

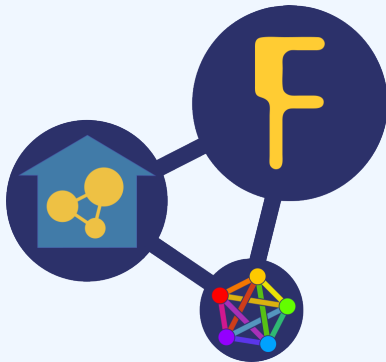
HUBZILLA

PIONEERING A SAFER, MORE RESILIENT FEDIVERSE

HARALD EILERTSEN

HUBZILLA CORE CONTRIBUTOR
EILERTSENS KODEKNEKKERI

15. APRIL, 2025



The fediverse — or *the social web* — is a federated, decentralized social network consisting of separate web servers spread out across the web.

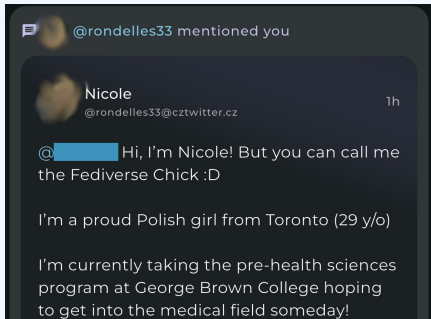
Actors share **social interactions** between themselves, regardless of which server or platform they're using.

Some of the most popular platforms on the fediverse today is **Mastodon**, **PixelFed**, **Lemmy** and **PeerTube**.

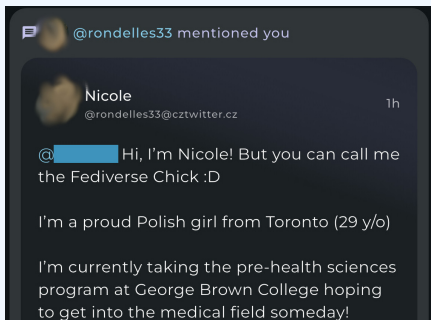


Hubzilla is an extensible fediverse server with a focus on **privacy, resiliency** and **safety**.

MEET NICOLE

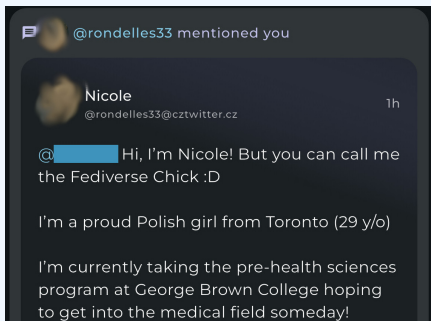


MEET NICOLE



Spam is a problem on any network of any size or popularity.

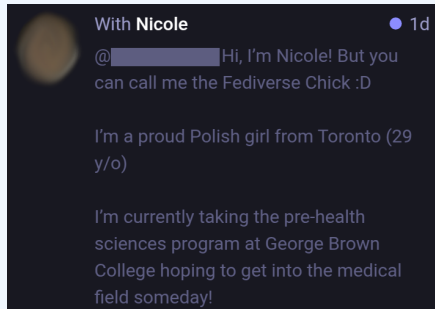
MEET NICOLE



Spam is a problem on any network of any size or popularity.

While the Nicole spam is annoying, it points to a bigger problem in the fediverse.

A lack of comment controls.



Privacy Settings

Opt-out of search engine indexing

Yes

Automatically approve new contacts

No

Accept all messages which mention you This setting bypasses normal permissions

No

Accept unsolicited comments for moderation Otherwise they will be silently dropped

No

Enable OCAP access Grant limited posts the right to access linked private media

Yes

Submit

Basic Settings

Channel role

Personal

Public

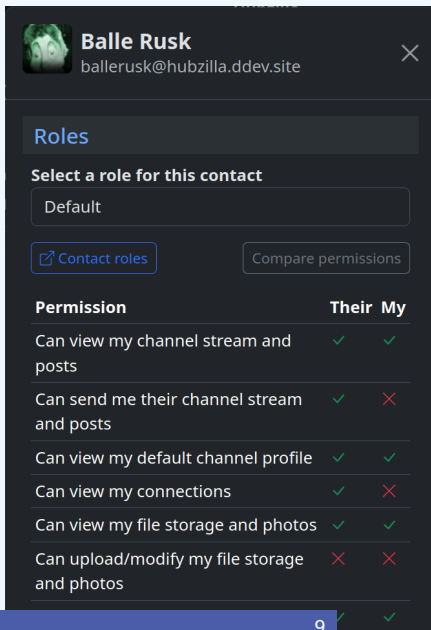
Personal

Community forum

Custom

A base set of permissions are assigned to your channel, and defines the interactions allowed by anyone, including people not (yet) connected.

PERMISSIONS



The screenshot shows a contact named "Balle Rusk" with the email address "ballerusk@hubzilla.ddev.site". The "Roles" section is active, showing a "Default" role selected. There are two buttons: "Contact roles" (with an external link icon) and "Compare permissions". Below is a table comparing permissions for "Their" and "My" contacts.

Permission	Their	My
Can view my channel stream and posts	✓	✓
Can send me their channel stream and posts	✓	✗
Can view my default channel profile	✓	✓
Can view my connections	✓	✗
Can view my file storage and photos	✓	✓
Can upload/modify my file storage and photos	✗	✗

Further permissions can be assigned to individual contacts, or grouped into contact roles.

PERMISSIONS

Can upload/modify my file storage and photos	✗	✗
Can view my channel webpages	✓	✓
Can view my wiki pages	✓	✓
Can create/edit my channel webpages	✗	✗
Can write to my wiki pages	✗	✗
Can post on my channel (wall) page	✗	✗
Can comment on or like my posts	✓	✗
Can send me direct messages	✓	✗
Can like/dislike profiles and profile things	✓	✗
Can chat with me	✓	✗
Can source/mirror my public posts in derived channels	✗	✗
Can administer my channel	✗	✗

⚙ Contact Tools ▾

Approve connection

Providing a solid system that lets you decide how others should be allowed to interact with your channel.

PERMISSIONS

Can upload/modify my file storage and photos	✗	✗
Can view my channel webpages	✓	✓
Can view my wiki pages	✓	✓
Can create/edit my channel webpages	✗	✗
Can write to my wiki pages	✗	✗
Can post on my channel (wall) page	✗	✗
Can comment on or like my posts	✓	✗
Can send me direct messages	✓	✗
Can like/dislike profiles and profile things	✓	✗
Can chat with me	✓	✗
Can source/mirror my public posts in derived channels	✗	✗
Can administer my channel	✗	✗

Contact Tools ▾

Approve connection

Providing a solid system that lets you decide how others should be allowed to interact with your channel.

From being completely invisible to strangers...

PERMISSIONS

Can upload/modify my file storage and photos	✗	✗
Can view my channel webpages	✓	✓
Can view my wiki pages	✓	✓
Can create/edit my channel webpages	✗	✗
Can write to my wiki pages	✗	✗
Can post on my channel (wall) page	✗	✗
Can comment on or like my posts	✓	✗
Can send me direct messages	✓	✗
Can like/dislike profiles and profile things	✓	✗
Can chat with me	✓	✗
Can source/mirror my public posts in derived channels	✗	✗
Can administer my channel	✗	✗

Contact Tools ▾

Approve connection

Providing a solid system that lets you decide how others should be allowed to interact with your channel.

From being completely invisible to strangers...

...to a fully public profile open to anyone.

SEPARATION OF ACCOUNT AND IDENTITIES



- One account can have many separate identities.

SEPARATION OF ACCOUNT AND IDENTITIES



- One account can have many separate identities.
- For different purposes, or different audiences.

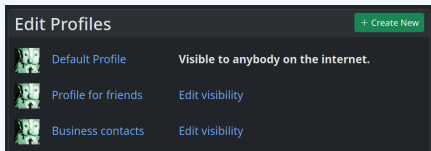
SEPARATION OF ACCOUNT AND IDENTITIES



- One account can have many separate identities.
- For different purposes, or different audiences.
- Identities (or channels) are completely separate, but accessed through the same account.

ONE IDENTITY, MULTIPLE PROFILES

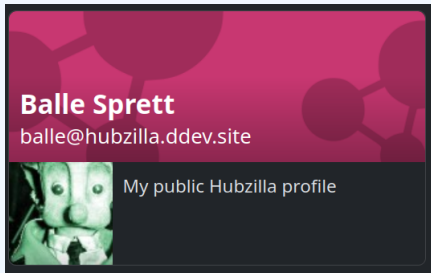
Multiple profiles allows displaying different info to different contacts.



The screenshot shows a dark-themed 'Edit Profiles' interface. At the top right, there is a green button labeled '+ Create New'. Below the title, there are three profile entries, each with a small profile picture icon on the left, a name in the middle, and a visibility setting on the right.

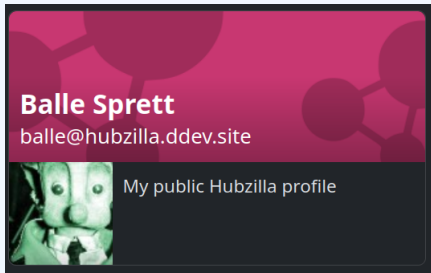
Profile Name	Visibility
Default Profile	Visible to anybody on the internet.
Profile for friends	Edit visibility
Business contacts	Edit visibility

ONE IDENTITY, MULTIPLE PROFILES



The default profile is visible to anybody, even unauthenticated visitors.

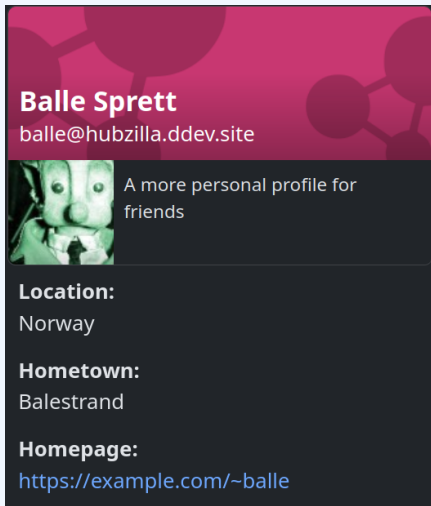
ONE IDENTITY, MULTIPLE PROFILES




The default profile is visible to anybody, even unauthenticated visitors.

You may want to be careful about what info to display here.

ONE IDENTITY, MULTIPLE PROFILES



Balle Sprett
balle@hubzilla.ddev.site



A more personal profile for friends

Location:
Norway

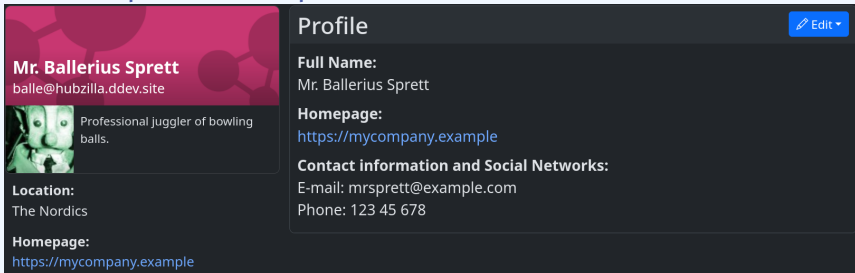
Hometown:
Balestrand

Homepage:
<https://example.com/~balle>

But you can have a separate profile with a bit more info for friends and family...


ONE IDENTITY, MULTIPLE PROFILES

... and a professional profile for business contacts.



The image shows a professional profile card for Mr. Ballerius Sprett. The card has a dark background with a red header. On the left, there is a profile picture of a dog and a bio: 'Professional juggler of bowling balls.' Below the picture, it lists 'Location: The Nordics' and 'Homepage: https://mycompany.example'. On the right, the title 'Profile' is followed by an 'Edit' button. Below the title, it lists 'Full Name: Mr. Ballerius Sprett', 'Homepage: https://mycompany.example', and 'Contact information and Social Networks: E-mail: mrsprett@example.com, Phone: 123 45 678'.

Mr. Ballerius Sprett
balle@hubzilla.ddev.site

 Professional juggler of bowling balls.

Location:
The Nordics

Homepage:
<https://mycompany.example>

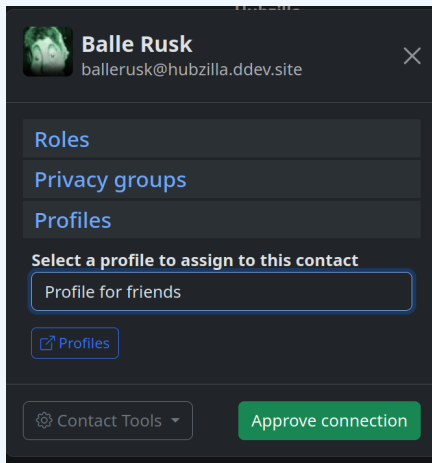
Profile Edit

Full Name:
Mr. Ballerius Sprett

Homepage:
<https://mycompany.example>

Contact information and Social Networks:
E-mail: mrsprett@example.com
Phone: 123 45 678

ONE IDENTITY, MULTIPLE PROFILES



You can assign what profile to show to individual contacts.



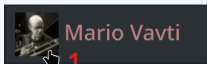
OpenWebAuth or Magic Sign-On is a simple cross site authentication protocol, allowing users from one site to authenticate on another.



OpenWebAuth or Magic Sign-On is a simple cross site authentication protocol, allowing users from one site to authenticate on another.

This is what enables the sophisticated access control powered by the Hubzilla permission system.


OPENWEBAUTH/MAGIC SIGN-ON



OpenWebAuth: hub.somaton.com welcomes Harald Eilertsen

2

Hubzilla 10.2.3 Released!

 **Mario Vavti**
mario@hub.somaton.com

15 hours ago



Hubzilla 10.2.3

- Fix bogus merge from 10.2.2 release which broke the notifications widget

Sorry for the noise!

CC: @Fediverse News

👍 17 🗨️ 😊

 **morph** 
morph@hub.morphtown.de

15 hours ago


@Mario Vavti 🙌

👍 🗨️

Awesome! Thanks for the quick fix!

3

B / U “ <> ✎ 🔗 🔑



4 

Manage Channel Locations

 Sync Now

Please wait several minutes between consecutive operations.

When possible, drop a location by logging into that website/hub and removing your channel.
Use this form to drop the location if the hub is no longer operating.

Address	Location	Primary	Drop
pepecyb@hub.hubzilla.hu	https://hub.hubzilla.hu	<input checked="" type="checkbox"/>	
pepecyb@hub.hubzilla.de	https://hub.hubzilla.de	<input type="checkbox"/>	
pepecyb@klacker.org	https://klacker.org	<input type="checkbox"/>	

Manage Channel Locations Sync Now

Please wait several minutes between consecutive operations.

When possible, drop a location by logging into that website/hub and removing your channel. Use this form to drop the location if the hub is no longer operating.

Address	Location	Primary	Drop
pepecyb@hub.hubzilla.hu	https://hub.hubzilla.hu	<input checked="" type="checkbox"/>	
pepecyb@hub.hubzilla.de	https://hub.hubzilla.de	<input type="checkbox"/>	
pepecyb@klacker.org	https://klacker.org	<input type="checkbox"/>	

Cloning your identity to another server provides:

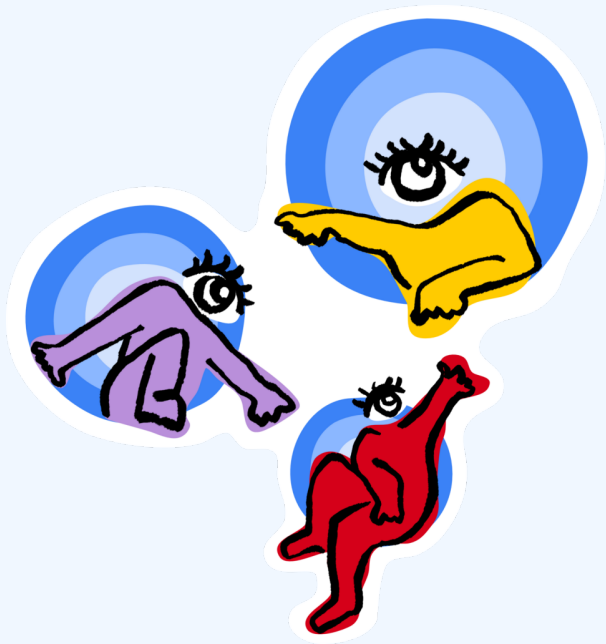
- **Resiliency:** Your data is backed up and available
- **Censorship resistance:** No single admin can silence you
- **Transparency:** Your contact still see you as *one* identity



- All content is synced between the servers, not just your contacts



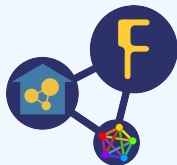
- All content is synced between the servers, not just your contacts
- Clones are synced in near real time, allowing you access even during temporary outages



Thank
You!



A special thank you to Mike Macgirvin, who actually made all this stuff!



- Hubzilla project website: <https://hubzilla.org>
- OpenWebAuth/Magic Sign-On: <https://magicsignon.org>
- Hubzilla online help: <https://help.hubzilla.hu/en/>