

Two-Factor Authentication (2FA)

Since now, access to the computing resources with **2FA** is required.

All the computing services where the access with IPA is needed such as **HPC login system, Nextcloud, Confluence, Indico or the OpenStack Dashboard** need to access with the "**Password+OTP code**" (all in a row, without the "+" symbol).

The OTP code is a one-time password, also known as a dynamic password, used as a second authentication factor in addition to the commonly used username and password. It is only valid once, so even if an attacker manages to get hold of it, he/she cannot reuse it.

To enable this method in freeipa, must follow the next steps:

1. Install an App such as [Authy](#) or similar app for OTP generator (Google Authenticator or Microsoft Authenticator, FreeOTP, ... [alternative apps page](#)), to your **Mobile Device**.



Authy



[blocked URL](#)

Microsoft Authenticator

[blocked URL](#)

[blocked URL](#)

[blocked URL](#)

[blocked URL](#)

This application will give us the OTP codes generated through the token created, this code will change every 30sg and will be valid only once.

Note: RSA authenticator (SecurID) application gives some problems.

2. Login as usual at IFCA Auth System (<https://auth01.ifca.es> or <https://auth02.ifca.es>) using your credentials (User / Password)

2. This is your user area

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Users OTP Tokens

User:

Identity Settings

Job Title

First name *

Last name *

Full name *

Display name

Initials

Car License

Contact

Email address

Telephone Number

Pager Number

Mobile Telephone Number

Fax Number

3. As a user, access to the token area

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Users **OTP Tokens**

User:

Identity Settings

Job Title

First name *

4. As a user, add the OTP token.

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Users OTP Tokens

OTP Tokens

<input type="checkbox"/>	Unique ID	Owner	Status	Description
<input type="checkbox"/>				

5. Add the new token and you will generate the QR code that you will have to scan with your chosen mobile device App (Section 1 - Install an App)

Add OTP Token

Type

☒ Time-based (TOTP)
 ☐ Counter-based (HOTP)

Description

OTP token for IFCA services

* Required field

Add

Add and Add Another

Add and Edit

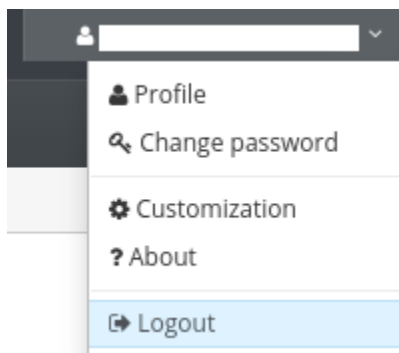
Cancel

6. You will see the QR code or token that you need to enter in your mobile app (Installed in step 1 - Authy, Google Authenticator, Microsoft Authenticator, FreeOTP, ...).

7. Now you will see your token created and enable in your user area

freeIPA			
Users OTP Tokens			
OTP Tokens			
<div>Search</div> <div> <div>Unique ID</div> <div>Owner</div> <div>Status</div> <div>Description</div> </div> <div> <div>Showing 1 to 1 of 1 entries.</div> </div>			
<div> <div>Refresh</div> <div>Delete</div> <div>Add</div> <div>Disable</div> <div>Enable</div> </div>			
<div> <div> <input type="checkbox"/> Unique ID </div> <div> <input type="checkbox"/> Owner </div> <div> <input checked="" type="checkbox"/> Enabled </div> <div> OTP token for IFCA services </div> </div>			

8. Logout freeipa



9. OTP Token Synchronization

Before you can log in with 2FA for the first time, you must **synchronize the OTP token**. For this purpose, in the login window to the IPA server, select the Sync OTP Token option .

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Open Source Identity Management Solution

Username ★

Password ★

[Login Using Certificate](#) [Sync OTP Token](#) [Login](#)

10. Fill in the username and your password, then enter the first code that appears in the Authy/OTP App in the First OTP field and the next code (appearing after 30sg) in the Second OTP field.

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Username ★

Password ★

First OTP ★

Second OTP ★

Token ID

One-Time-Password(OTP): Generate new OTP code for each OTP field.

[Cancel](#) [Sync OTP Token](#)

11. How to use OTP Token Synchronization

Now when you try to access to IFCA systems you must enter your passwd followed by the OTP code showed in the **Authy/OTP app**.

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Open Source Identity Management Solution

Username ★

Password ★

Passwd **TOTP**

[Login Using Certificate](#) [Sync OTP Token](#) [Login](#)

If you have any questions, please contact us at [computing.support@ifca.unican.es]