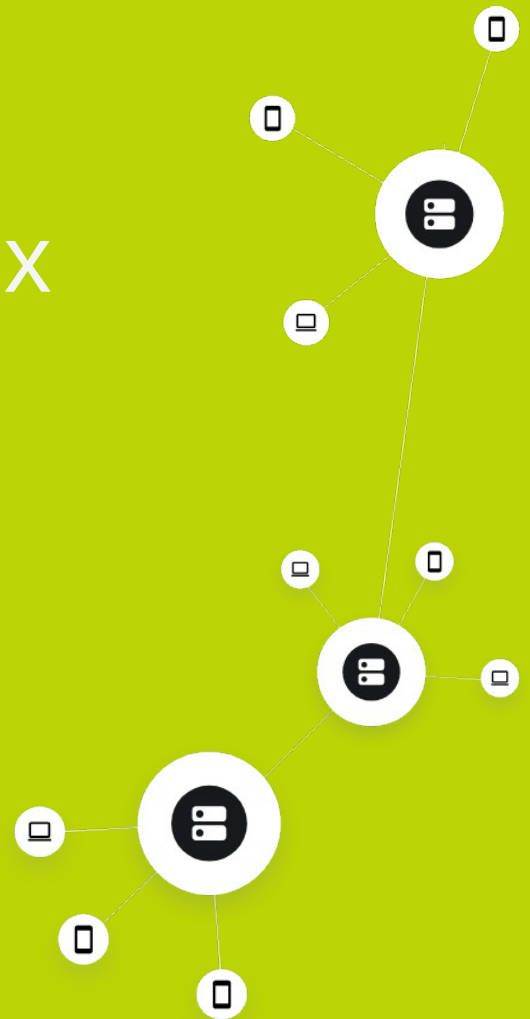




IFISC joins the matrix

[**matrix**]



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What will I talk about?



What is [matrix] ?

An open network for secure, decentralised communication

How does it compare to similar services

Has common features with e-mail, I.M. services and collaborative frameworks

Why you'll enjoy it

Security and privacy focused.

How to start using it

You all have an account already... and no need to install anything...

Limitations we've found

Some, but they/we are working on it.

Share your thoughts

Some have been using it for weeks...

What is [matrix] ?

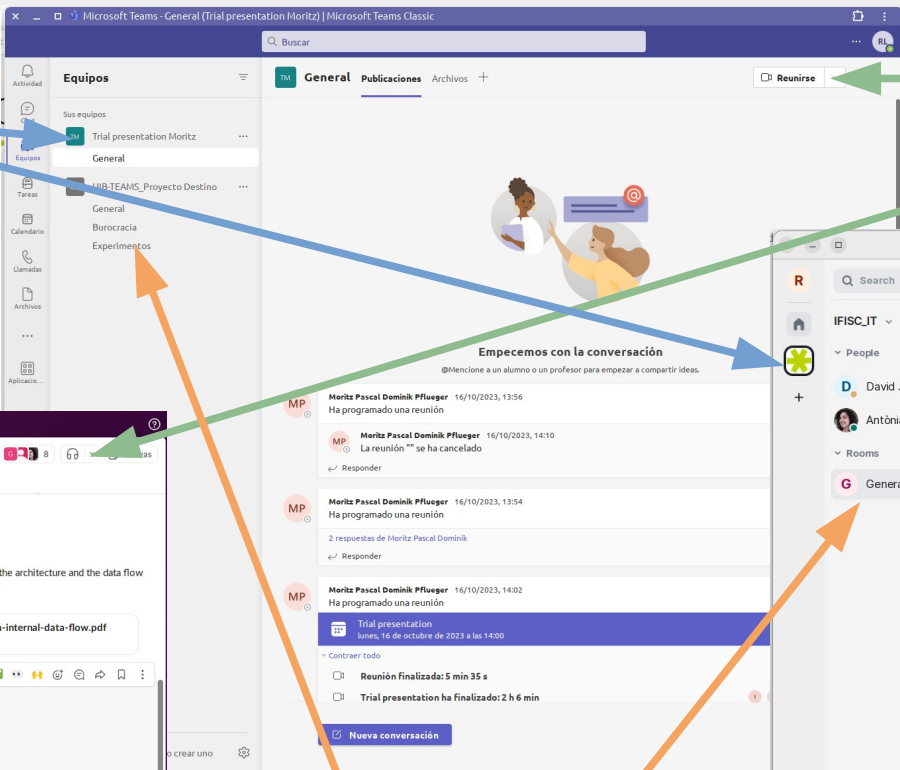


- *An open network [protocol] for secure, decentralised communication (matrix.org)*
 - Matrix is not a program, it is a **Protocol** (like HTTP, SMTP or FTP).
 - It's **Open**: well known, free to use, so anyone can create a program to use it. No need to tie to just one.
 - A very complete and modern **communication** protocol for managing communities.
 - Focused around **security** and privacy. You really know who you're talking to...
 - **Decentralised**: you can use matrix.org server, or your company server, or your own (like email servers).
 - What happens if matrix.org fails?

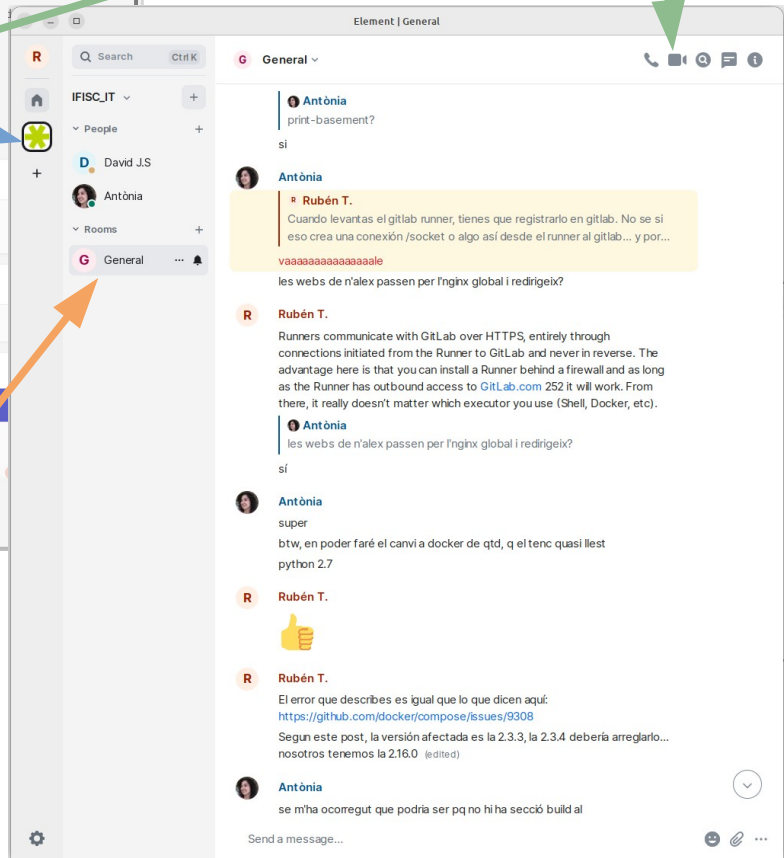
How does it compare to similar services?

- Communicating is much more than 1 to 1 chatting by text
- Are you familiar with... ?
 - Slack
 - Huddles (juntas), Spaces, Channels...
 - Teams
 - Meetings, Teams, Channels...
- In matrix (at least in Element client) they are called:
 - Videocalls, Spaces, and Rooms

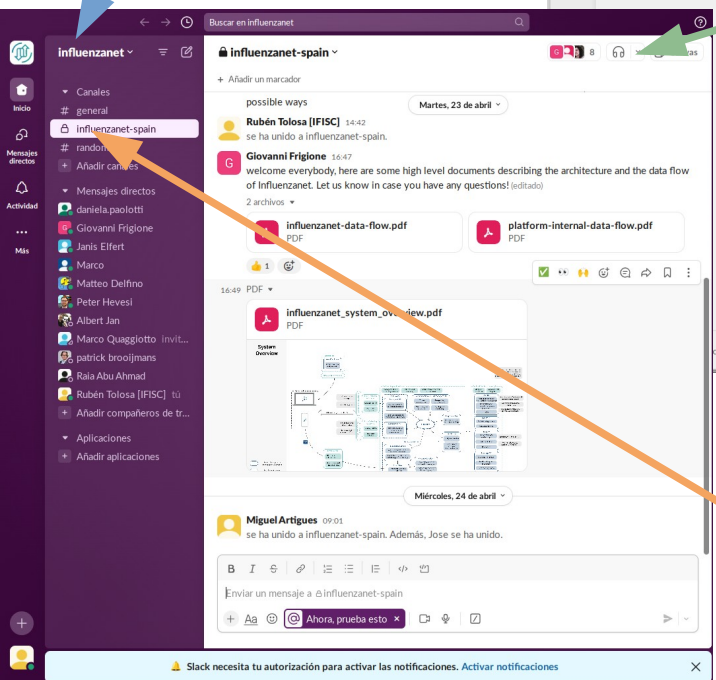
Teams / Spaces



Videocalls

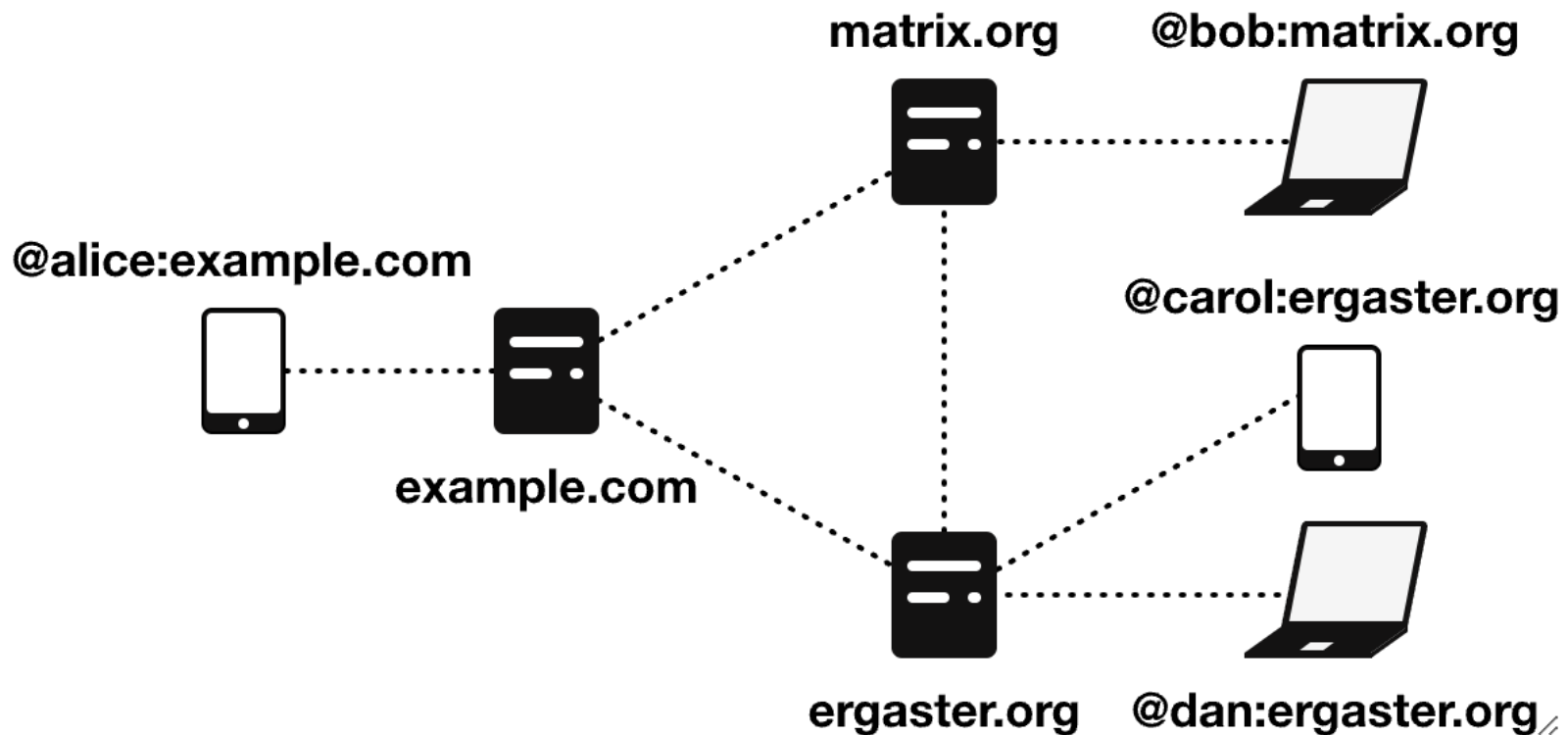


Channels / Rooms



Why you'll enjoy it?

- Open standar means interoperability



- Open standar means interoperability
- Chats and user data are sent and stored encrypted in private server
- Strong authentication. Verification of client protects against account theft.
- Not tied to a single client/program



NeoChat



SchildiChat



Hydrogen



Quaternion



Element



Cinny



FluffyChat



Thunderbird

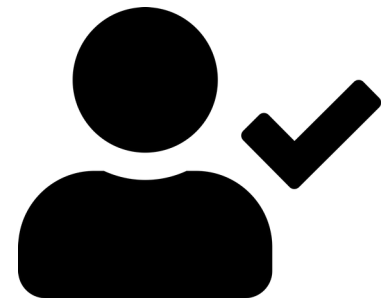


Syphon

- Open standar means interoperability
- Chats and user data are sent and stored encrypted in private server
- Strong authentication. Verification of client protects against account theft.
- Not tied to a single client/program
- High quality video-calls. Specially 1 to 1 calls in local network.
- You don't have to register... IFISC users already have an account



HD

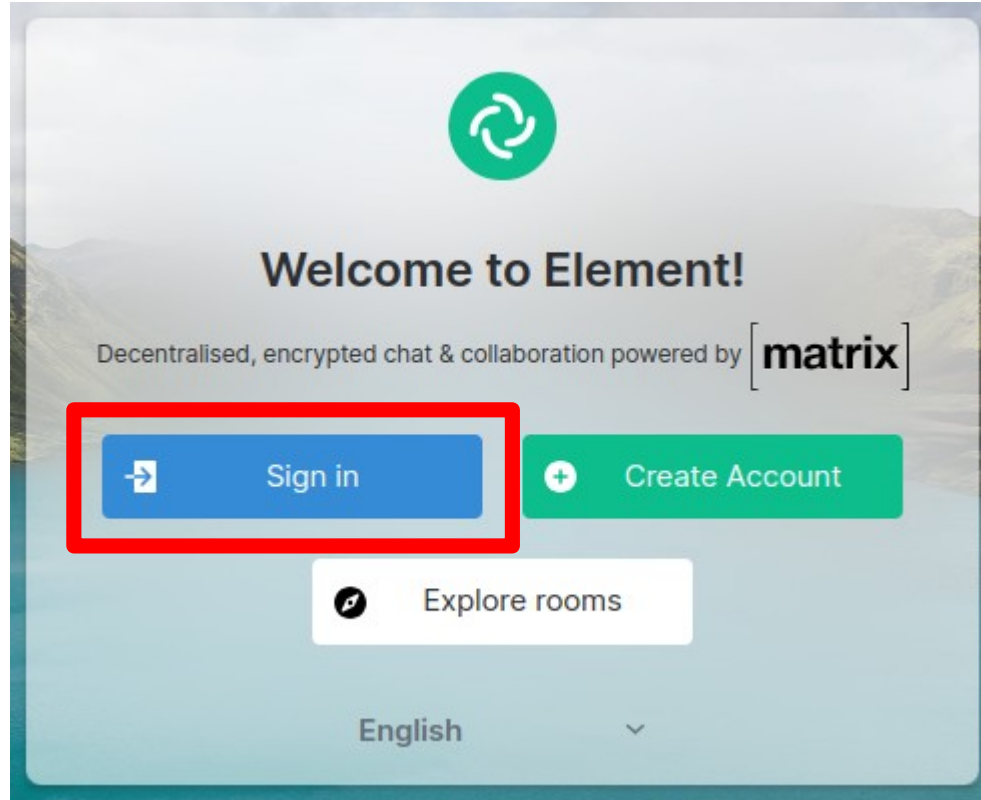


How to start using it?

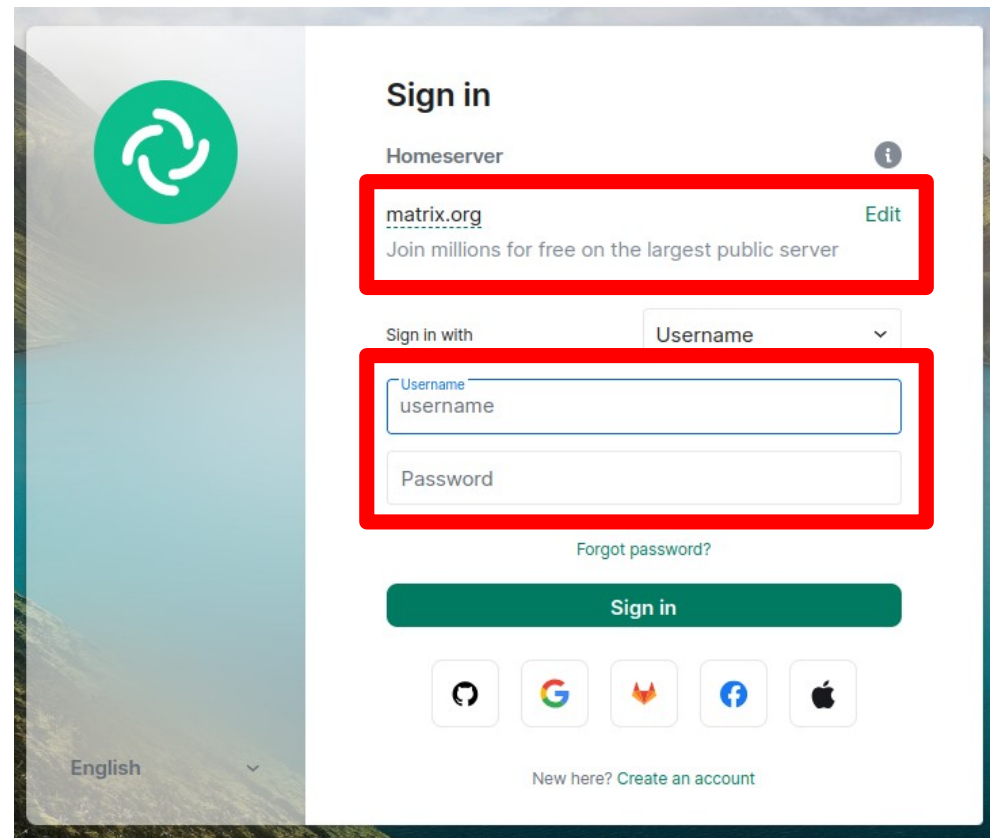
- Install Element (or not):
 - Windows, MacOS [and also Linux]:
 - <https://element.io/download>
 - Linux:
 - `~$ snap install element-desktop`
 - Android, iPhone stores:
 - Search for “Element” [Not Element X]
 - Use it just on the browser:
 - <https://app.element.io>



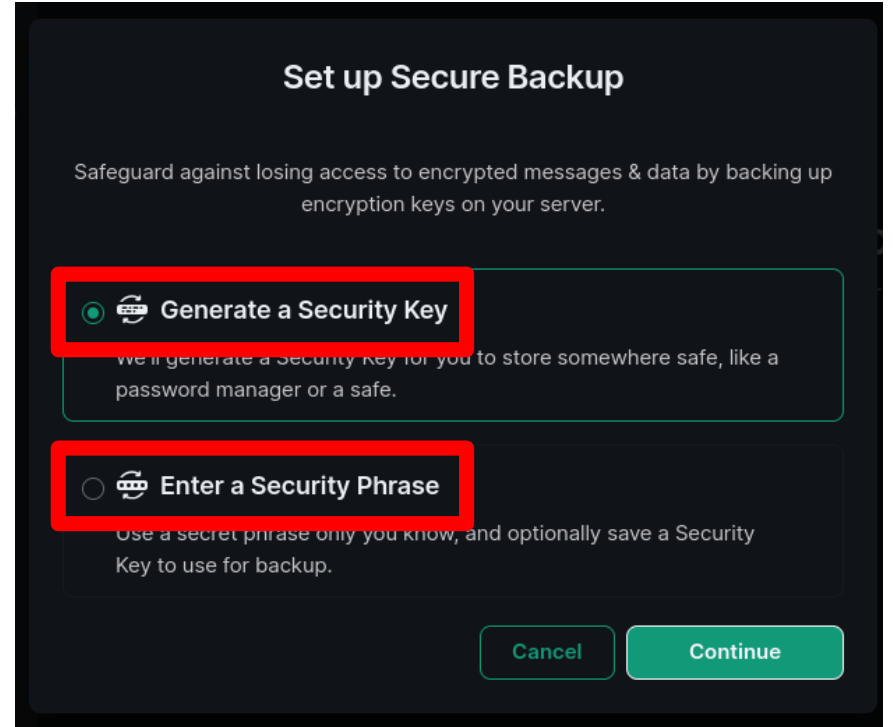
- Configure Element (or other):



- Configure Element (or other):
 - Homeserver:
 - Replace “matrix.org” with our matrix homeserver:
 - ifisc.uib-csic.es
 - User and password:
 - Use your IFISC user account credentials (the same for the intranet/email)

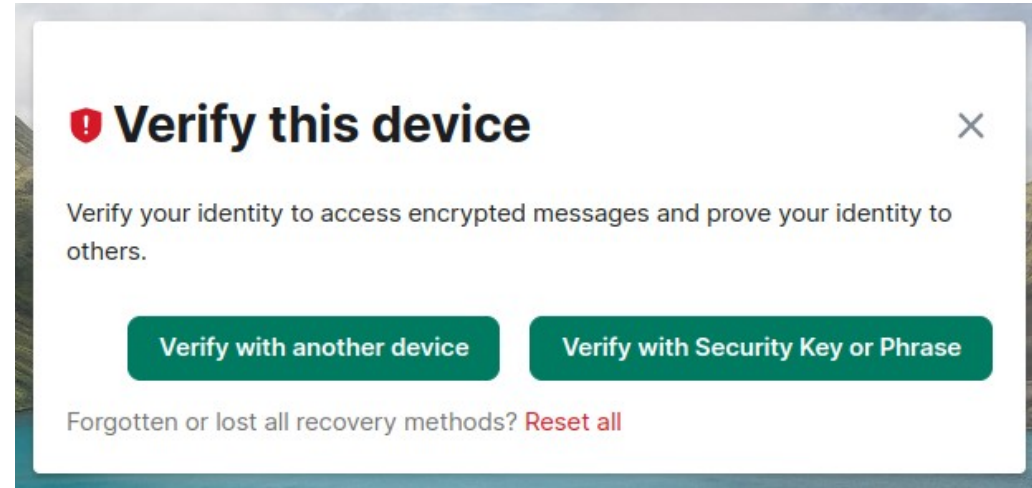


- Security:
 - VERY IMPORTANT (unless if you don't mind loosing all your messages):
 - First time you log in you will be prompted to use one of the available options to save a backup of your message encryption keys.

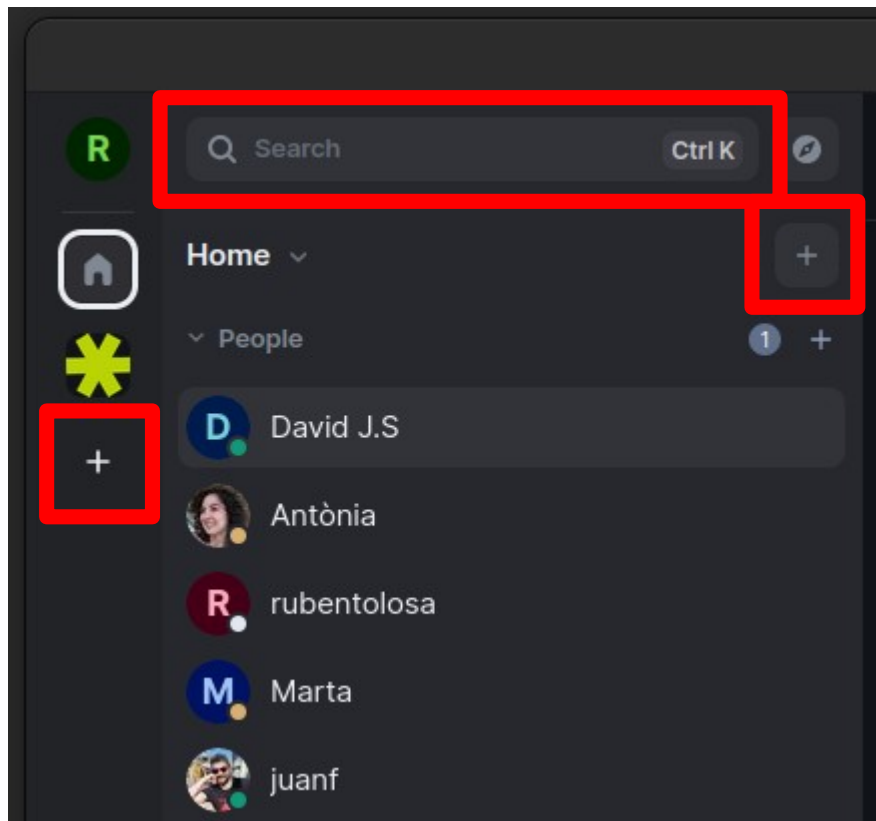


- **Security:**

- VERY IMPORTANT (unless if you don't mind loosing all your messages):
 - First time you log in you will be prompted to use one of the available options to save a backup of your message encryption keys.
- Every time you log out or log in with a new device, you'll have to verify it
 - It is possible to do it with another device already verified



- Start a new chat:
 - Enter a user identifier:
 - @username:homeserver.address
 - @ruben:ifisc.uib-csic.es
 - @rubentolosa:matrix.org
 - Use global search for people you already have a chat started
 - And start creating spaces, rooms, etc.



Limitations we've found

- Pin conversation / message not available
 - You can create threads
- Only one account at a time can be managed [Element]
 - Other clients do have support for multi-account
- GIFs: No GIF keyboard.
 - Copy&Paste from the web works
- It's not possible to invite someone to a space, room or videocall if he does not have a matrix account.
 - Accounts are free and very easy to get at matrix.org
- Screen share when using Wayland X server [also affects zoom and others]
 - Switch to Xorg
- Screen share on many-to-many videocalls may not work [Element]
 - Popping out the videocall plugin (it opens on the browser) is a workarround

THANKS

for your attention and...

ENTER THE

MATRIX