

Bluesky & ATProto

The future of social media for the open Internet



\$ whoami

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Snorremd

\$ tldr Bluesky

The screenshot displays the Bluesky social media interface. On the left is a dark sidebar with navigation options: Home, Search, Notifications, Chat, Feeds, Lists, Profile, and Settings. A blue 'New Post' button is at the bottom of the sidebar. The main content area shows a feed of posts. The top post is a reply by Tom Sherman (@tom.frontpage.team) to Bluesky Elder, discussing a 'Community Data Server (CDS)' that wraps up a repo, feed, and labeller into a single service. The second post is by dan (@danabra.mov), also replying to Bluesky Elder, discussing the distinction between ActivityPub and AT Protocol. Below the text is a diagram with two parts: the left part shows 'application hosting' boxes connected to 'application' boxes, and the right part shows 'hosting' boxes connected to 'application' boxes. The right sidebar contains a search bar and a 'Following' list with categories like Mutuals, Birds!, Software development, and Norwegian languages. At the bottom of the right sidebar are links for Feedback, Privacy, Terms, and Help.

2019 @ Twitter



2022 - Invite only



Identity

DID - Decentralized Identifier

did:plc:example:123456789abcdefghi

did:web:yourdomain.tld

DID PLC Directory

<https://web.plc.directory>

Signing keys

Aliases

Services

Handles

@myname.bsky.social

@biden.whitehouse.gov

@snorre.io

Data

Lexicons

Record types

HTTP endpoints

Event stream

Records

```
1 {
2   "lexicon": 1,
3   "id": "app.bsky.feed.like",
4   "defs": {
5     "main": {
6       "type": "record",
7       "description": "Record declaring a 'like' of a piece of subject content.",
8       "key": "tid",
9       "record": {
10        "type": "object",
11        "required": ["subject", "createdAt"],
12        "properties": {
13          "subject": { "type": "ref", "ref": "com.atproto.repo.strongRef" },
14          "createdAt": { "type": "string", "format": "datetime" }
15        }
16      }
17    }
18  }
19 }
```

Data Model

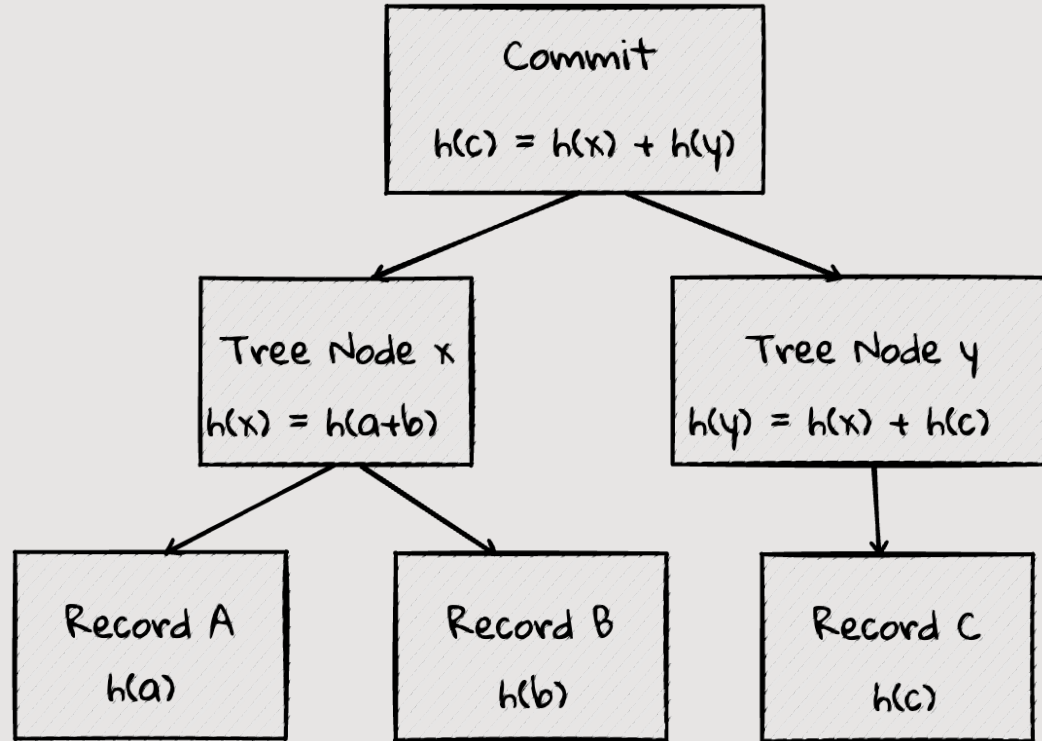
CID (Content ID)

CBOR

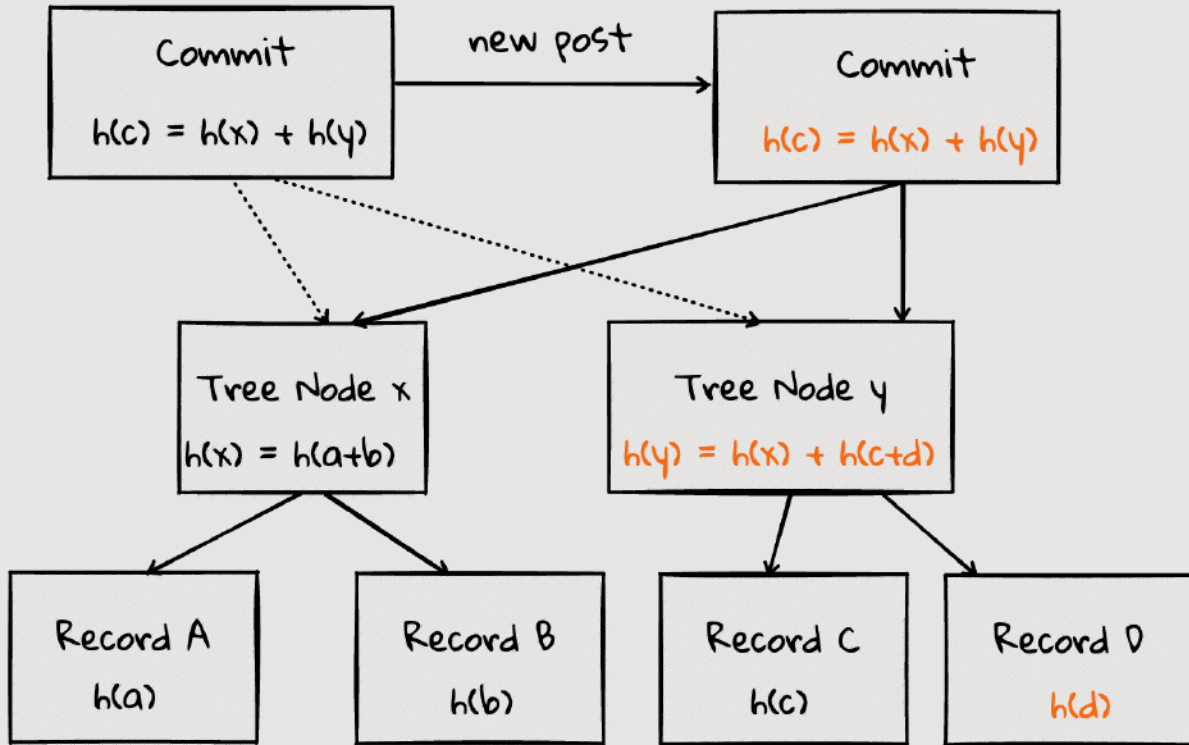
JSON

IPLD CAR

User Repository (MST)

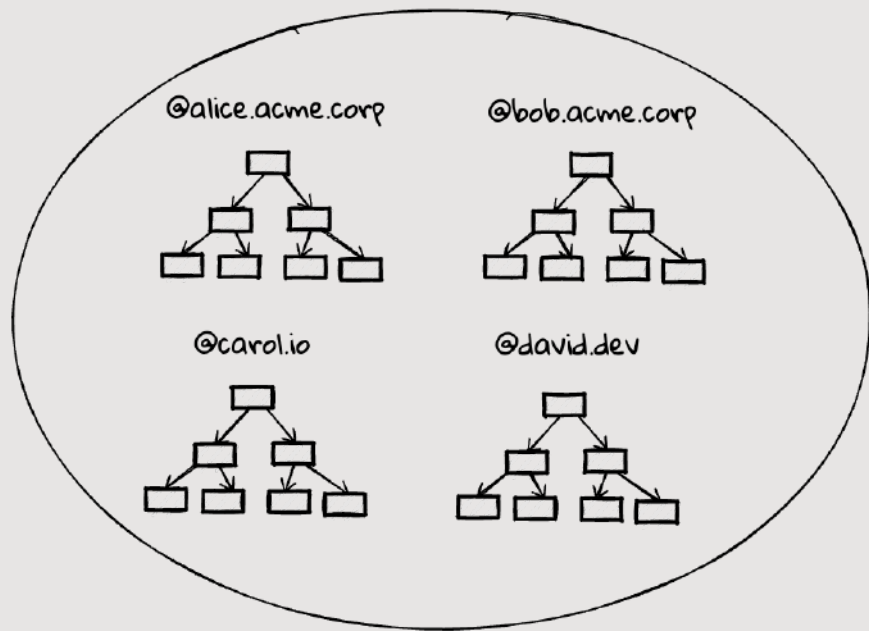


User Repository (MST)

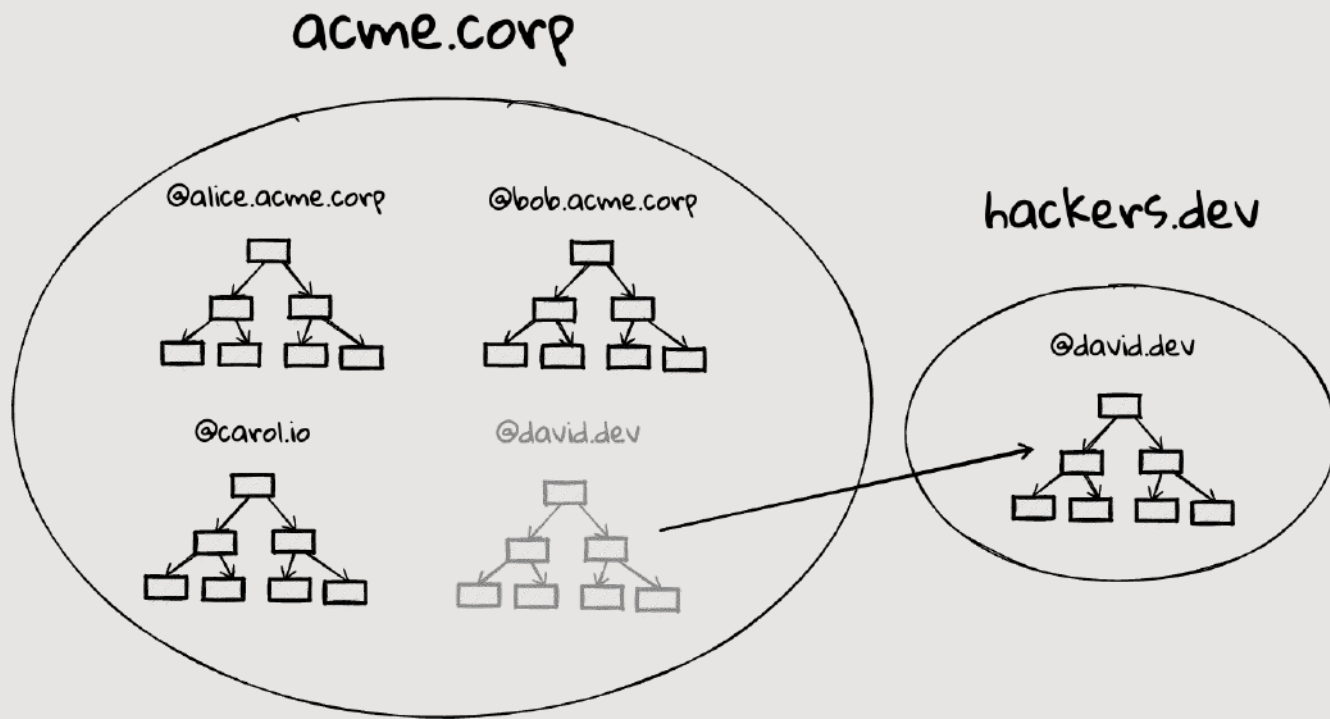


Personal Data Server

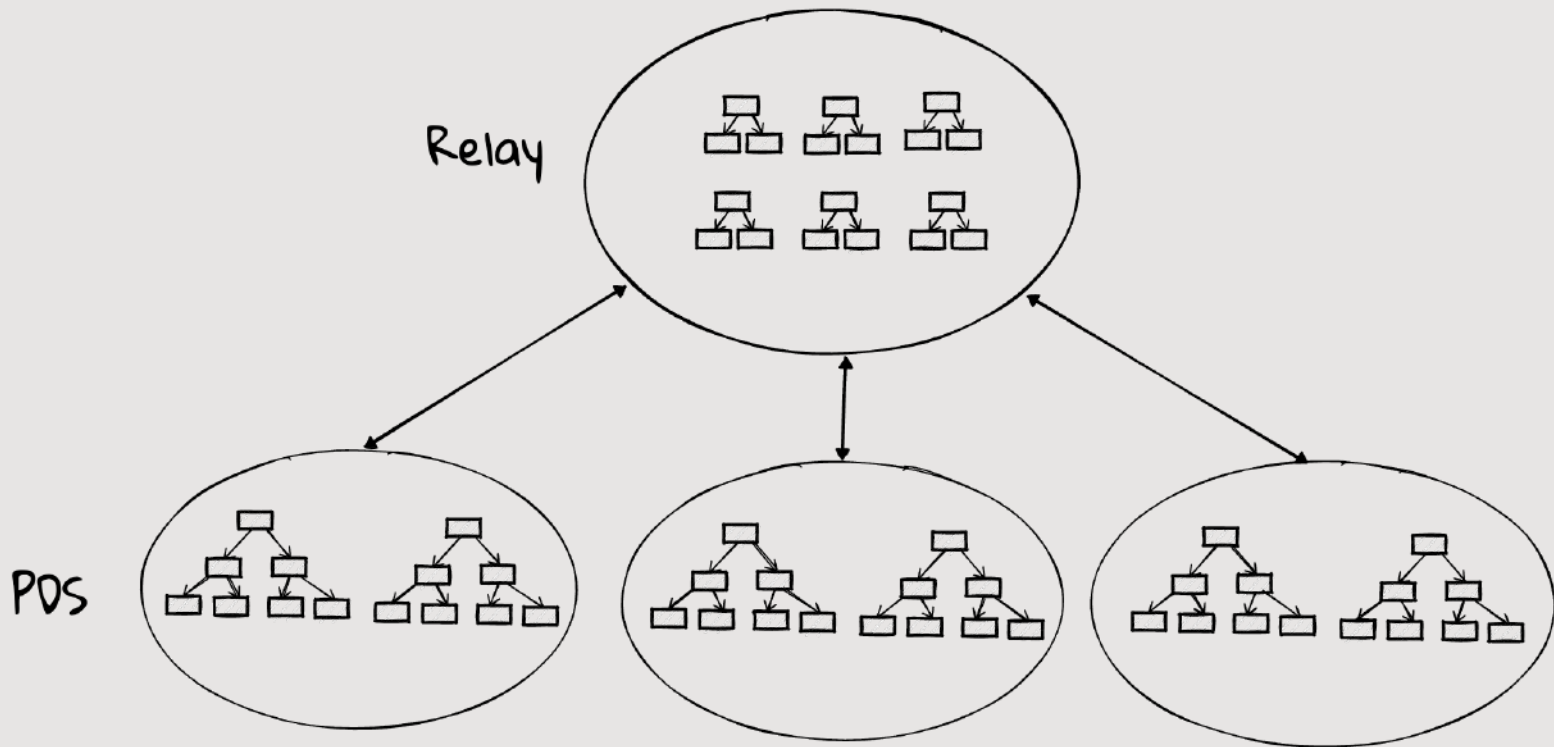
acme.corp



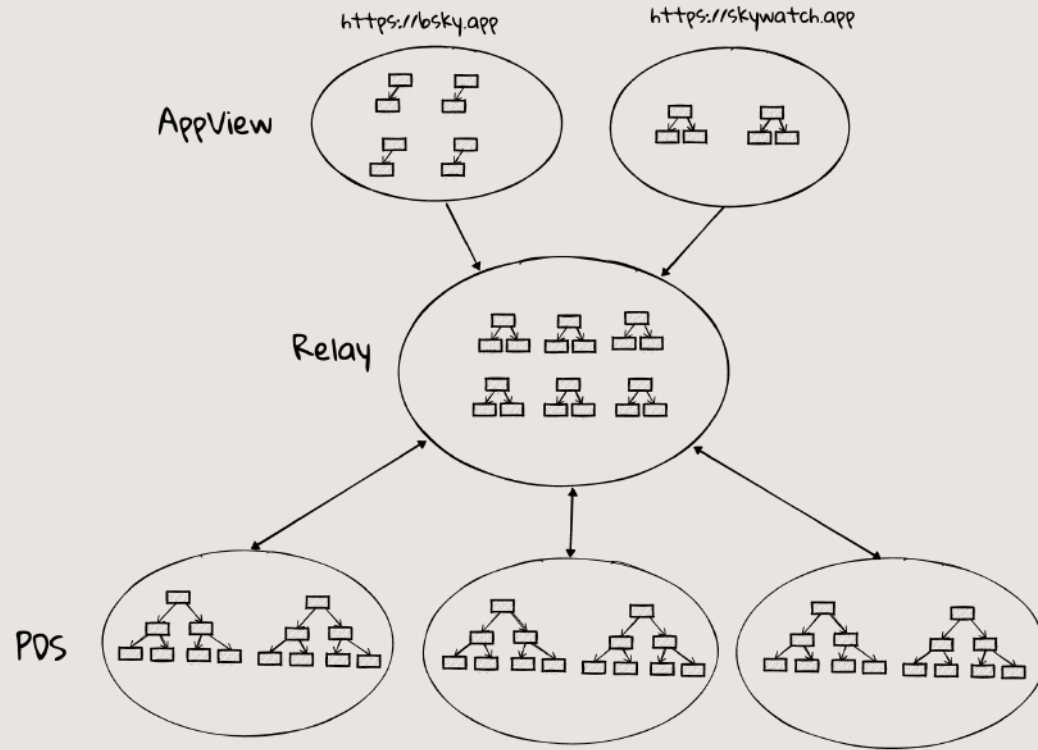
Personal Data Server



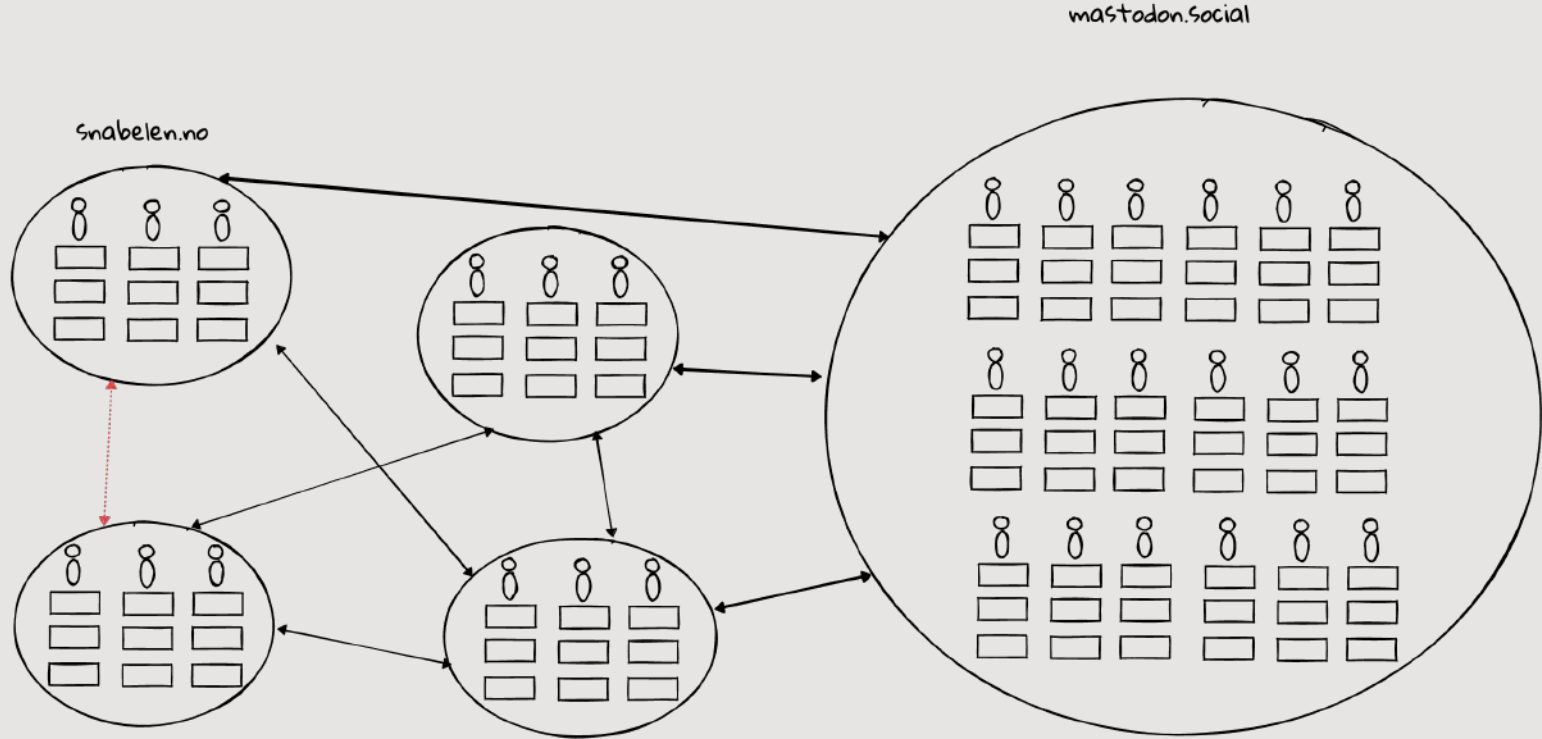
Relays



AppView

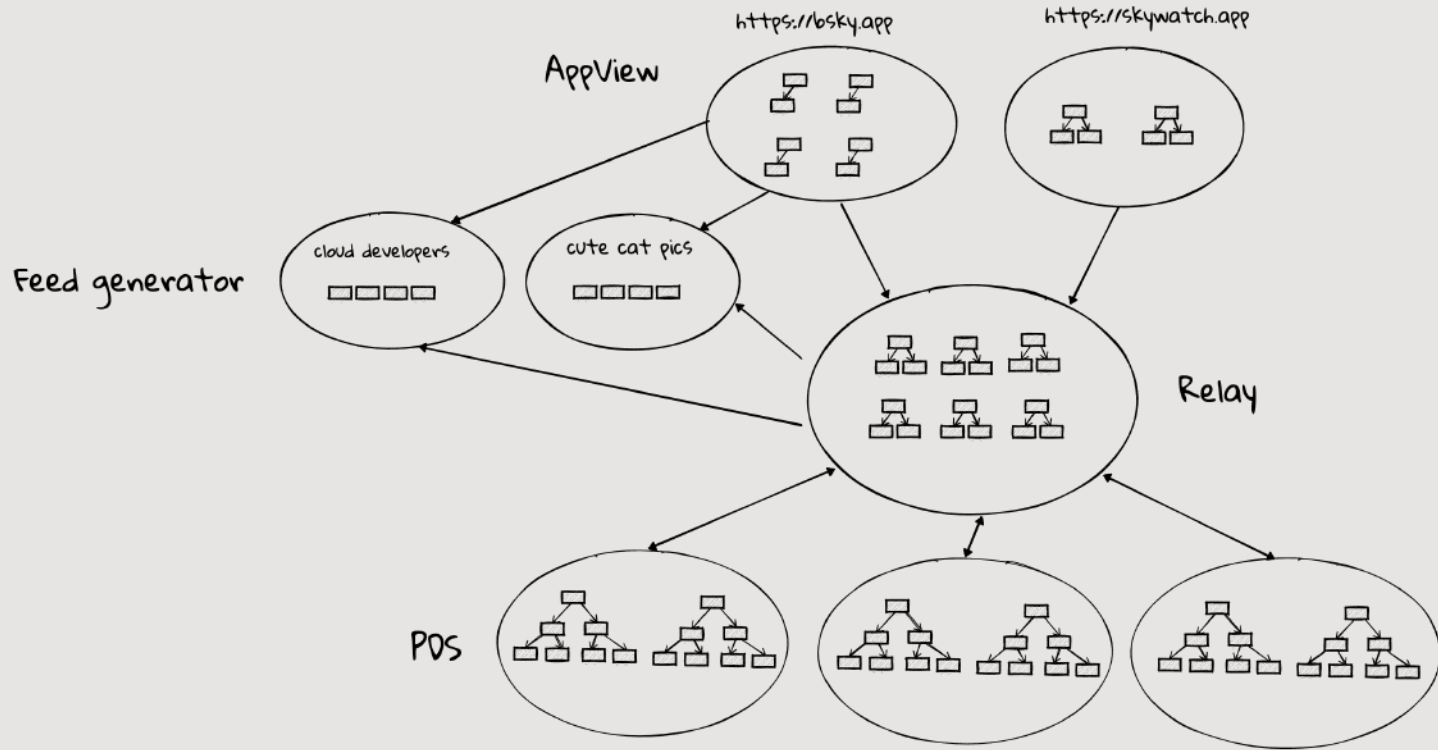


ActivityPub



"The algorithm"

Feed generators



Endless app ideas

[frontpage.fyi](#) - Hacker News

[smokesignal.events](#) - Meetup

[whtwnd.com](#) - Blog posts

Your cool app idea!

Not covered

Moderation

Bridges

Bots

Thank you!