# Fediverse

> The Federation, or as often called the “Fediverse”, refers to a global social network composed of nodes that talk to each other. Each of them is an installation of software which supports one of the federated social web protocols. These social hubs create a decentralized and federated social network of millions of users all around the globe. This is how the internet was supposed to be.

## Apps

| App Instances | App Website | Source Code | Description |
|---|---|---|---|
| Aardwolf | https://aardwolf.social/ | https://github.com/Aardwolf-Social/aardwolf | Building social communities with open software. |
| ActivityRelay / ActivityRelay #2 | https://git.pleroma.social/pleroma/relay | https://git.pleroma.social/pleroma/relay#setup | Generic LitePub relay (works with all LitePub consumers and Mastodon) |
| ActorsCafé | | https://github.com/Xeltica/actorscafe | Decentralized, lightweight, and good for single-user microblogging platform. |
| AndStatus | | | ActivityPub C2S Client for Android that not only has basic implementation of the ActivityPub Client-to-Server spec, but which has internal data model close to the ActivityPub/ActivityStreams data model. |
| Anfora | https://anfora.app/ | https://github.com/anforaProject/anfora | A decentralized image sharing platform. |
| aoderelay | | | |

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|---|---|---|---|
| Bonfire | https://bonfire.cafe/ | https://gitlab.com/bonfire-ecosystem/activitypub | Your plug & play federated social network. Bonfire aims to expand your freedom as a user of social networks, puts your data in your own hands (literally) and connects you with the people and communities you care about. / A generic ActivityPub federated server. |
| bookwyrm | https://fedireads-test.glitch.me/ | https://github.com/mouse-reeve/bookwyrm | Social reading and reviewing, decentralized with ActivityPub. |
| Castling Club | https://castling.club/ | https://github.com/stephank/castling.club | An ActivityPub server with a single hardcoded 'King' service actor that acts as a chess arbiter. |
| corgidon | | | |
| cpub | | https://gitlab.com/openengiadina/cpub | CPub is a general ActivityPub server built upon Semantic Web ideas. Most notably it also implements a Linked Data Platform (LDP) and uses RDF Turtle as serialization format. |
| diaspora* | https://diasporafoundation.org | https://github.com/diaspora/diaspora , https://wiki.diasporafoundation.org/Installation | A privacy-aware, distributed, open source social network. |
| Discourse | | | Discussion on Federation support for Discourse. |

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|---|---|---|---|
| distbin | | https://github.com/gobengo/distbin | Post bin with distributed social features. A networked place to store posted web documents. This is meant to allow for distributed social commentary and reaction around these documents using best practices recommended or noted by the W3C Social Web Working Group. |
| dolphin | | https://github.com/syuilo/dolphin | |
| dokieli | https://dokie.li/ | https://github.com/linkeddata/dokieli | Clientside editor for decentralised article publishing, annotations and social interactions. |
| ejabberd | https://ejabberd.im | https://docs.ejabberd.im/ | |
| epicyon | https://epicyon.net/ | https://gitlab.com/bashrc2/epicyon | Modern ActivityPub compliant server, designed for simplicity and accessibility. Includes calendar, news and sharing economy features to empower your federated community. |
| FediBlog | https://fedi.blog/ | https://framagit.org/DavidLibeau/FediBlog | WIP — Easy self-hosted, ActivityPub, Markdown, PHP, NoSQL, fully customisable blog engine for noob web devs and others! |
| fedireads | | | |
| Flounder | https://flounder.online/ | https://sr.ht/~alexwennerberg/flounder/ , https://github.com/alexwennerberg/flounder | A portal into the small web [1]. |

| App Instances | App Website | Source Code | Description |
|---|---|---|---|
| Friendica / Friendica #2 | https://friendi.ca | https://github.com/friendica/friendica , https://github.com/friendica/friendica/blob/master/INSTALL.txt | Welcome to the free social web. Friendica is a decentralised communications platform that integrates social communication. Our platform links to independent social projects and corporate services. Our mission is to free friends, family and colleagues from data-harvesting corporations; we aim for social communication to be free and open, while flowing between any provider as easily as email does. Friendica connects you effortlessly to a federated communications network of several thousand servers, with more than half a million user registrations. You can directly connect to anyone on Friendica, Mastodon, Diaspora, GnuSocial, Pleroma, or Hubzilla, regardless where each user profile is hosted. With Friendica, you can also fully interact with anyone on Twitter, post on Facebook and receive any content on Tumblr, Wordpress or RSS. Friendica allows you to integrate most things on the web via a range of addons such as ITTT, Buffer; you will be able to easily control your own data as you decide. |

| App Instances | App Website | Source Code | Description |
|---|---|---|---|
| Funkwhale / Funkwhale #2 | https://funkwhale.audio | https://dev.funkwhale.audio/funkwhale/funkwhale , https://docs.funkwhale.audio/installation/index.html | A social platform to enjoy and share music. / A self-hosted tribute to Grooveshark.com. |
| Gancio | https://gancio.org | https://framagit.org/les/gancio | A shared agenda for local communities with AP support. |
| Gath | https://gath.io/ | https://github.com/lowercasename/gathio | Self-destructing, shareable, no-registration event pages. |
| Glitch-soc | https://glitch-soc.github.io/docs | https://github.com/glitch-soc/mastodon | Mastodon Glitch Edition |
| gnusocial | https://gnusocial.network/ , https://gnu.io/social | https://notabug.org/diogo/gnu-social , https://notabug.org/diogo/gnu-social/src/master/INSTALL.md | The free/libre software social networking platform. |
| Go-Fed | | | Discussion about the suite of Golang ActivityPub libraries and tools. |
| go-littr | | https://github.com/mariusor/littr.go | A new attempt at the social link aggregator service. It is modelled after (old)Reddit, HackerNews, and Lobste.rs trying to combine the good parts of these services while mapping them on the foundation of an ActivityPub generic service. |
| gourami | | https://github.com/alexwennerberg/gourami | A decentralized social network for the small web, implemented in ActivityPub. This repository is archived and not maintained. Many of the ideas informing it have informed my new project, Flounder. |
| groundpolls | | https://github.com/Groundpolis/Groundpolis | A forever evolving, professional microblogging platform. Groundpolis is a Misskey based microblogging platform. |

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| Guppe | https://gup.pe/ | https://github.com/wmurphyrd/guppe | Social groups for the fediverse - making it easy to connect and meet new people based on shared interests without the manipulation of your attention to maximize ad revenue nor the walled garden lock-in of capitalist social media. |
| hackhackhack | | | |
| Hash2Pub | | | a fully-decentralised relay for global hashtag federation |
| Hometown | | https://github.com/hometown-fork/hometown | A light weight fork of Mastodon. This fork is based on the principle of: minimum code change for maximum user experience change. By our best understanding, our major changes are not wanted by the Mastodon project, hence maintaining this fork instead of trying to commit the changes to Mastodon. |
| honk | https://humungus.tedunangst.com/r/honk/f | https://humungus.tedunangst.com/r/honk/f | Take control of your honks and join the federation. An ActivityPub server with minimal setup and support costs. Spend more time using the software and less time operating it. |
| Hubzilla / Hubzilla #2 | https://hubzilla.org | https://framagit.org/hubzilla/core , https://framagit.org/hubzilla/core/blob/master/install/INSTALL.txt | Hubzilla is a general purpose communication server integrated with a web publishing system and a decentralised permission system. / An independent platform for sharing stuff online (publicly or privately). |

| App Instances | App Website | Source Code | Description |
|---|---|---|---|
| ImmerSpace | | https://github.com/immers-space/immers | ActivityPub server for immers.space - a decentralized virtual reality metaverse platform powered by Mozilla Hubs and activitypub-express. |
| Juick | | | |
| kanzaki | | https://github.com/KnzkDev/kanzaki [2)] | |
| kepi | | https://gitlab.com/marnanel/chapeau | A Django-based microblogging system, implemented in Python. It uses the ActivityPub protocol to communicate with other servers, and the Mastodon protocol to communicate with clients. / ActivityPub daemon in Django. |
| kibou | | https://git.cybre.club/kibouproject/kibou | Kibou is a federated social networking server. |
| koype | https://koype.net | | |
| kroeg | https://puckipedia.com/kroeg | https://git.puckipedia.com/kroeg | really flexible federated social media! |
| LearnAwesome | https://learnawesome.org/ | https://github.com/learn-awesome/learn | Awesome learning resources organized by topics, formats and difficulty. Optimal learning paths for any topic. |
| Lemmy | https://join.lemmy.ml/ | https://github.com/dessalines/lemmy | Lemmy is a link aggregator / reddit alternative, intended to work in the fediverse. |
| lotide / lotide #2 | | https://sr.ht/~vpzom/lotide | A federated forum / link aggregator using ActivityPub. |
| Lumen-AP-server | | https://notabug.org/tinyrabbit/lumen-ap-server | Lumen-based ActivityPub Server |

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| Mastodon / Mastodon #2 | https://joinmastodon.org | https://github.com/tootsuite/mastodon , https://github.com/tootsuite/documentation#running-mastodon | Social networking, back in your hands. / A free, open-source social network server based on ActivityPub where users can follow friends and discover new ones. On Mastodon, users can publish anything they want: links, pictures, text, video. All Mastodon servers are interoperable as a federated network (users on one server can seamlessly communicate with users from another one, including non-Mastodon software that implements ActivityPub)! |
| Mastotool | | https://github.com/muesli/mastotool | A collection of command-line tools to work with your Mastodon account. |
| Matrix (Conduit) | | | |
| Matrix (Construct) | | | |
| Matrix (Dendrite) | | | |
| Matrix (Synapse) | https://matrix.org | https://github.com/matrix-org/synapse#synapse-installation | |
| microblogpub | https://microblog.pub | https://github.com/tsileo/microblog.pub , https://github.com/tsileo/microblog.pub#installation | A self-hosted, single-user, ActivityPub powered microblog. |
| microstatus | | https://github.com/Arkanosis/microstatus | A lightweight Mastodon- and GNU social-compatible OStatus and ActivityPub server implementation. |

| App Instances | App Website | Source Code | Description |
|---|---|---|---|
| Misskey / Misskey #2 / Misskey #3 | https://misskey.io , https://joinmisskey.github.io/ | https://github.com/syuilo/misskey , https://github.com/syuilo/misskey/blob/develop/docs/setup.en.md | A forever evolving, interplanetary microblogging platform. / A decentralized microblogging platform born on Earth. Since it exists within the Fediverse (a universe where various social media platforms are organized), it is mutually linked with other social media platforms. Why don't you take a short break from the hustle and bustle of the city, and dive into a new Internet? |
| mistpark | | | |
| Mobilizon / Mobilizon #2 | https://joinmobilizon.org/en | https://framagit.org/framasoft/mobilizon | Together, we go further. Mobilizon is a tool that helps you find, create and organise events. You can also create a page for your group where the members will be able to organise together. |
| MoonTree | | https://github.com/Faleidel/moontreeproject | Link aggregator like reddit or hackernews. |
| n/a | | | |
| Nextcloud-Social | https://apps.nextcloud.com/apps/social | https://github.com/nextcloud/social | Nextcloud becomes part of the federated social networks! |
| Olki | https://olki.loria.fr/platform | https://framagit.org/synalp/olki/olki | Self-hosted science: corpora, peer reviews, alerts, all in one simple gateway to the fediverse for a science that is more open to the public. |
| openEngiadina | | | Create, share and use open local knowledge. |
| Osada | https://zotlabs.com/osada , https://framagit.org/macgirvin/osada/blob/master/install/INSTALL.txt | | |
| ostatus | | | |

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|---|---|---|---|
| p3k | https://indieweb.org/p3k | | |
| PeerTube / PeerTube #2 / PeerTube #3 | https://joinpeertube.org/en , https://joinpeertube.org | https://github.com/Chocobozzz/PeerTube , https://docs.joinpeertube.org/#/install-any-os | Take back control of your videos. / Be part of a network of multiple small federated, interoperable video hosting providers. Follow video creators and create videos. No vendor lock-in. All on a platform that is community-owned and ad-free. |
| Pherephone | | | An activityPub server that reblogs all the statuses of certain actors. |
| Pixelfed / Pixelfed #2 | https://pixelfed.org | https://github.com/dansup/pixelfed , https://github.com/dansup/pixelfed#installation | Photo sharing. For everyone. / A free and ethical photo sharing platform, powered by ActivityPub federation. |
| Pleroma / Pleroma #2 | https://pleroma.social | https://git.pleroma.social/pleroma , https://git.pleroma.social/pleroma/pleroma#installation | Pleroma is a free, federated social networking server built on open protocols (ActivityPub and OStatus). It's ressource usage is lightweight (can run on a Raspberry Pi) and is easy to deploy (only requires PostgreSQL for releases). |
| Plume / Plume #2 | https://joinplu.me/ | https://github.com/Plume-org/Plume , https://docs.joinplu.me/installation/ | A federated blogging application. |
| Prismo | https://gitlab.com/mbajur/prismo | https://gitlab.com/mbajur/prismo#installing | |
| Prosody | https://prosody.im | https://prosody.im/download/start | |
| Pubcast | https://pubcast.pub/ | https://github.com/pubcast/pubcast | Distributed/federated podcasting platform based on ActivityPub. |
| pubgate | | https://github.com/autogestion/pubgate | Asyncronous Lightweight ActivityPub API / CMS |
| RavenVale | | https://git.lubar.me/lubar-local/ravenvale | Federating guild website. |
| read.as | https://read.as | https://github.com/writeas/Read.as | |

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|---|---|---|---|
| Readlebee | | https://gitlab.com/Alamantus/Readlebee | An attempt at a viable alternative to Goodreads. |
| red | | | |
| redmatrix | | | |
| redaktor.me | | | The multimedia CMS for the Fediverse – redaktor will be a web content management system to setup your social connected website in minutes. On your own server. redaktor helps you with telling your stories. |
| reel2bits | https://reel2bits.org | https://github.com/rhaamo/reel2bits | reel2bits is a self-hosted Soundtracks and Podcasts sharing, with ActivityPub federation. |
| Rustodon | | https://github.com/rustodon/rustodon | Rustodon is an Mastodon-compatible federated social microblogging server. It utilizes ActivityPub to federate with a constellation of other servers, connecting their communities with yours. |
| SemApps | http://semapps.org/ | https://github.com/assemblee-virtuelle/semapps | An open source project which aims to ease data storage and filtering. |
| SkoHub | https://skohub.io/ | https://github.com/hbz/skohub-pubsub | SkoHub – Simple Knowledge Organization Hub |
| Smilodon | | https://source.puri.sm/liberty/smilodon | A complementary fork of Mastodon, focusing on opt-in public spaces. |
| Smithereen | http://smithereen.software/ | https://github.com/grishka/Smithereen | Federated, ActivityPub-compatible social network with friends, walls, and groups. |
| Socialhome | https://socialhome.network/ | https://git.feneas.org/socialhome/socialhome , https://socialhome.readthedocs.io/en/latest/installation.html | A federated social home. |

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|---|---|---|---|
| Spritely | https://spritelyproject.org/ | https://gitlab.com/spritely | A distributed social network written in Racket. This is a collection of several of its projects. |
| Tavern | | https://gitlab.com/ngerakines/tavern | A minimalistic Activity Pub server. Think mastodon, but smaller and with fewer features. This category is for the discussion of Tavern, an open source activitypub server written in Golang. |
| tsundere | | | |
| unknown | | | |
| Vervis | https://forge.angeley.es/browse | https://code.angeley.es/browse , https://dev.angeley.es/s/fr33domlover/r/vervis/s | A work-in-progress federated project and repository hosting and collaboration platform. Its development is meant to help form the ForgeFed specification for project hosting platform federation, and hopefully get existing platforms (such as Gitea, Gogs, GitLab CE, etc.) to support it. |
| WordPress / WordPress #2 | https://wordpress.org | https://wordpress.org/download/ | |
| WriteFreely / WriteFreely #2 | https://writefreely.org/ | https://github.com/writeas/writefreely , https://writefreely.org/start | A simple, federated writing platform. |
| Zap | https://zotlabs.com/zap | https://codeberg.org/zot/zap | Zap is a webserver app which implements a decentralised social network with more privacy and less drama. |

# Protocols

1. activitypub

2. matrix
3. ostatus
4. diaspora
5. dfrn
6. zot
7. xmpp
8. webmention
9. inbound
10. outbound
11. litepub
12. websub
13. micropub
14. microformats
15. smtp

## Instances

https://the-federation.info/#projects

https://fediverse.network/

## References

Comparison_of_software_and_protocols_for_distributed_social_networking

https://socialhub.activitypub.rocks/c/software

https://fediverse.party/en/miscellaneous

1)

https://neustadt.fr/essays/the-small-web/

2)

no source code available yet

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