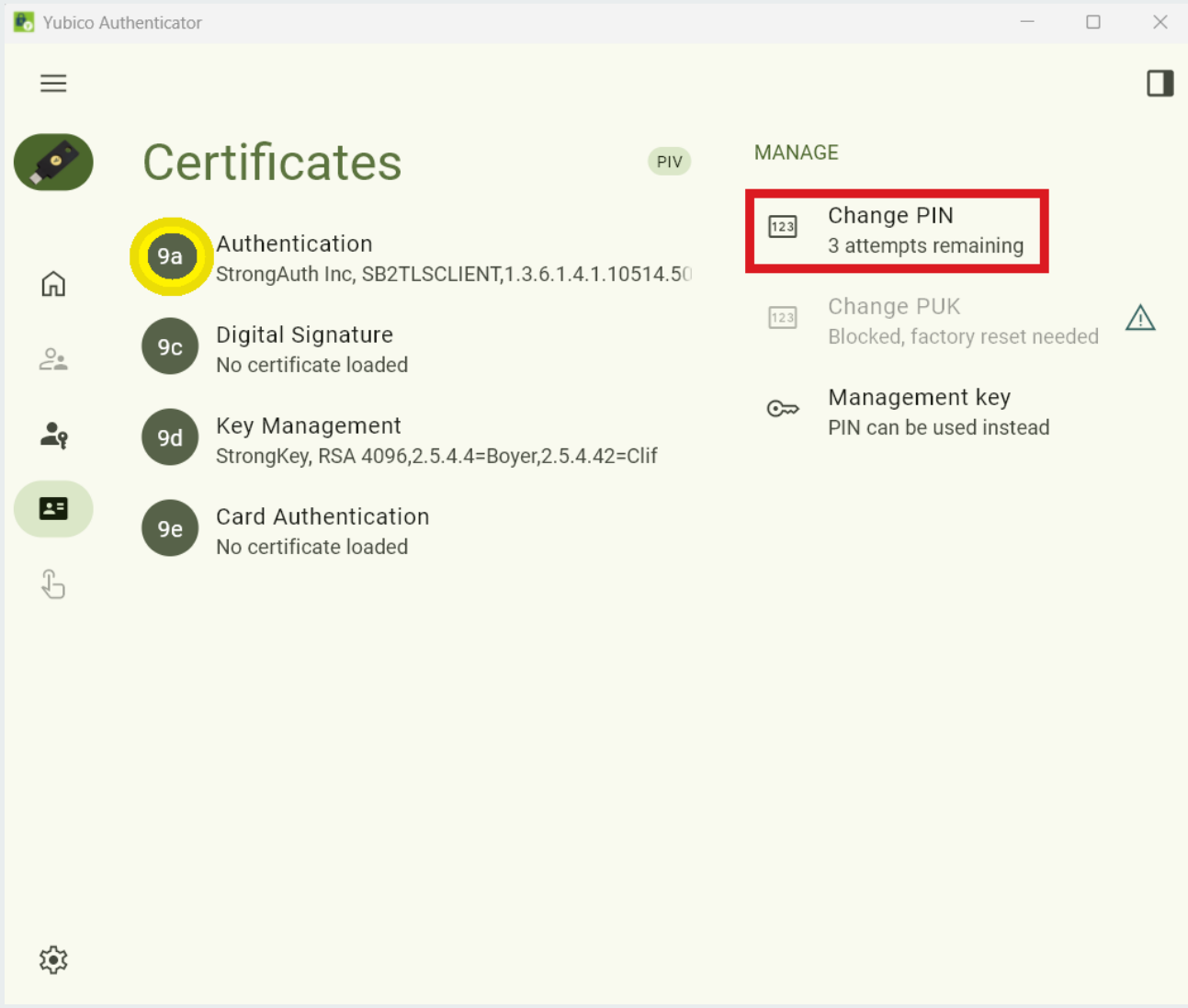
AP7 CHANGING THE DIGITAL CERTIFICATE PIN

From the home screen, navigate to the left and select the **Certificates** option from the menu.



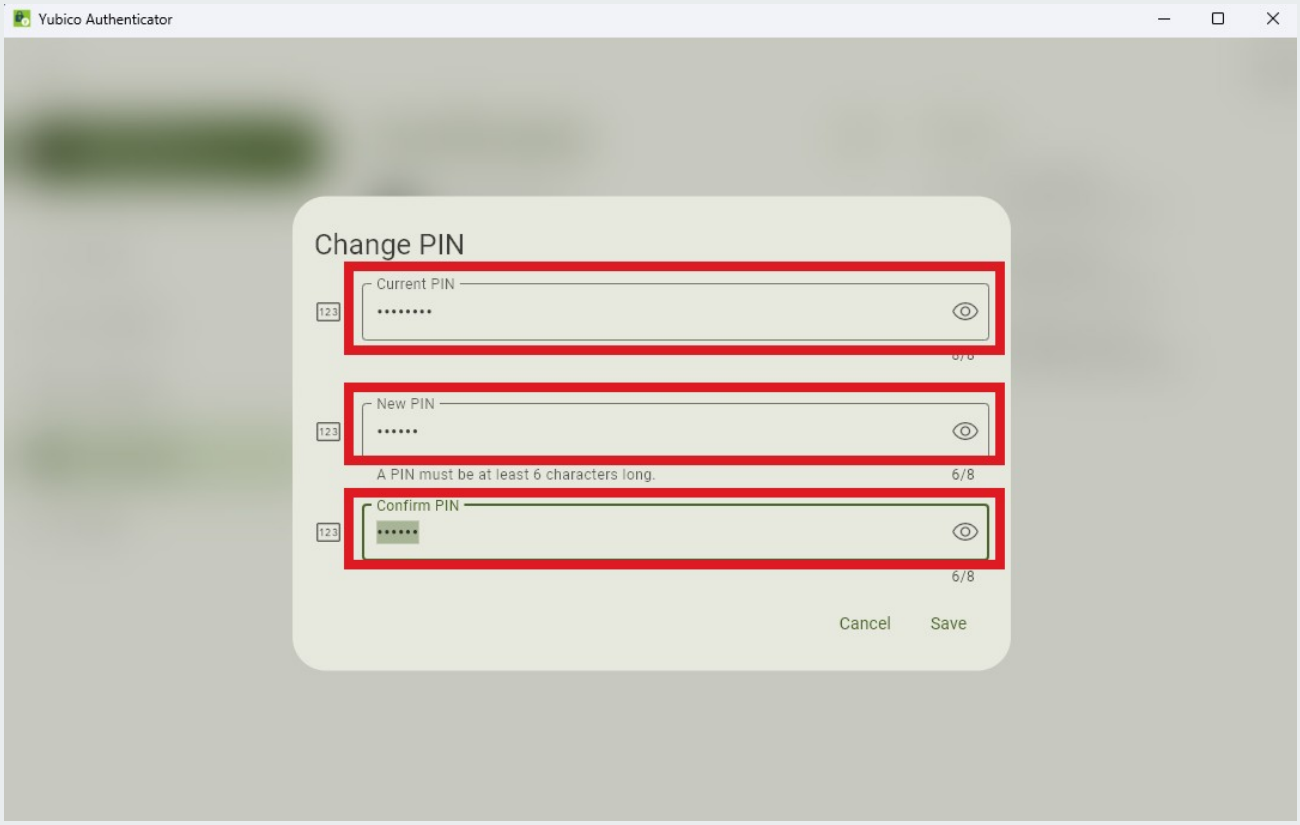
AP8 CHANGE PIN OPTION

Select the **Change PIN** option from the **Manage** menu on the right.



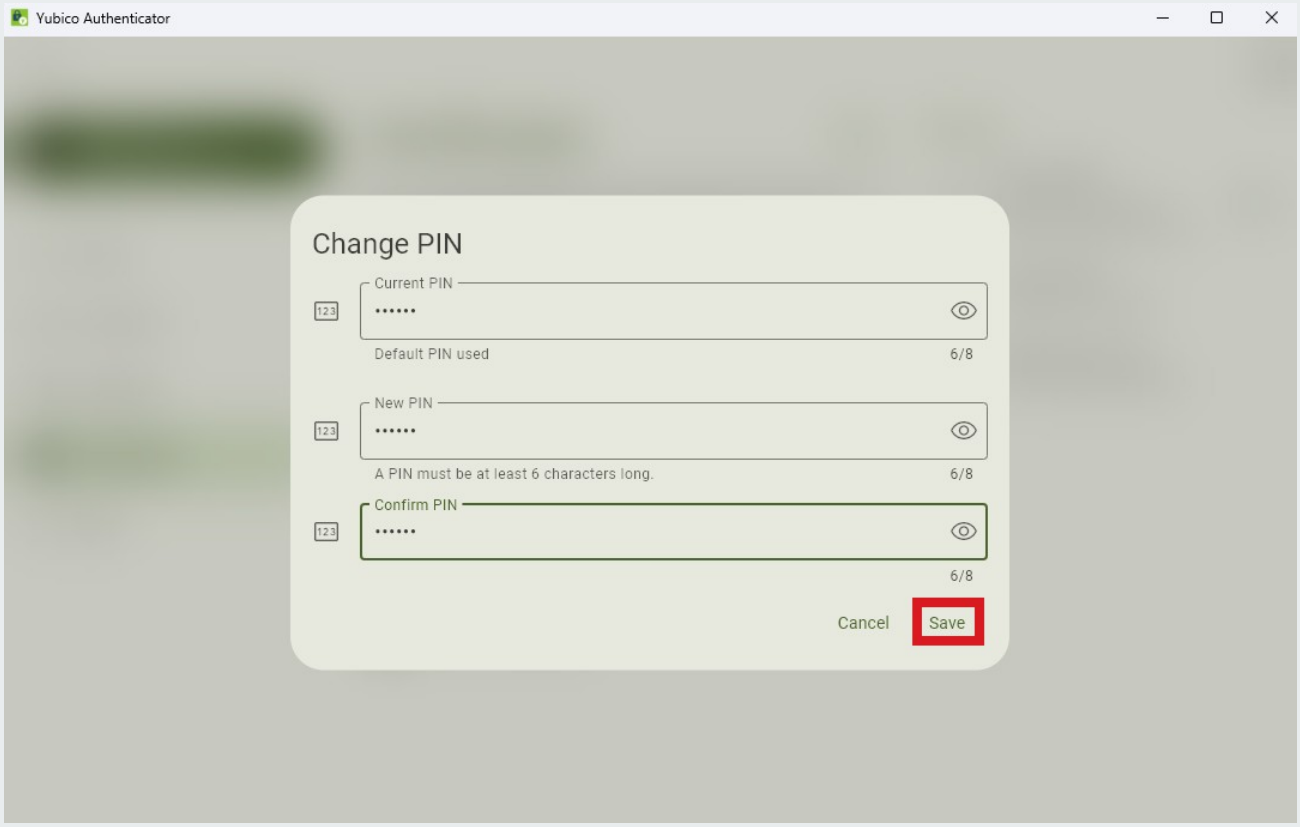
AP9 ENTER PIN INFORMATION

- In the top field, enter the **default PIN: 123456**.
- Enter the new PIN in the middle field. The PIN must contain 6 to 8 characters.
- Re-enter the new PIN in the final field to confirm.



AP10 SAVE NEW PIN

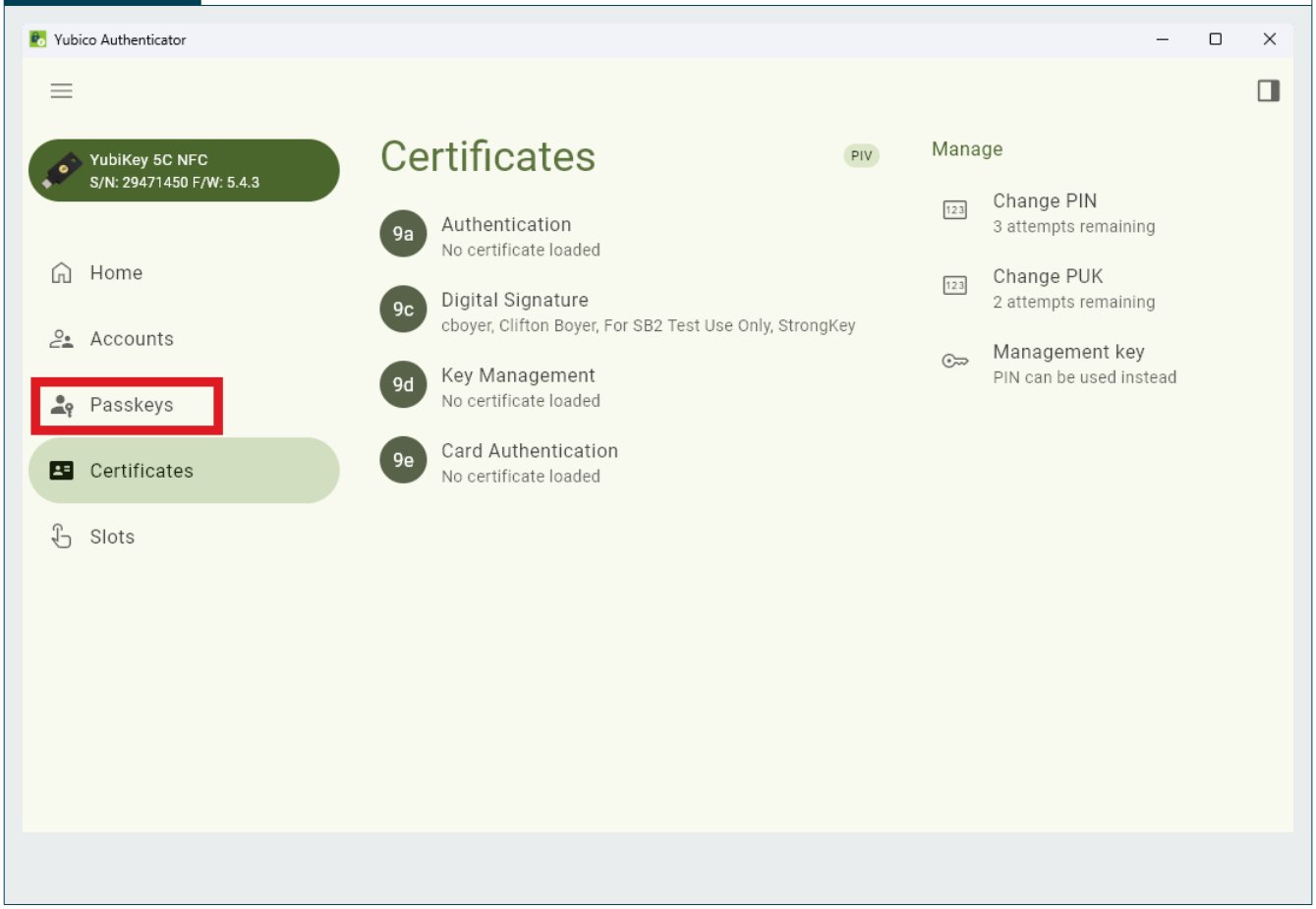
Click Save. The application returns to the previous screen. If the process is successful, a “PIN changed” notification briefly appears at the bottom of the screen.



AP11 CHANGING THE FIDO CREDENTIALS PIN

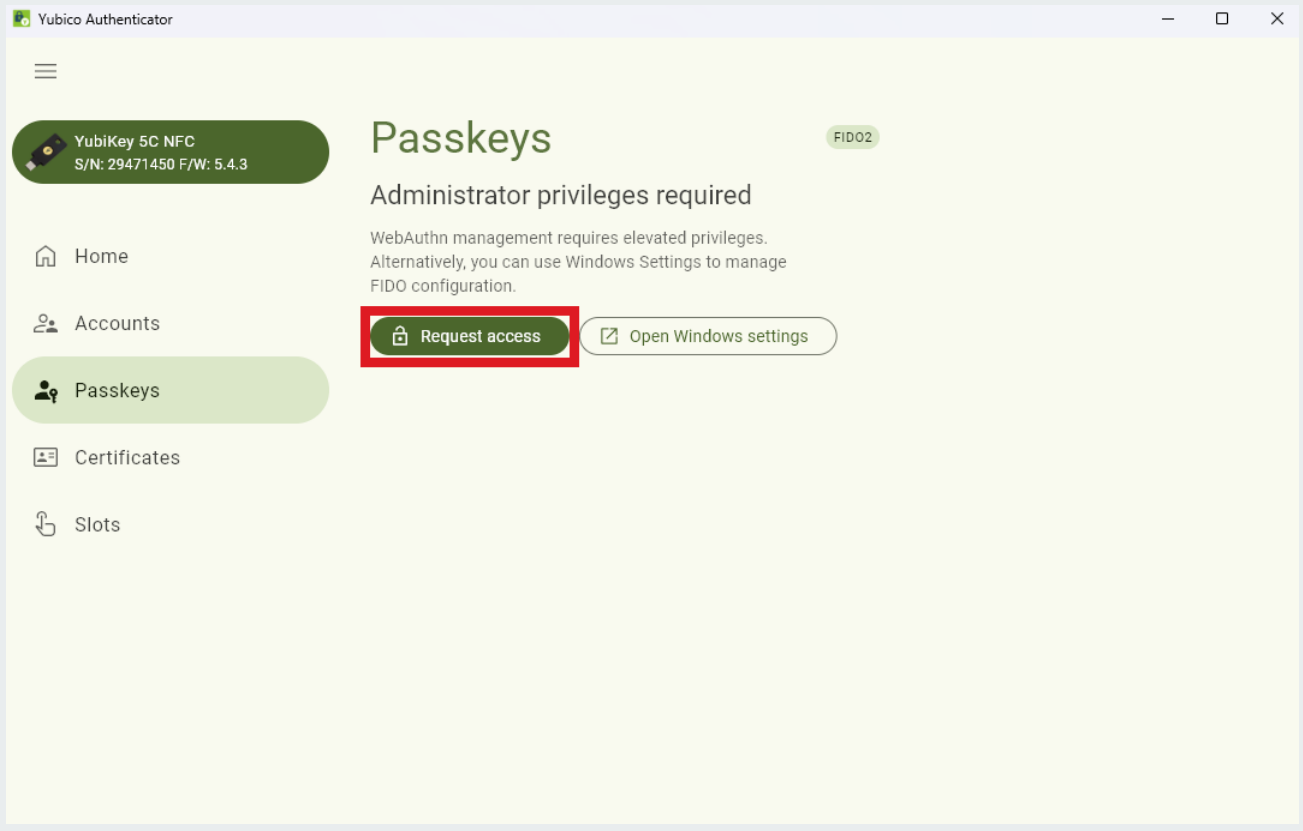
To update the second PIN, click on the **Passkeys** menu option to the left.

NOTE **StrongKey recommends using the same PIN for the Security Key.**



AP12 PASSKEYS MENU

In the Passkeys menu, select **Request Access.**

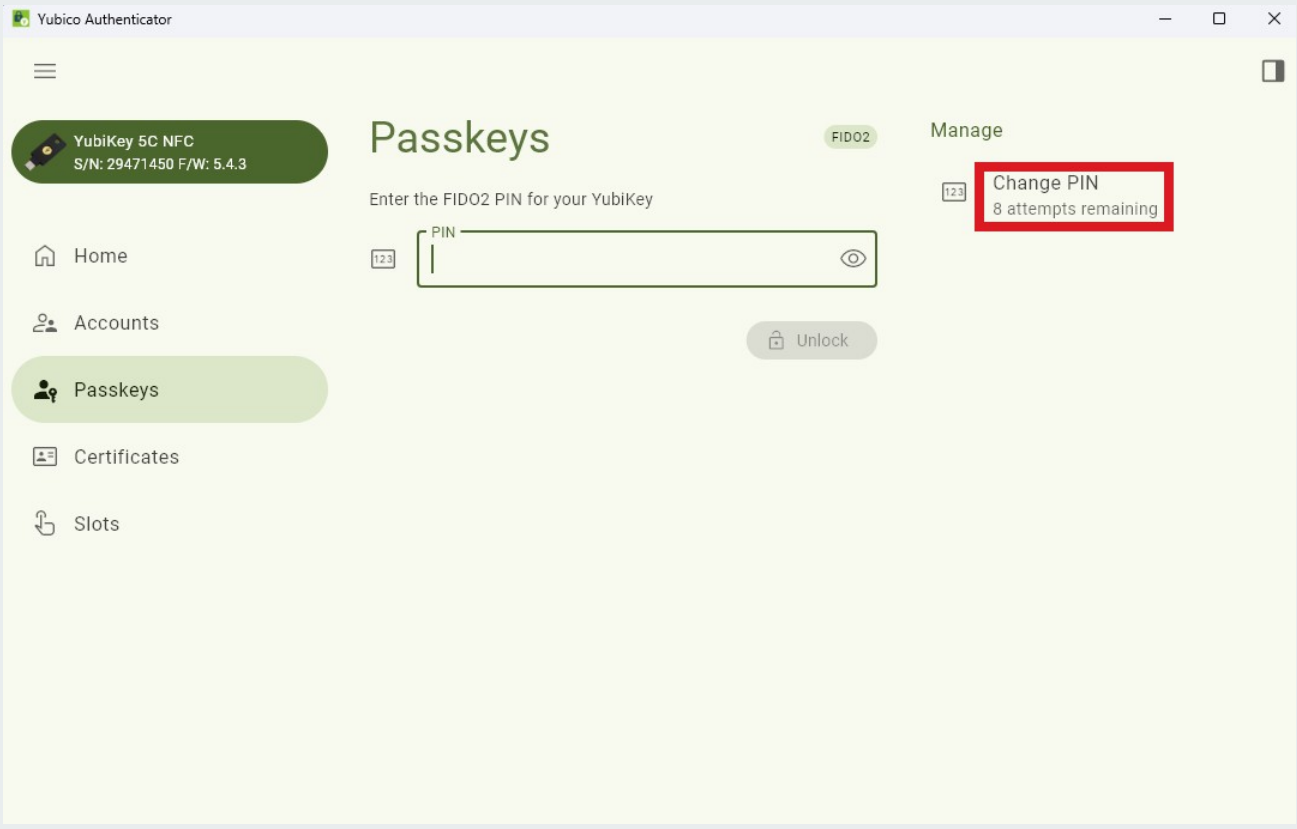


AP13 YUBICO AUTHENTICATOR APPLICATION PERMISSION

The Yubico Authenticator application will ask Windows for permission to implement changes on the computer. **Click yes.**

AP14 CHANGE PIN OPTION

Select the **Change PIN** option located on the right of the screen.



AP15 ENTER PIN INFORMATION

- In the text field marked **Current PIN** type in your current PIN. If you have not changed it, it is 123456 by default.
- In the text field marked **New PIN** enter a new PIN of your choice. It must be a minimum of 6, and up to 63 characters.
- In the text field marked **Confirm PIN** enter the same PIN you selected.

B16 SUCCESS!

The display will return to the **Passkeys** menu, and a notification stating "PIN Reset" will briefly appear at the bottom of the screen.