

2FA Setup via a FIDO2 Security Key

Introduction



FIDO2 security keys offer a safer alternative to the combo credentials/TOTP. With a security key (SK), you will substitute the TOTP authentication step with public key cryptography. If you register your SK with the IL, you basically create a private-public keypair (known as a credential) and store the private key in your SK while sending the public key and a randomly generated credential ID to the IL system for storage. Upon logging in, the IL system uses your public key to prove your identity. For more information see

<https://webauthn.guide/>

<https://fidoalliance.org/fido2/>

Because 2FA via a security key offers the strongest protection against cyber criminals, the IL encourages you always to use this method to login to all IL services.

Preliminary Actions

Make sure your security key is FIDO2-compatible by checking the vendor's website or obtain one from the Lorentz Institute IT Department. If you obtain a security key from the IL, you are **required** to return it upon termination of your contract and you are **obliged** to notify support@lorentz.leidenuniv.nl in case of key loss or theft. If you would like to use your private security key, notify support@lorentz.leidenuniv.nl your intention to register this device so that you can be guided through the procedure.

Once setup/registered, the same security key will be a valid second factor to access all IL 2FA-protected web services, the IL GNU/Linux workstations, and decrypt the disk of the IL rental laptops.

The setup of your security key differs slightly depending on whether you have already 2FA setup under your account, for instance via TOTP, or not. Follow the workflow below that is appropriate to your situation.

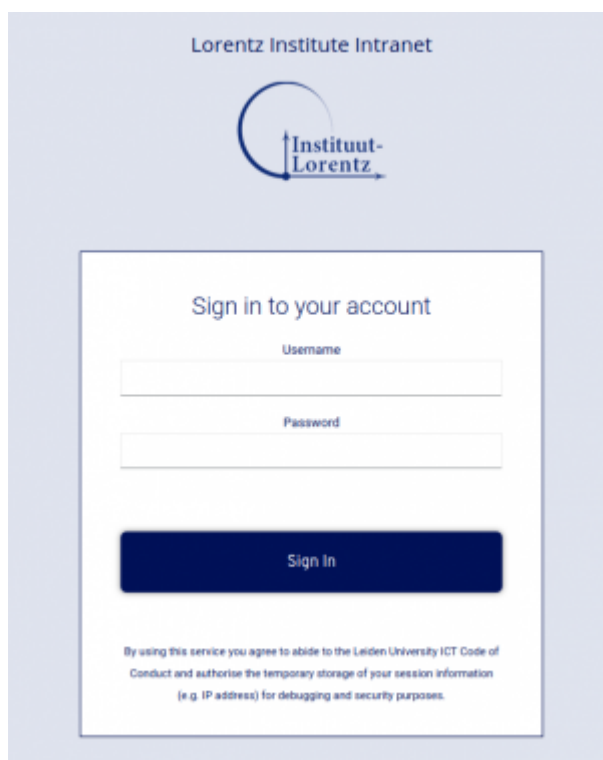
Setup without previous 2FA in place

Step 1

Notify the intention of registering a private key to support@lorentz.leidenuniv.nl.

Navigate to any of the Lorentz Institute SSO web applications, for instance our [Remote Workspace](#).

You will be redirected automatically to the Lorentz Institute Identity Provider login page as in **Figure 1**.



The image shows the Lorentz Institute Intranet login page. At the top, it says "Lorentz Institute Intranet" and features the "Instituut-Lorentz" logo. Below the logo is a white box with the heading "Sign in to your account". Inside this box are two input fields: "Username" and "Password". Below these fields is a dark blue button labeled "Sign In". At the bottom of the white box, there is a small disclaimer: "By using this service you agree to abide to the Leiden University ICT Code of Conduct and authorise the temporary storage of your session information (e.g. IP address) for debugging and security purposes."

Figure 1: Identity Provider login page

Step 2

Enter your IL credentials to sign in. Upon successful login, your browser will ask you to register your security key (Figure 2). Plug your security key into an available USB-A port of your PC/laptop and confirm by pressing or touching the key button ¹⁾.

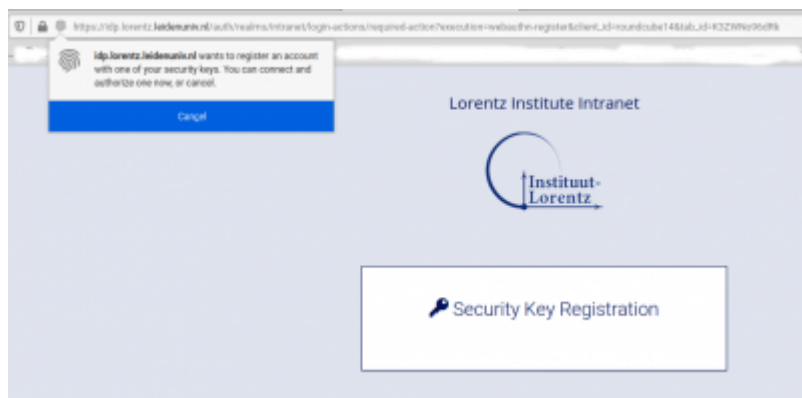


Figure 2: Security Key Registration

Step 3

Once your security key has been successfully added, your browser will ask you to add a label if you wish (Figure 3). Click on `OK`. Your SK setup is completed.

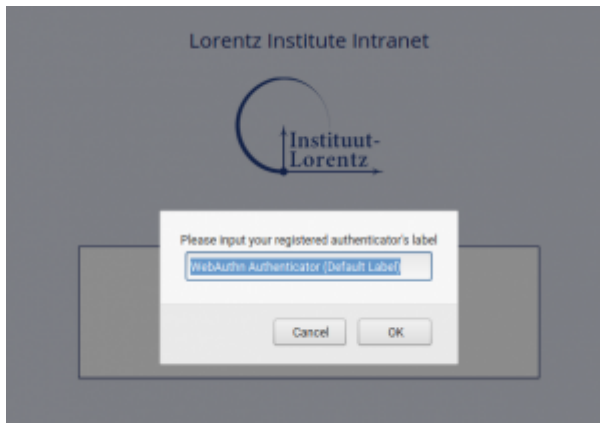


Figure 3: Key registration confirmation and label

Step 4

If Step 3 succeeds but your private e-mail address has not been validated yet, the system will send you an email to your private (not @lorentz) e-mail address with [precise instructions](#) on how to verify your identity. If your identity cannot be validated, you will not be granted access to the system.

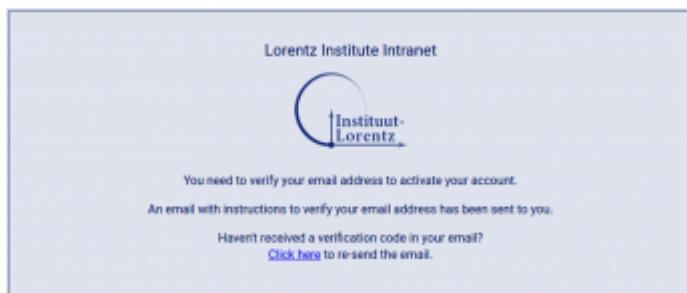


Figure 4: Verify your private email address.

Step 5

Verify your identity by visiting your private email inbox. You should have received an email from the Lorentz Institute Identity Provider ²⁾. Open that email and copy (for instance using on most platforms Control-C or right-mouse click copy) the secret code in the body of the message. Visit <https://www.lorentz.leidenuniv.nl/idp/> and paste (on most platforms Control-P or right-mouse click paste) the secret code in the white text area. Click on 'Submit'. Your identity is now verified.



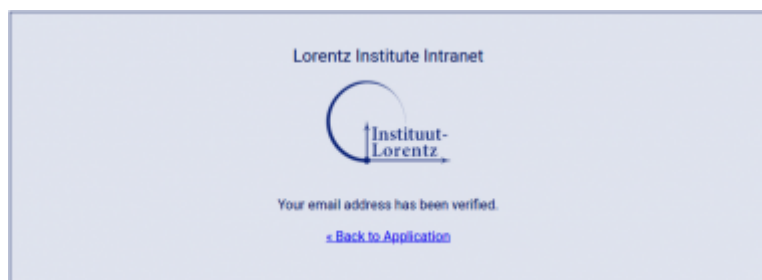


Figure 5: Screenshot of e-mail verification process.

Step 6

Click on *Back to application* to redirect your browser to the Lorentz Institute SSO web application from which you started the whole process or close the browser. Your setup is complete.

Setup with previous 2FA in place

Step 1

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You will be redirected automatically to the Lorentz Institute Identity Provider login page as in **Figure 1**.

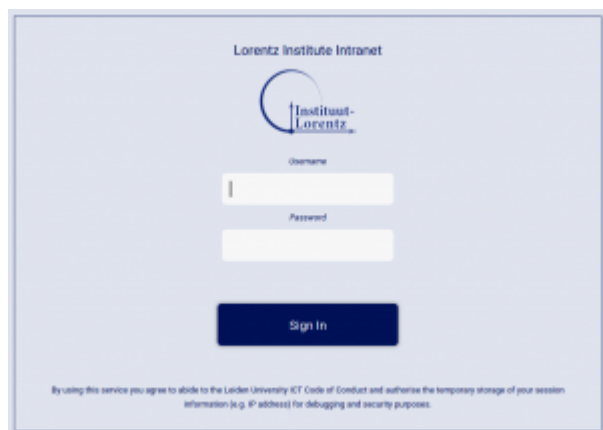


Figure 6: Identity Provider login page

Step 2

Enter your IL credentials and the correct TOTP to sign in. Upon successful login, your browser will ask you to register your security key (Figure 2). Plug your security key into an available USB-A port of your PC/laptop and confirm by pressing or touching the key button ³⁾.

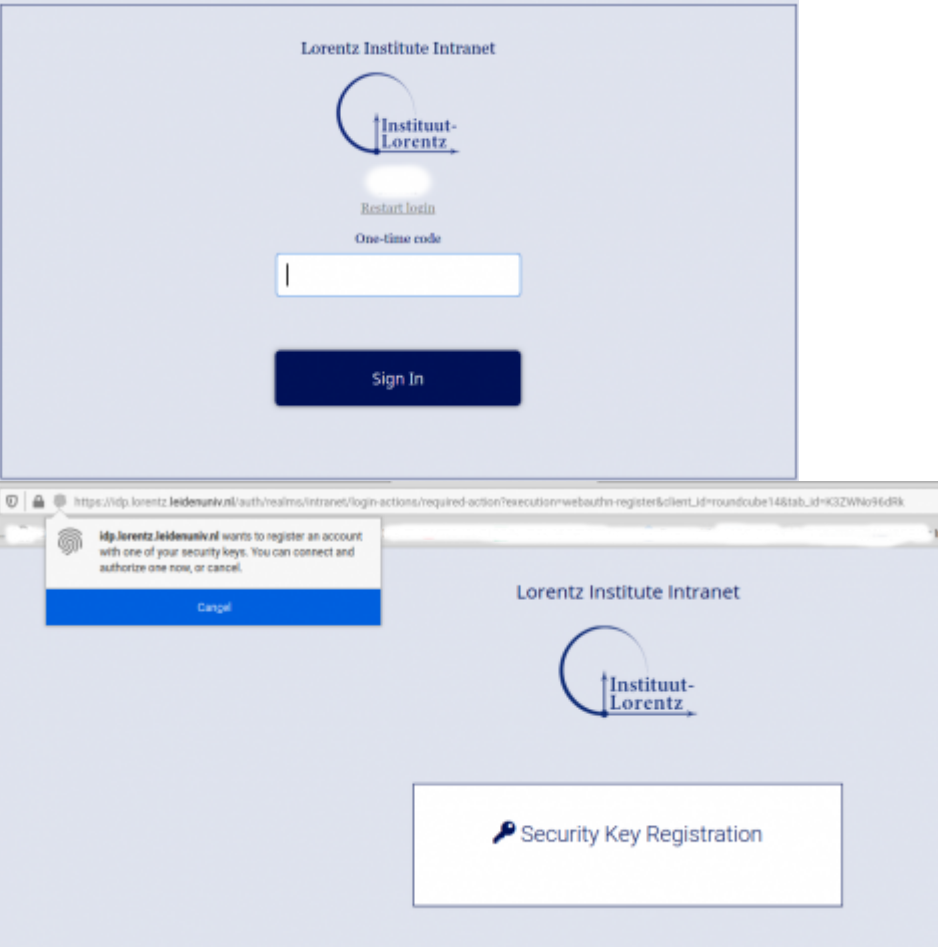


Figure 7: TOTP validation and Security Key Registration

Step 3

Once your security key has been successfully added, your browser will ask you to add a label if you wish (Figure 3). Click on `OK`. Your SK setup is completed.

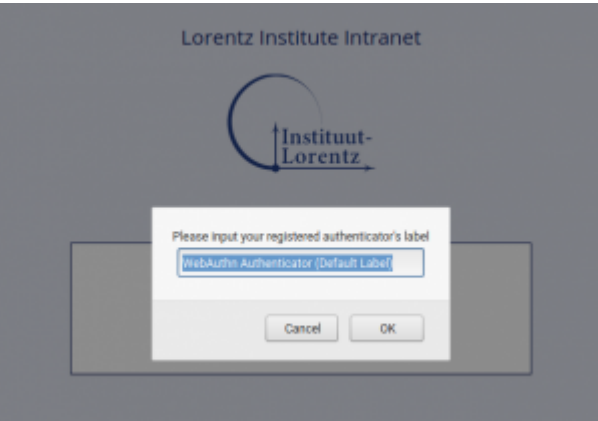


Figure 8: Key registration confirmation and label

Problems and Solutions

I cannot setup 2FA/access the system	Make sure we have your private email address on record
I lost my security key	Notify support@lorentz.leidenuniv.nl Change your IL credentials

Someone stole my security key	Notify support@lorentz.leidenuniv.nl Change your IL credentials
How do I disable 2FA?	2FA is mandatory on all SSO web services and to access our SSH server

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Key confirmation actions, such as pushing or touching, depend on the key used, please read the manual of your key's vendor

2)

Details of this email are not disclosed here to prevent phishing.

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