

DatDot

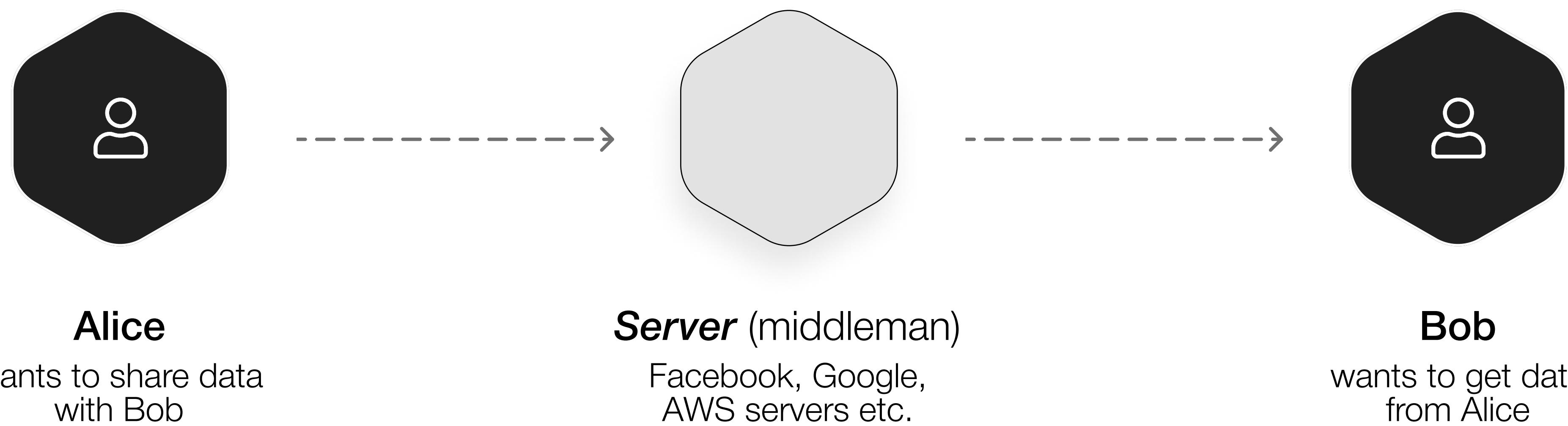
own your data

Why DatDot?

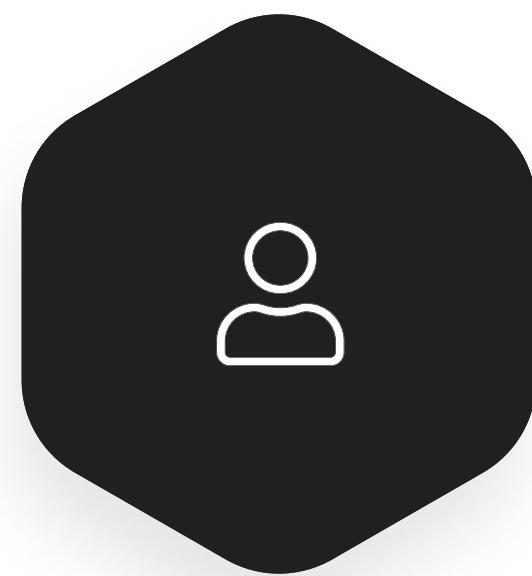
“This is a story about the thing Big tech fears the most: technology operated by and for the people who use it.”

- Cory Doctorow, The internet Con

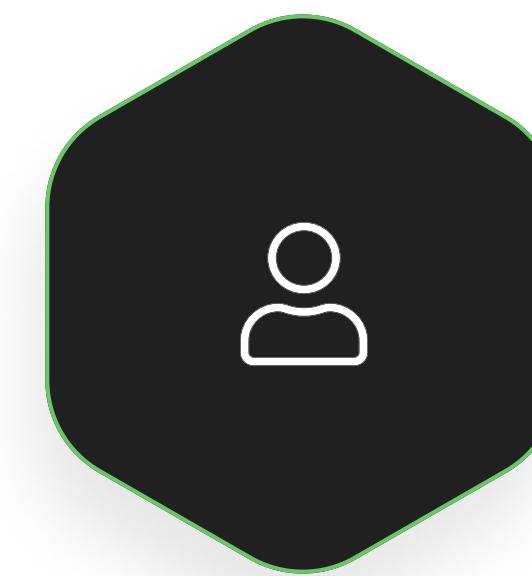
Web2 communication



P2P direct communication

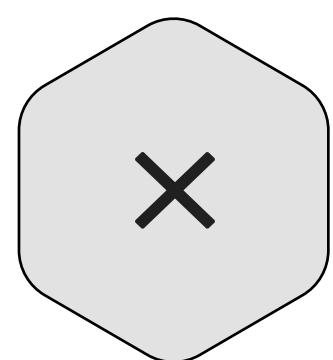


Alice



Bob

What if Alice and Bob
could send data to each other without the middle man?



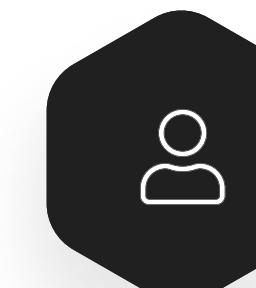
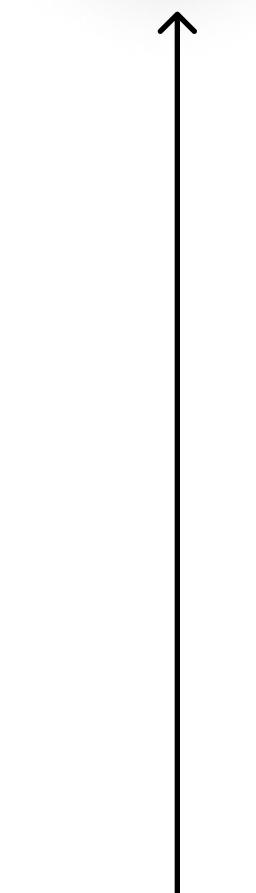
Server

P2P data replication



Alice

Stores data as an append only log,
then shares address with Bob



Bob

Can subscribe to Alice's data
and get notified when Alice makes any update
and can replicate Alice's data to his device

How does it work?

Alice

Uses P2P protocol to connect
to other peers

Bob

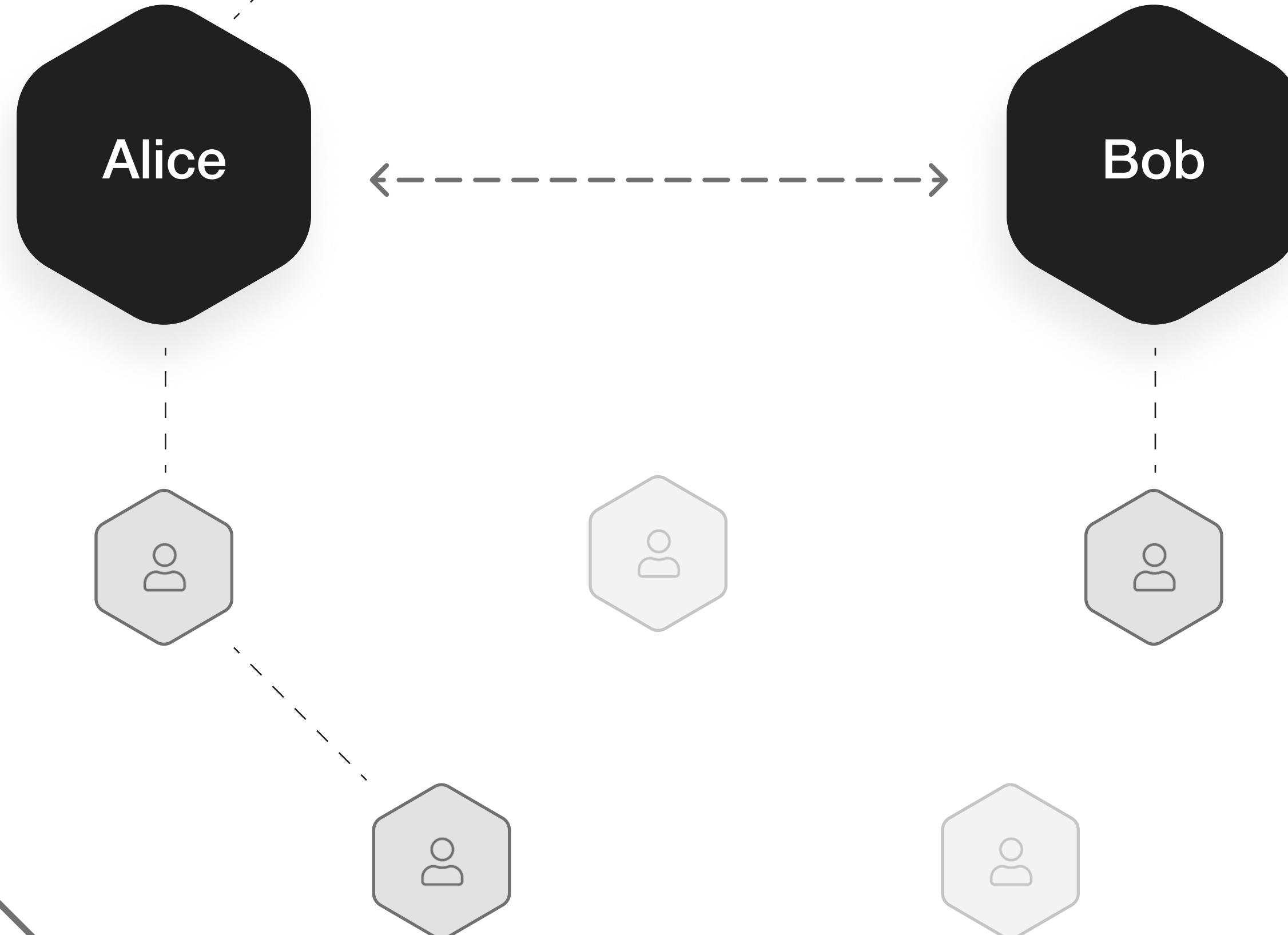
Also uses P2P protocol.
Can connect to the network to find Alice's data

Centralized vs P2P system

So, what is the core difference between
Peer-to-peer and Centralized system

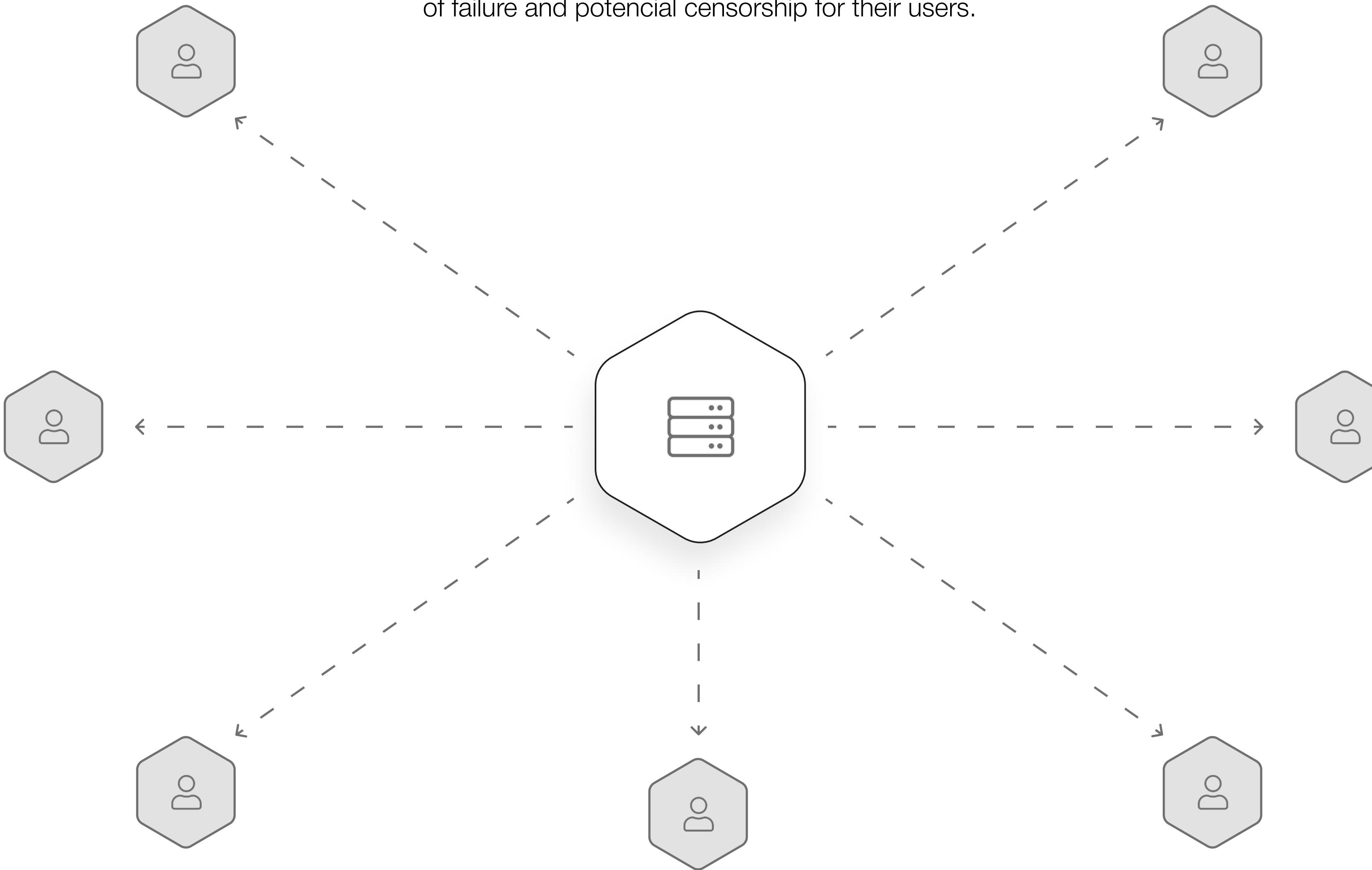
Peer-to-Peer

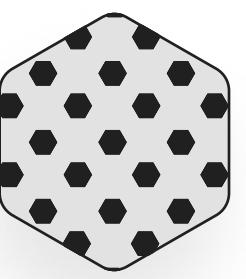
puts peers in full control over their data
and makes the servers obsolete



Centralized

The more data flows through the servers, the more costs do app creators have. Centralized apps represent a single point of failure and potential censorship for their users.

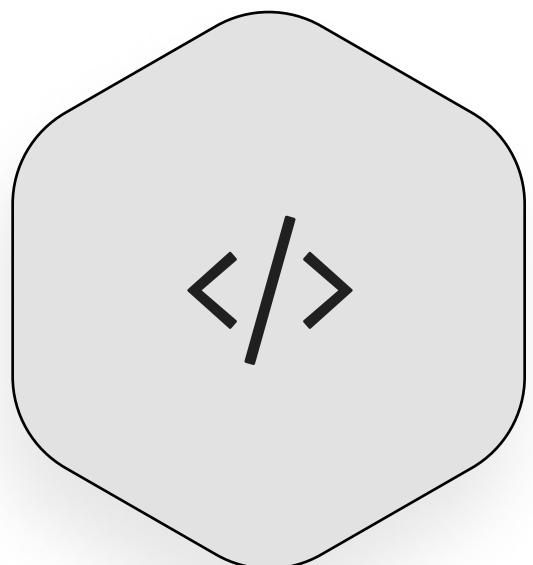




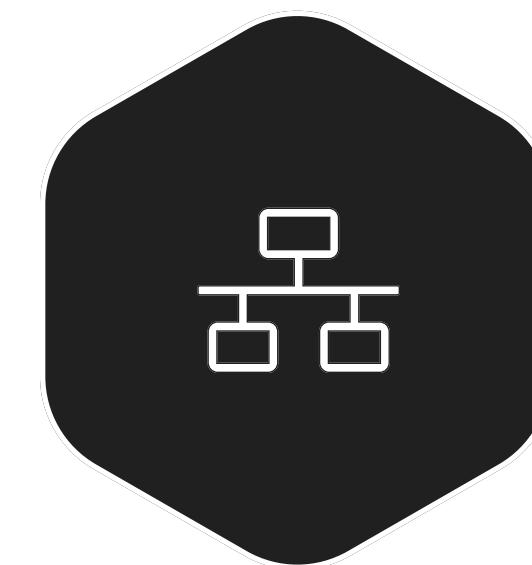
DatDot P2P developer toolset



User Data Vault
own your data



In-browser Editor

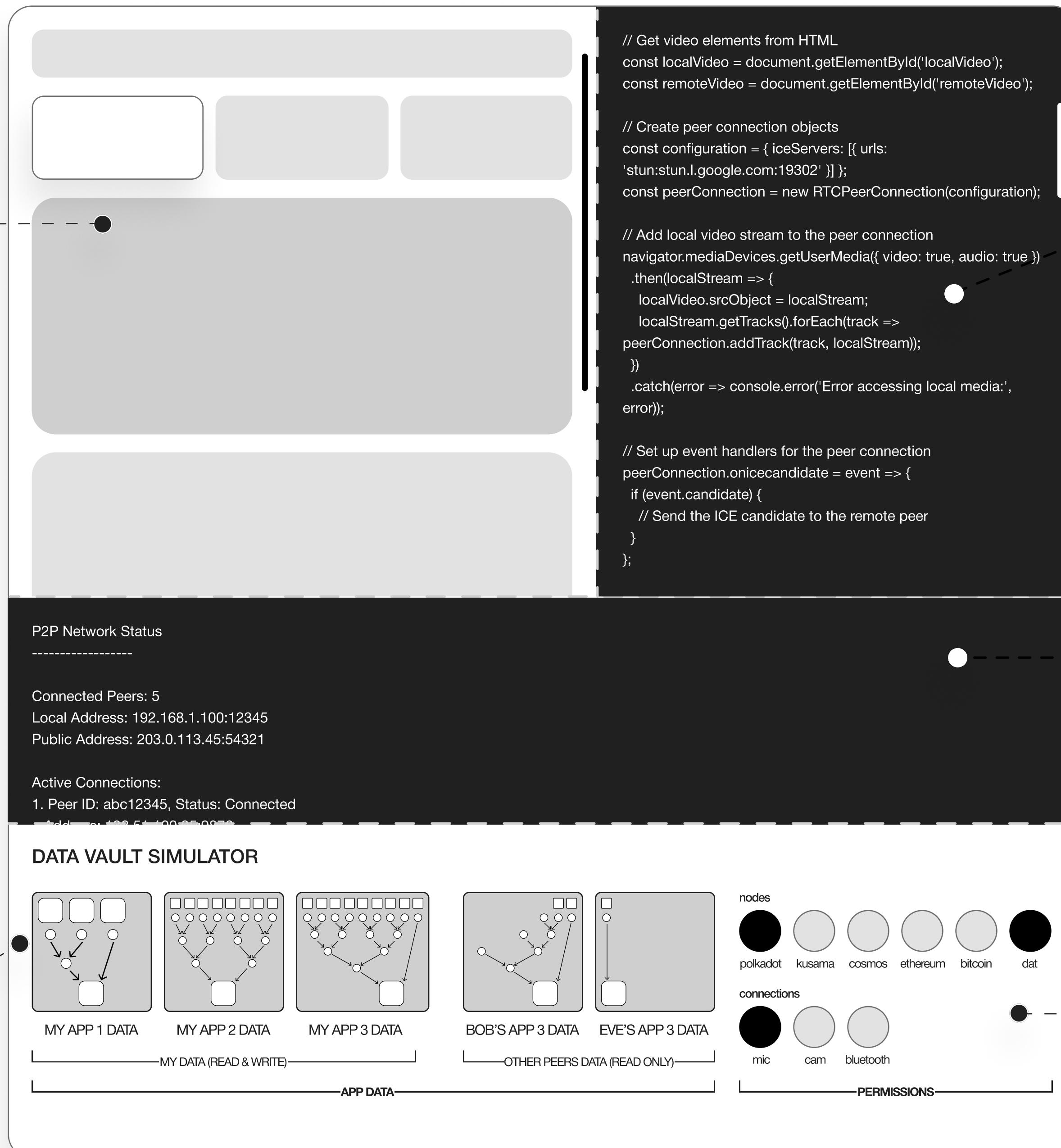


P2P Hosting Network

In-browser editor

APP PREVIEW

Developers can design the app ui and test the functionality



This enables all app's data being stored on user's devices

CODE

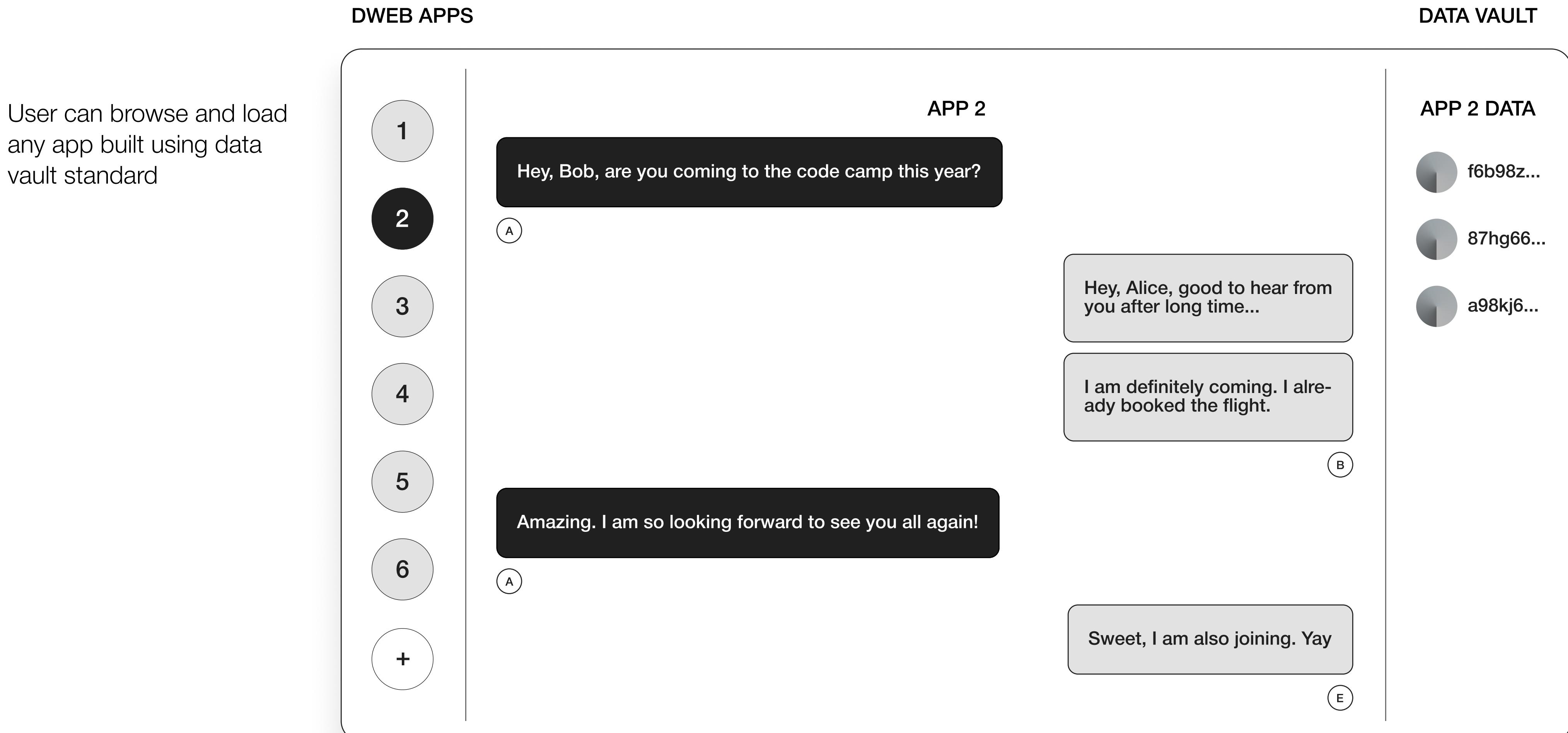
Developer uses data vault standard and P2P and blockchain APIs to build apps that don't require a server

Console

Terminal with logs for debugging

Developer can wire up the app to use different decentralized services i.e. blockchain, p2p networks etc.

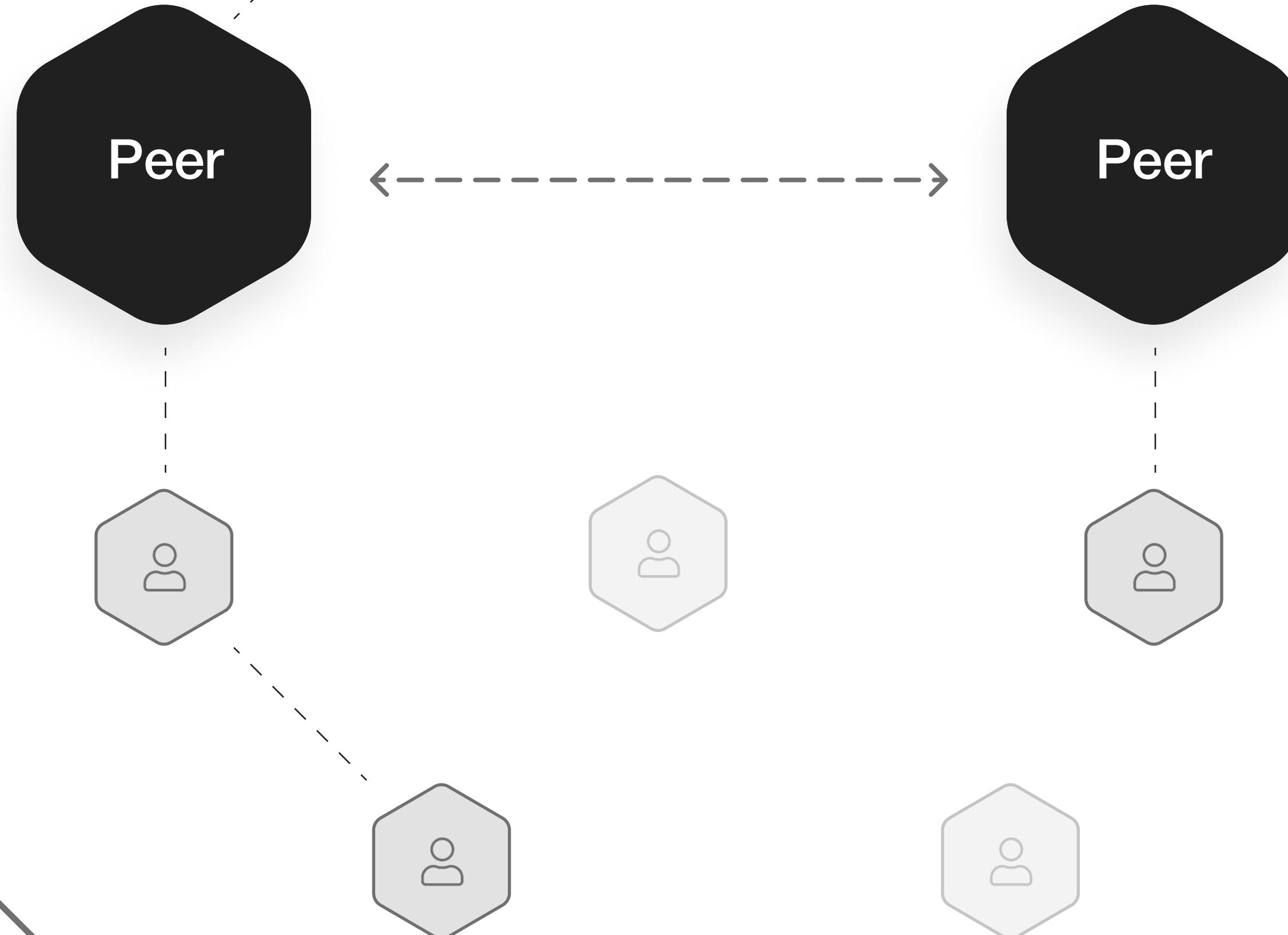
Data vault



- Files and folders created in APP2 are stored on user's computer, instead of APP's server
- All users store data on their computer
- If any user is offline, they use p2p hosting network to make sure their data is always available to other users

P2P hosting network

ensuring data availability for the p2p network



Why do we need DatDot hosting network?

When Alice is offline, she can find seeders who can seed data on her behalf. DatDot network pairs customers like Alice to seeders who offer their service and their storage to the network. Seeders' job is to store the data on their devices and serve it to the interested readers.

Marketplace for p2p hosting



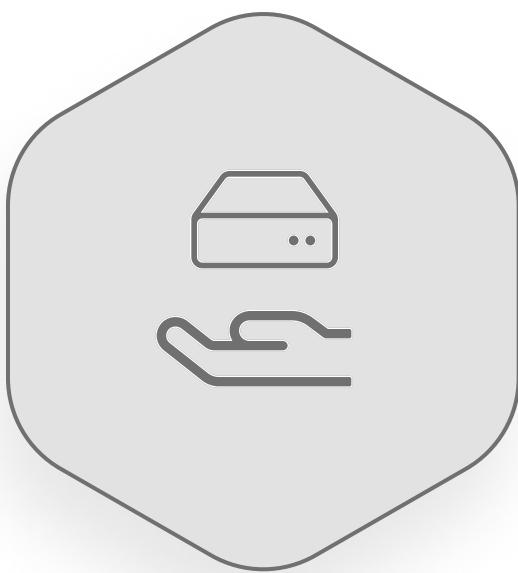
Sponsor

pays for having more seeders and data availability when they are offline

Marketplace for p2p hosting



Sponsor



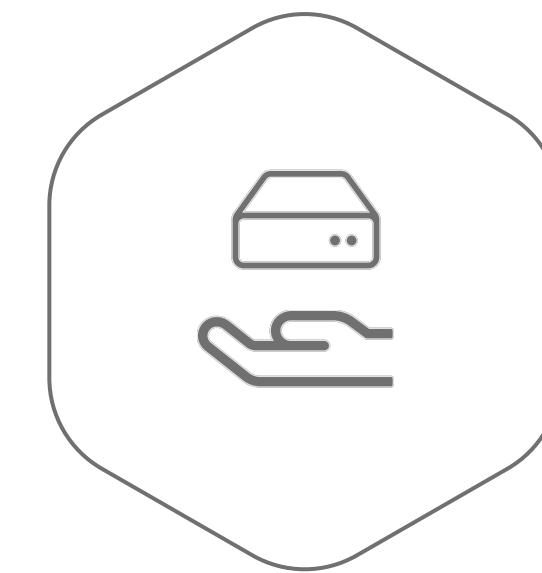
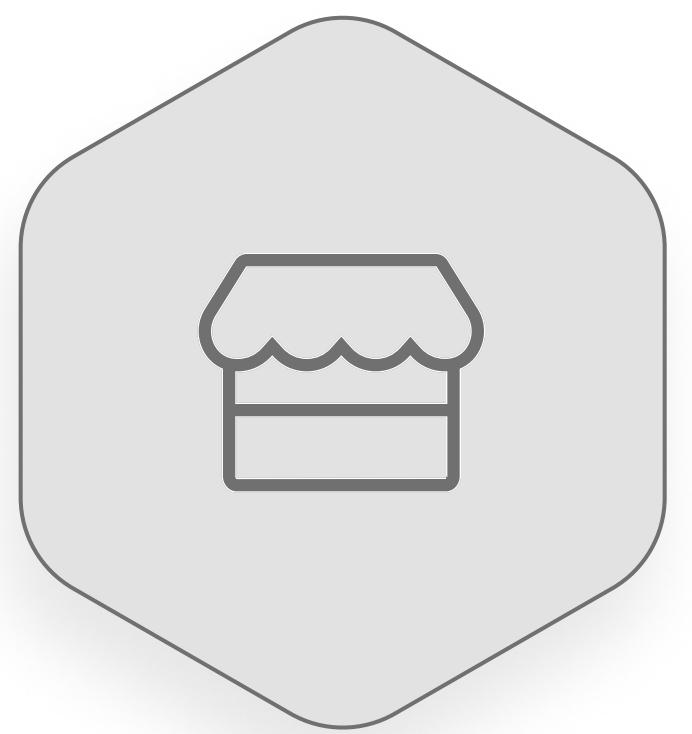
Seeders

get compensated for storing data on their devices and serving it to interested readers

Marketplace for p2p hosting



Sponsor



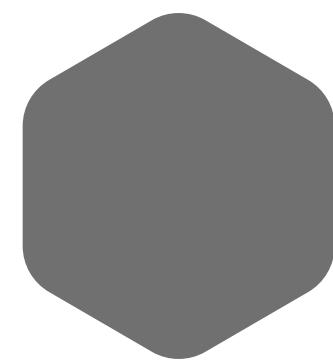
Seeders

DatDot Network

- Connects sponsors with seeders
- Monitors the work of the seeders
- Compensated seeders for their work

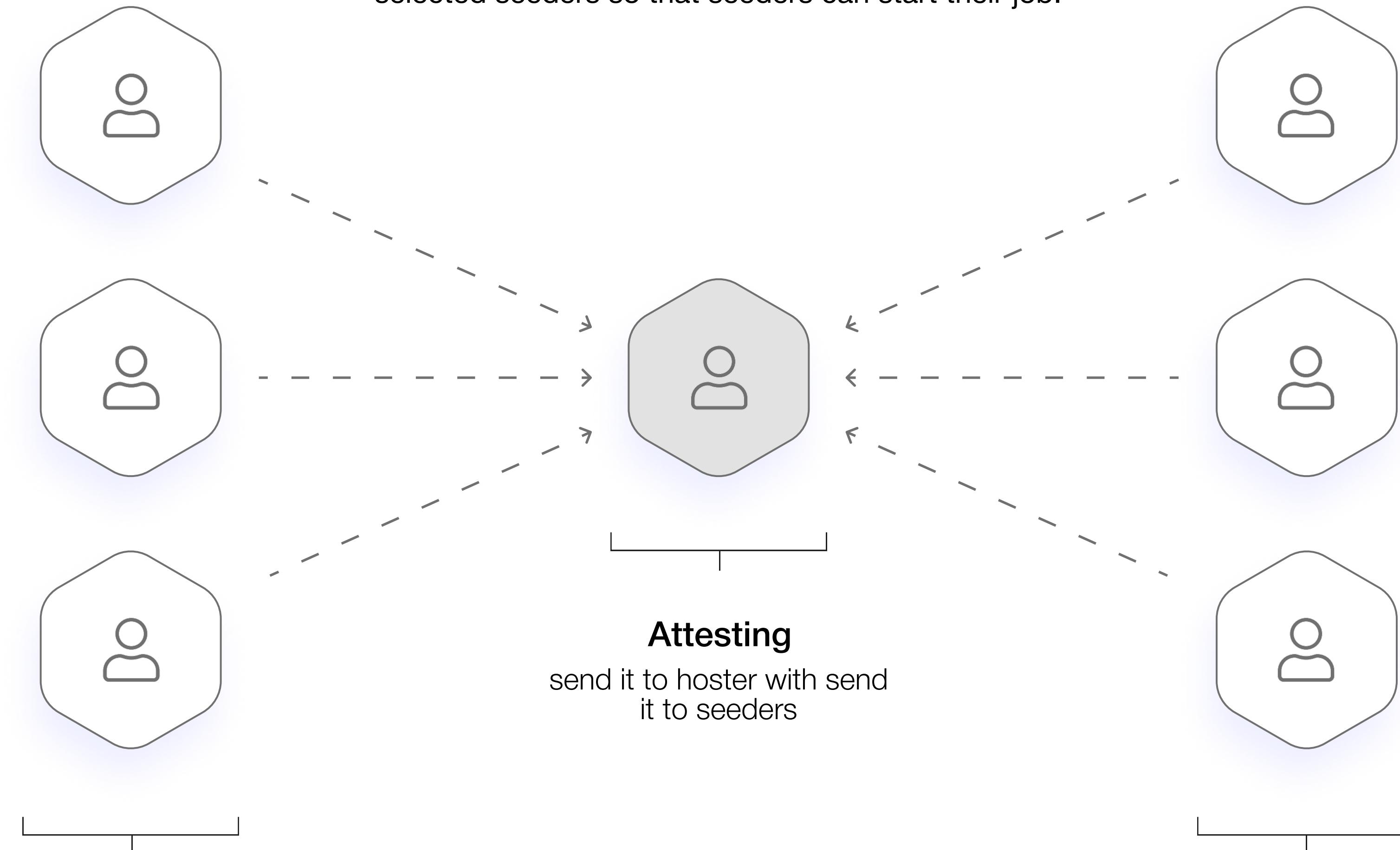
DatDot hosting network processes

How do processes in P2P hosting network work?



Hosting setup process

Sponsor initiates the seeding setup process and the network selects peers to encode, attest and finally get the data to the selected seeders so that seeders can start their job.



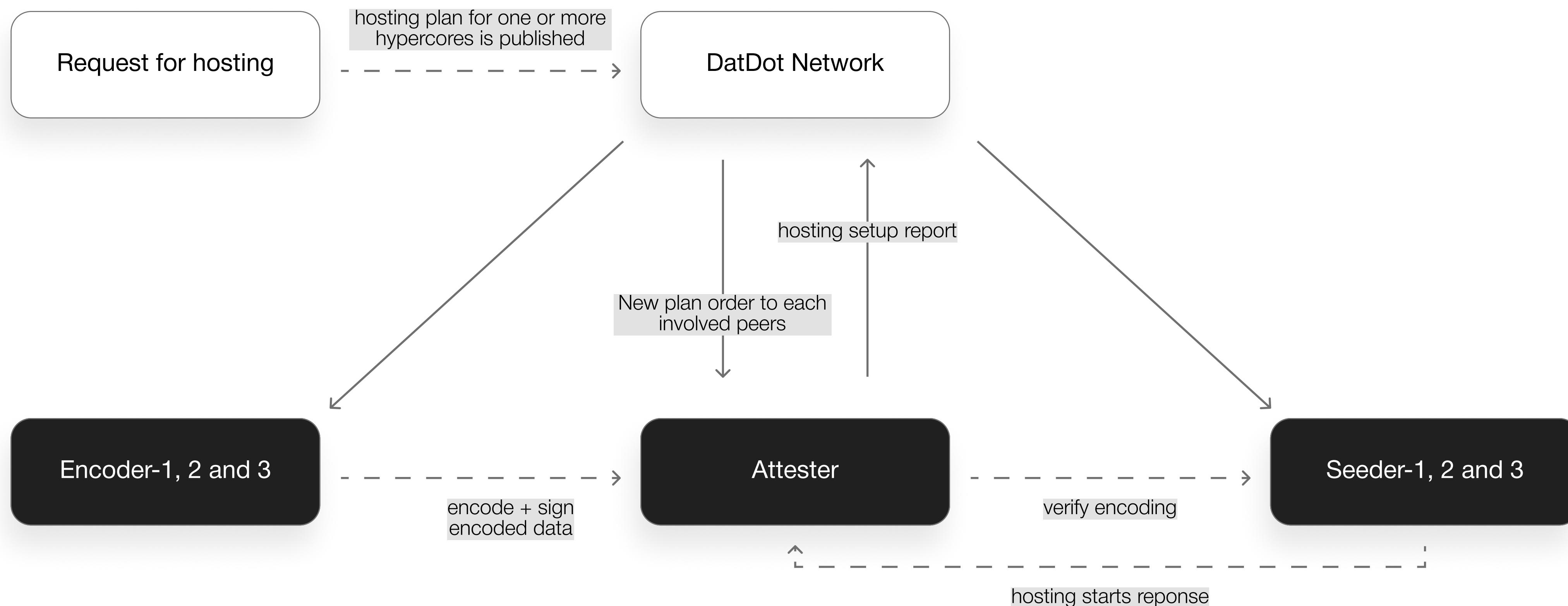
Encoding

compress and sign
compress data

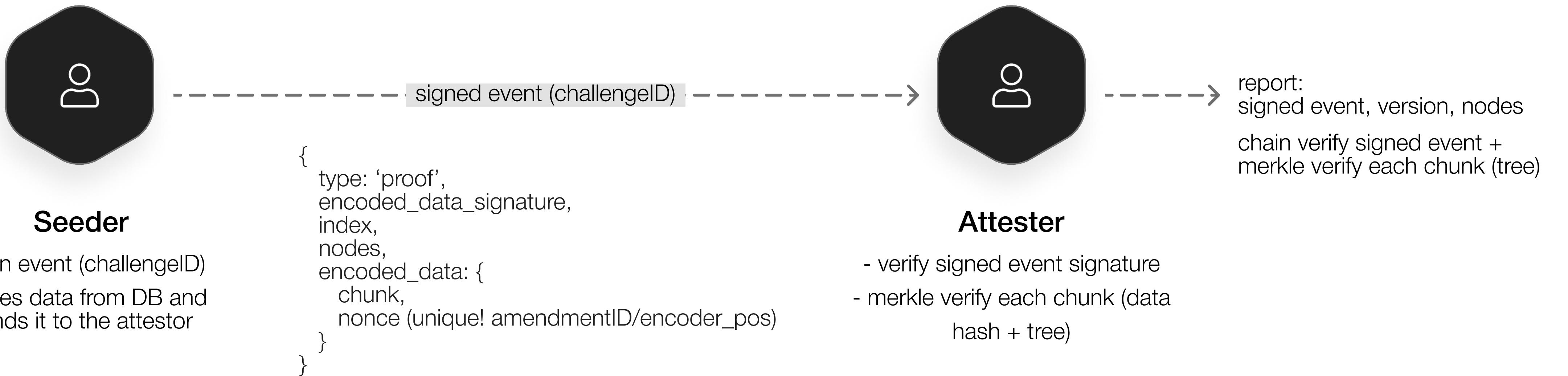
Seeding

store compressed data and
serve it on request

Hosting setup process



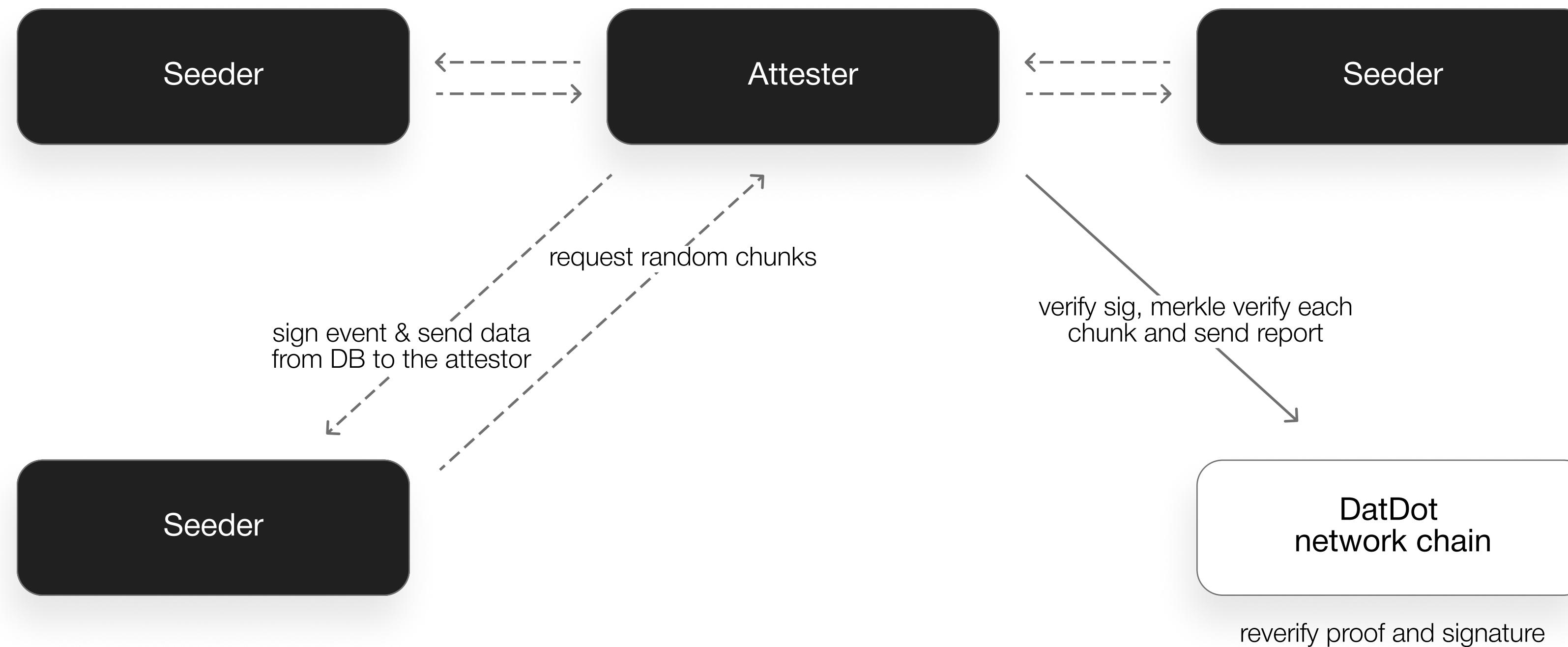
"Proof of storage" attestation



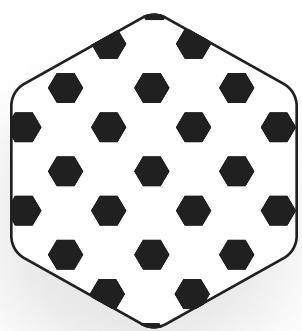
"Proof of performance" attestation



"Proof of performance" attestation



Thank You!!



DatDot

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