
KIN

AI ❤️ Self
Sovereign Data

Volodia

Principal Full-Stack Trust Builder @ Kin

- Ukrainian based in Berlin
- wrote the first line of code in 1995
- 22 years in Software
- 10 years in identity
- 5 years in web3 and decentralization movement
- 4 years in sovereign data and privacy
- building Kin as the private and privacy-first AI

Youtube | Medium | Peertube | Yakihonne

Values

Individual freedom

Delf-development and constant improvement

Democratizing access to AI and Knowledge

Property right

Privacy right

AI challenges

Computation power

Electricity

GPU and accelerators

AI challenges - Data

Hunger

Quality

Ownership

Privacy

Fair reward

Majority of data is closed

Locked in a platform

Locked in people heads

Hard, Soft, and Meta Data

You own different kind of data

- Hard data: facts and data points
- Soft data: values, feelings, thoughts, ideas
- Meta data: data about data, analytics

More about Soft data

Big Data Chaos

Data where you lost yourself

- Common for Big Enterprise
- Big volume of data point
- Require data magicians
- More about platforms around you

Small data

Data you **care about**

Human and brain-friendly data

Easy to mean and digest

Easy to make decisions

More about you

Revolution of small data and personal AI

Data ownership

Web2 - Soviet union like state of data ownership

Web3 - give ownership back

Web5 - give privacy and selective sharing to ownership

learn more about webX

Self sovereign principles

Foundational needs:

- Existence — exist in real life
- Control — control their identities.
- Access — access to their data
- Persistence - must be long-lived.

Self sovereign principles

Open protocol and technologies:

- Transparency - Systems and algorithms must be transparent.
- Portability - identity must be transportable
- Interoperability — Identities should be as widely usable as possible.

Self sovereign principles

Privacy and Security:

- Consent - Users must agree to the use of their identity.
- Minimization - Disclosure of claims must be minimized
- Protection — The rights of users must be protected

Web 5

- WEB3 + WEB2
- SSI on steroids
- DIDs (identity) + DWNs (data)

DID

- Dezentralized Identifier
- Distribute a public key in a agnostic way
- crypto-based verifiable identifier
- autonomous

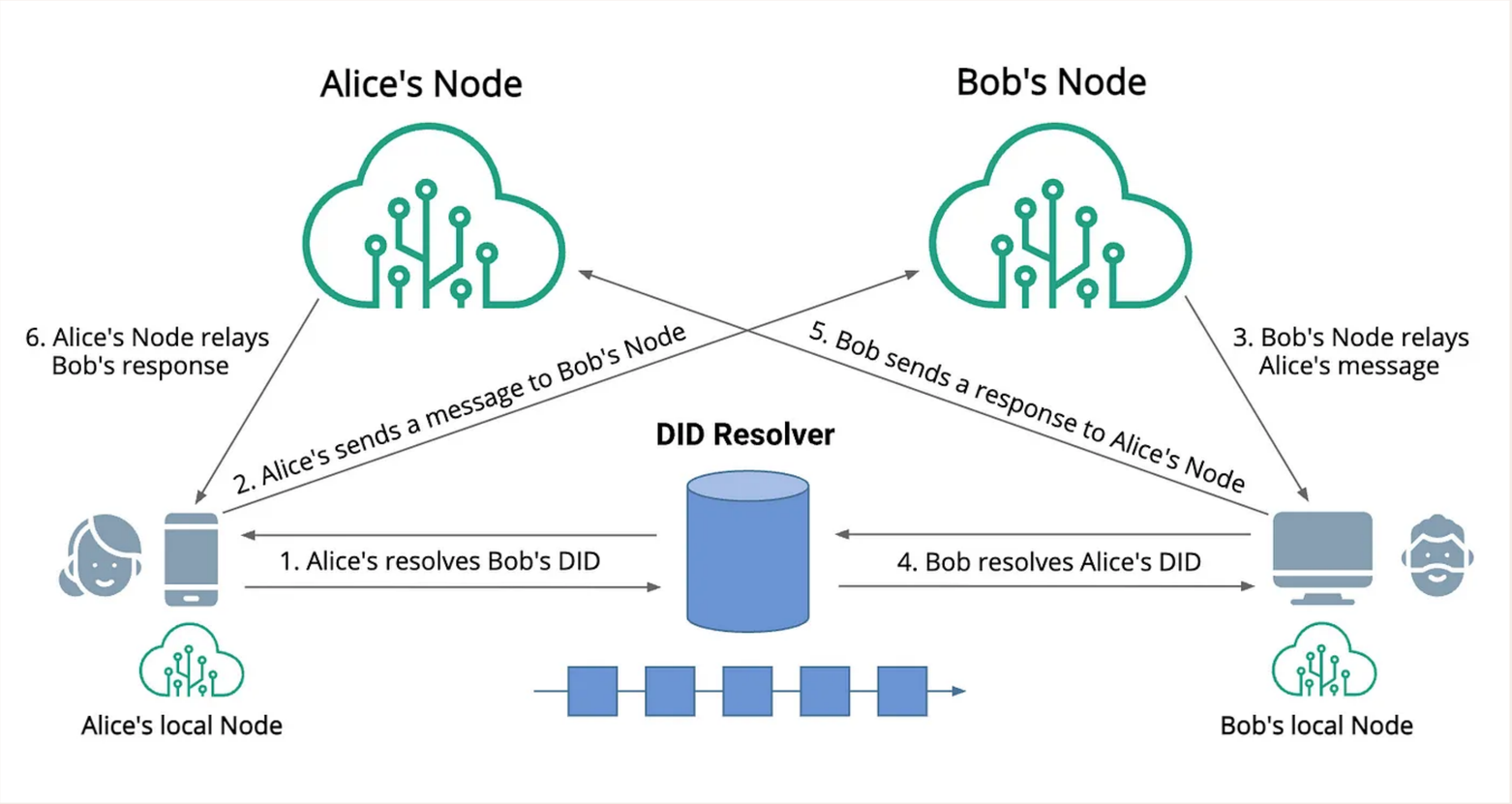
did:ion:EiAdGwEUhV-SPP7TKMGME1hijDUMa_EyTNfBl72tBWYISw

DID document


```
{
  "id": "did:ion:EiAdGwEUhV-SPP7TKMGME1h",
  "@context": [
    "https://www.w3.org/ns/did/v1"
  ],
  "service": [
    {
      "id": "#dwn",
      "type": "DecentralizedWebNode",
      "serviceEndpoint": {
        "encryptionKeys": [
          "#dwn-enc"
        ],
        "nodes": [
          "https://dwn.tbddev.org/dwn2"
```

Decentralized Web Nodes

DWN = Secured storage + Permissions + message relay



DWN

Protocols and open technology

AI use cases of SSI and Web5

- learning on private data
- Authentic sensors — how to prove origin of content
- ZKML — proof of Model use
- data economy
- agents interaction

Personal AI use cases

- friend ->mentor -> couch -> psychologist
- proof of personhood
- personalized experiences without risking privacy
- extended brain

The bridge

- from data chaos
- to data that you care

- personal
- private
- build on top of web5

Q&A