



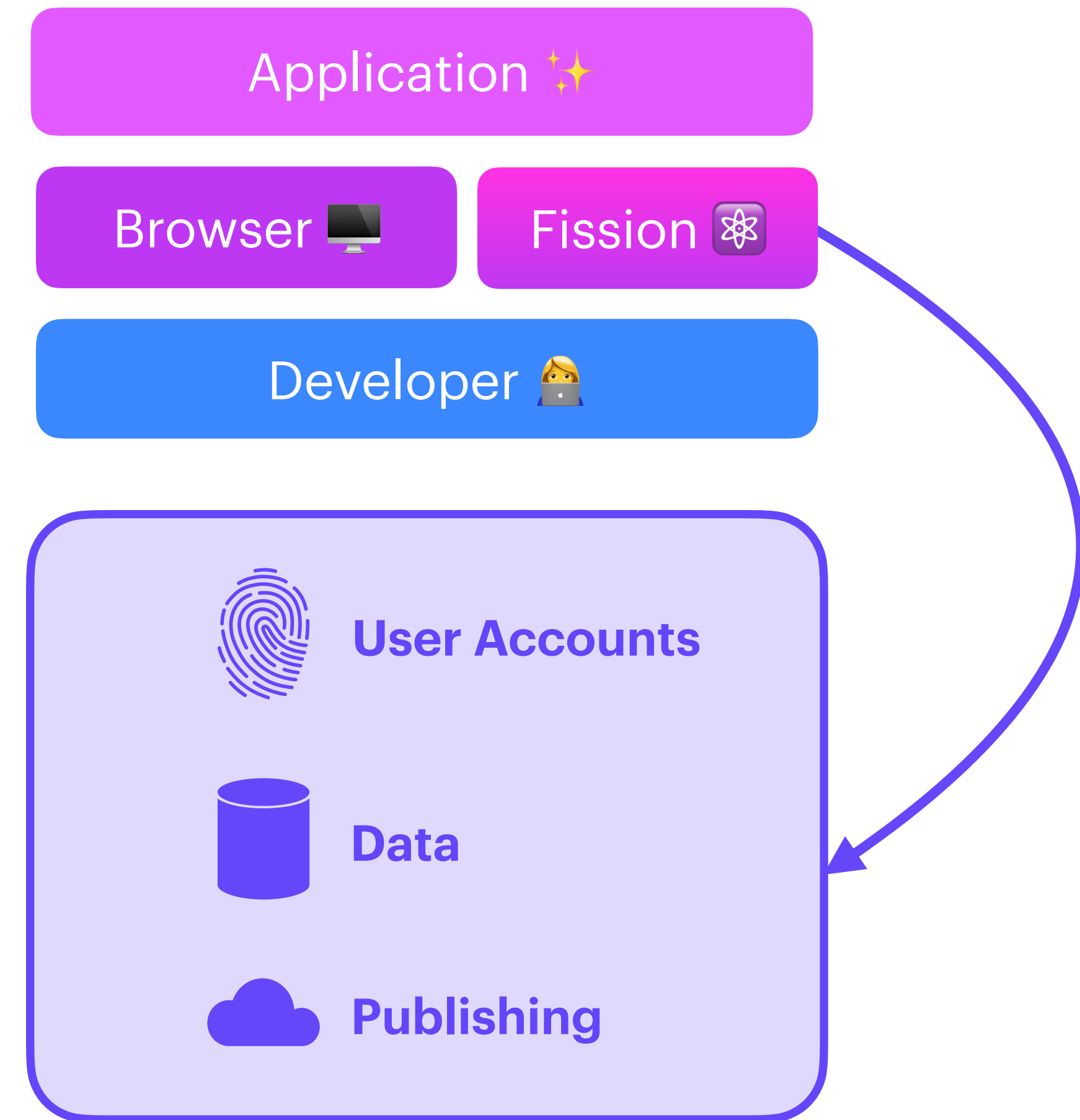
MAY 2021 DEMO DAY

May 20th, 2021



WHAT IS FISSION?

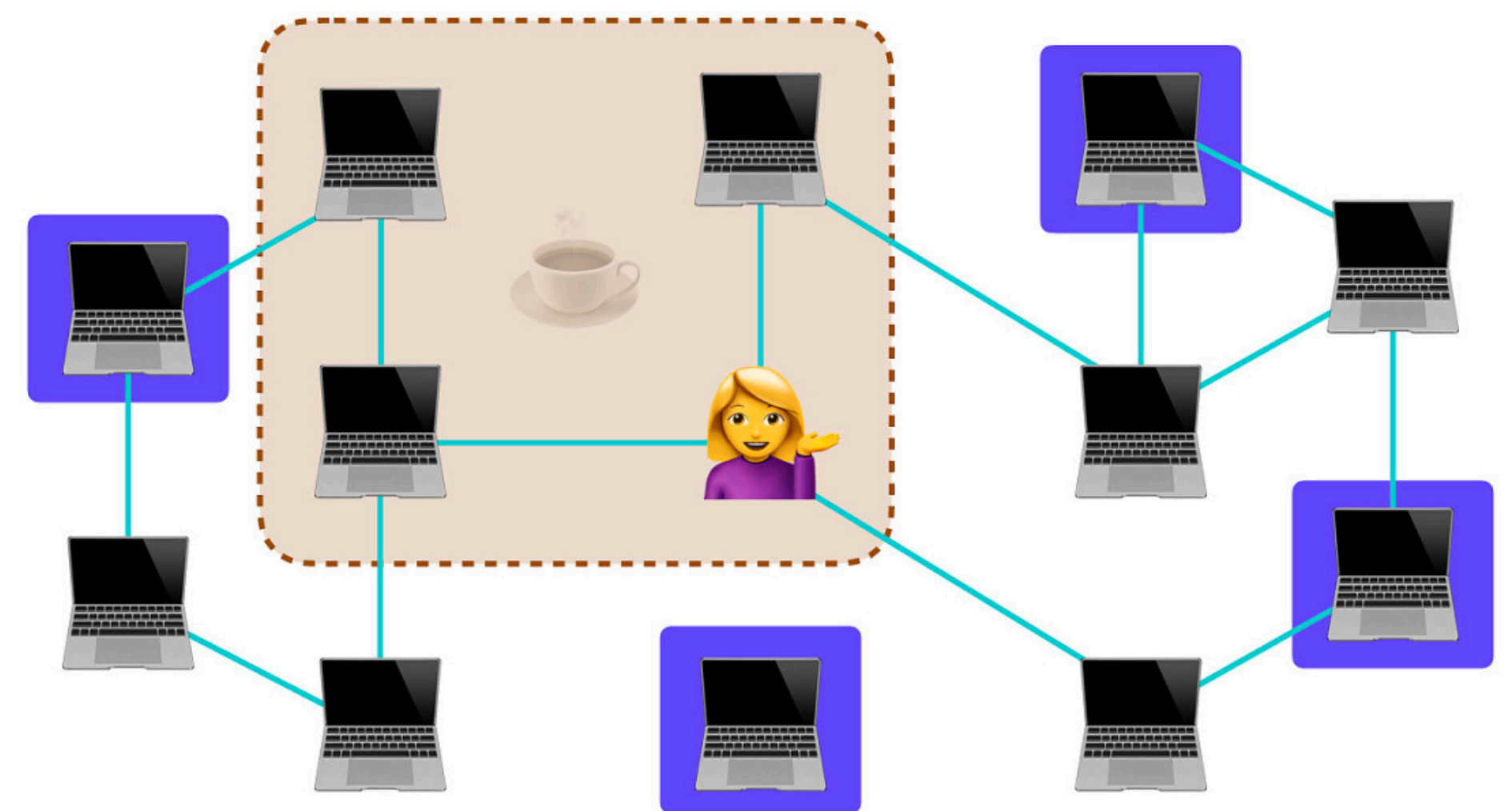
- For users, Fission apps keep your data secure and personally accessible — your data, available everywhere, and inter-linked automatically
- For developers, build full edge apps with portable identity, encryption, data, and offline capability
 - Add the webnative SDK to your front end framework of choice
 - Easy publishing on our platform, or host anywhere you like





IPFS COMMONS NETWORK

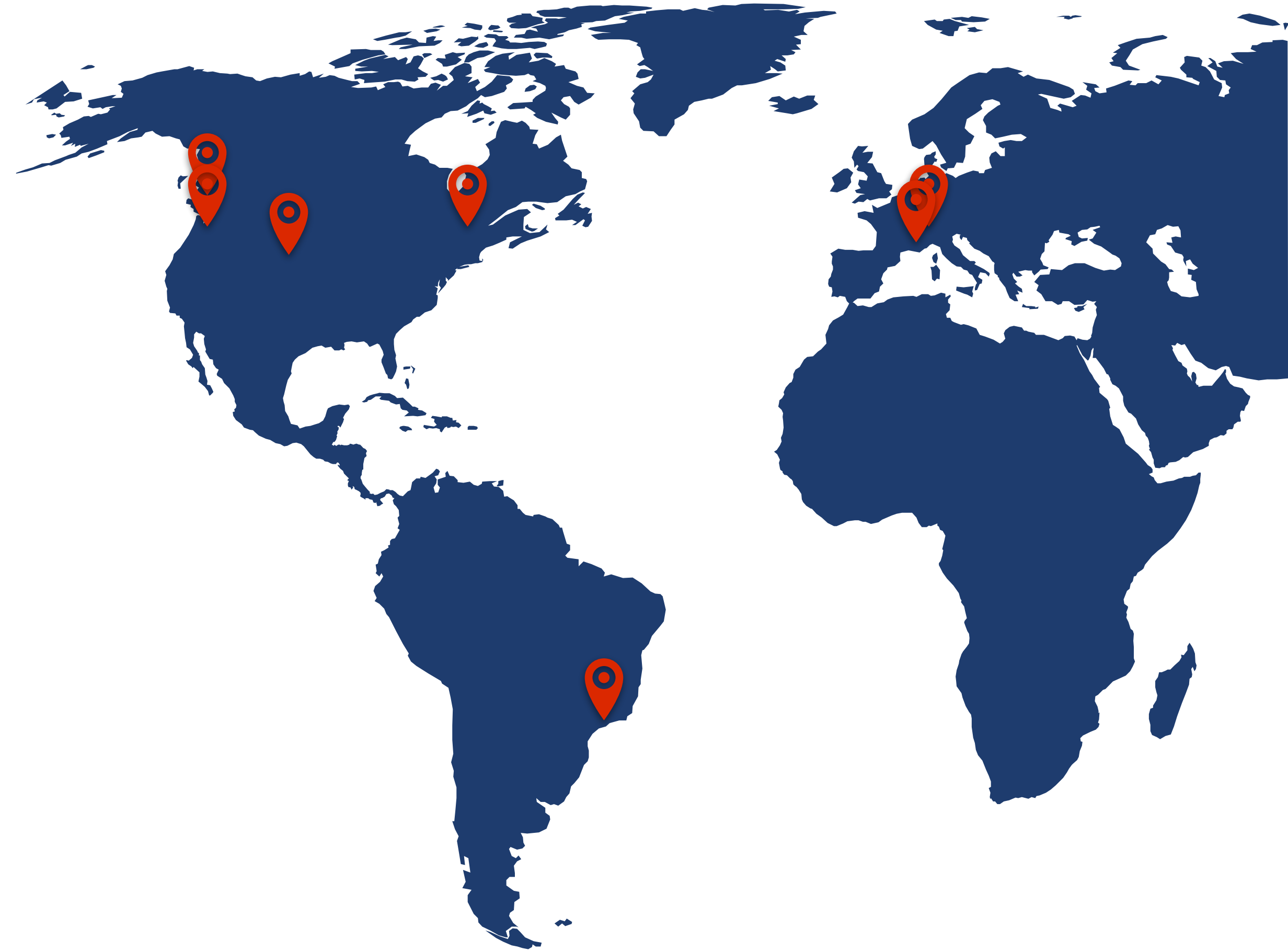
- Data available as a “content address” — not tied to a server, anyone can help host content
- Fission’s WebNative File System (WNFS) adds private, encrypted files and a permission model
- Personal data store: data that you care about! App data, files, and more.
- Accessible from any web browser, including mobile





MEET THE TEAM

- New!
- Jeff 🇨🇦 @midijeffg
 - Head of Product



Distributed team growing globally, company is Canadian and HQ is in Vancouver.



DECENTRALIZED IDENTITY FOUNDATION



- Fission is now an Associate Member of the DIF
<https://identity.foundation>
- Fission accounts have been based on Decentralized IDs (DIDs) from the beginning
- Working with the secure data storage / personal data store working group
- IPFS has been chosen as a building block, defining standards and interfaces on top





DID INTEROPERABILITY

- Goal: accept DIDs from other systems — bring your own identity!
- We will be adding DID support to the Fission server
 - Targeting Microsoft ION network as first interop target
 - Looking to connect with developers to do sample interop flows with other types of DIDs





TIDDLYWIKI DEMO

- Jeremy Ruston @Jermolene, Creator of TiddlyWiki
- Run TiddlyWiki on Fission
 - <https://tiddlywiki.fission.app>
- Upload existing TiddlyWiki's through Drive
 - <https://drive.fission.codes>





UPLOAD IMAGES, ASSETS TIDDLYWIKI PLUGIN

- Support the initial development of a webnative plugin for image, pdf, and other file uploads. The plugin stores uploads in your webnative file system on IPFS.
- Contribute on OpenCollective <https://opencollective.com/tiddlywiki-on-fission>
- Get in touch if you want to develop the plugin!



VSCODE FISSION PLUGIN

- Presented by: Brian
- Run common CLI commands around app registration and publishing from within VS Code
- VS Code Marketplace: <https://marketplace.visualstudio.com/items?itemName=fissioncodes.fission>
- Github: <https://github.com/fission-suite/fission-vscode>





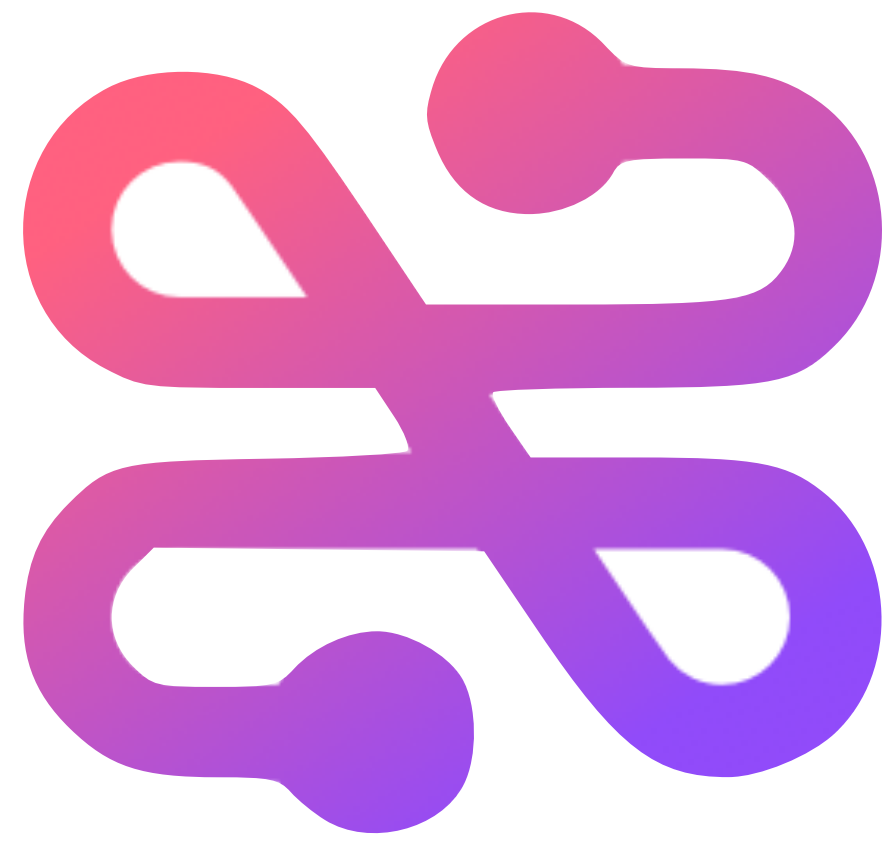
ACCOUNT BACKUP WORK-IN-PROGRESS

- Presented by: Philipp
- Fission accounts are controlled by private keys that we don't have access to
- In order to not lose access to your encrypted files, we're working on account backup & recovery
- For now, link your desktop with the CLI so you can easily re-link new browser devices



EVENTS

- May 27th: Tools for Thought Interchange: atJSON with Blaine from Conde Nast, Jeremy from TiddlyWiki, Gordon from Subconscious
- May 28th: Book Club: Tim Wu, Master Switch
- June 3rd: Tools for Thought Part 2: Standoff Editors with Iian from Codex



fission

THANK YOU!

Github: [fission-suite](https://github.com/fission-suite)

Developer Guide & Docs:
guide.fission.codes

Technical Whitepaper:
whitepaper.fission.codes 🚧 🧑🏻‍🔧 ✍️

Home page: fission.codes

Discourse forum: talk.fission.codes

Discord chat: fission.codes/discord

Twitter: [@fissioncodes](https://twitter.com/fissioncodes)



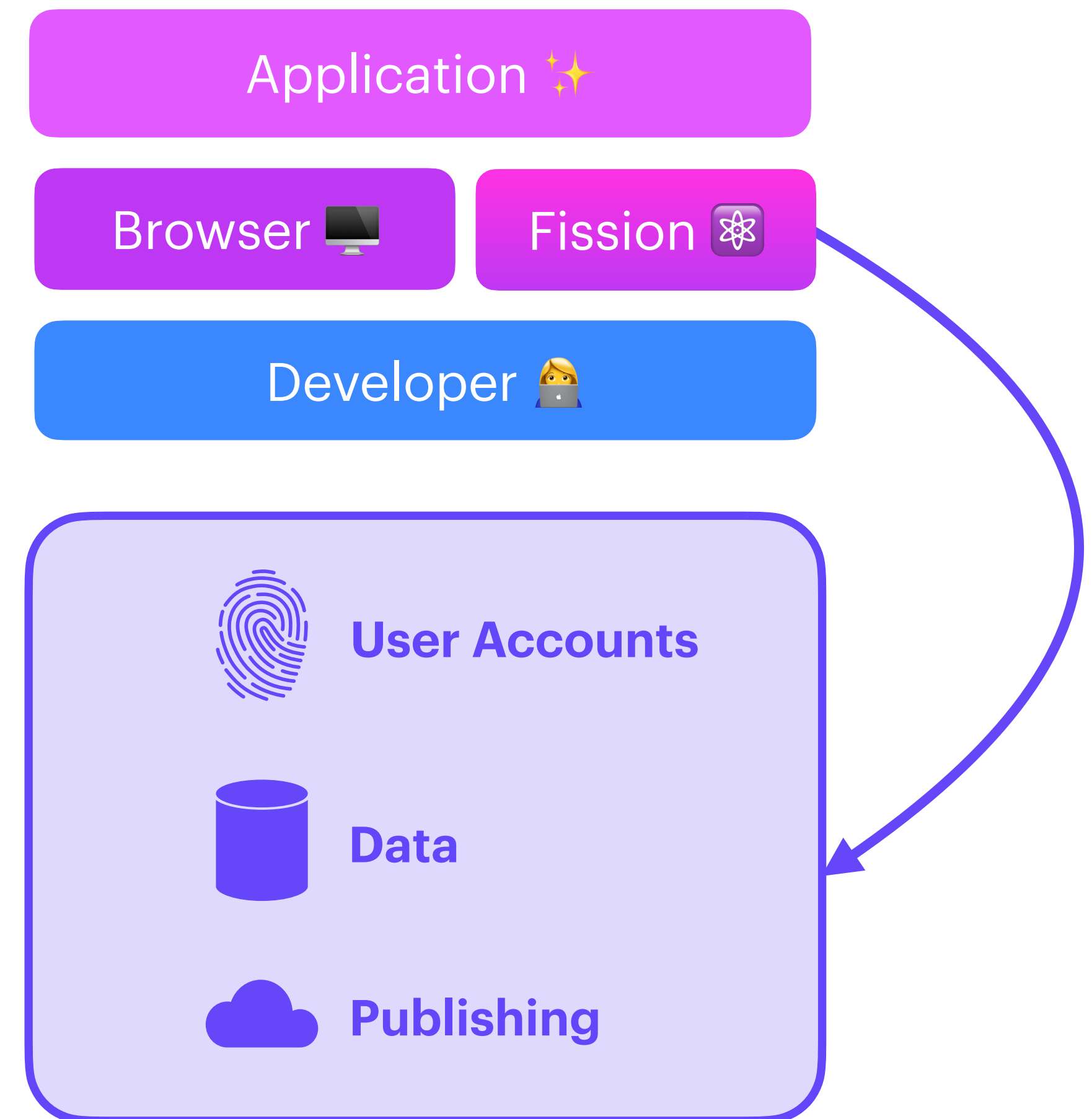
BORIS ON TIDDLYWIKI

- Tiddly Groceries <https://boris.files.fission.name/p/twgroceries/>
- Drift Notes <https://boris.files.fission.name/p/tiddlywiki/drift.html>
- TiddlyWiki on Fission <https://boris.files.fission.name/p/tiddlywiki/twof.html>
- Fission Edition <https://boris.files.fission.name/p/tiddlywiki/fission-edition.html>



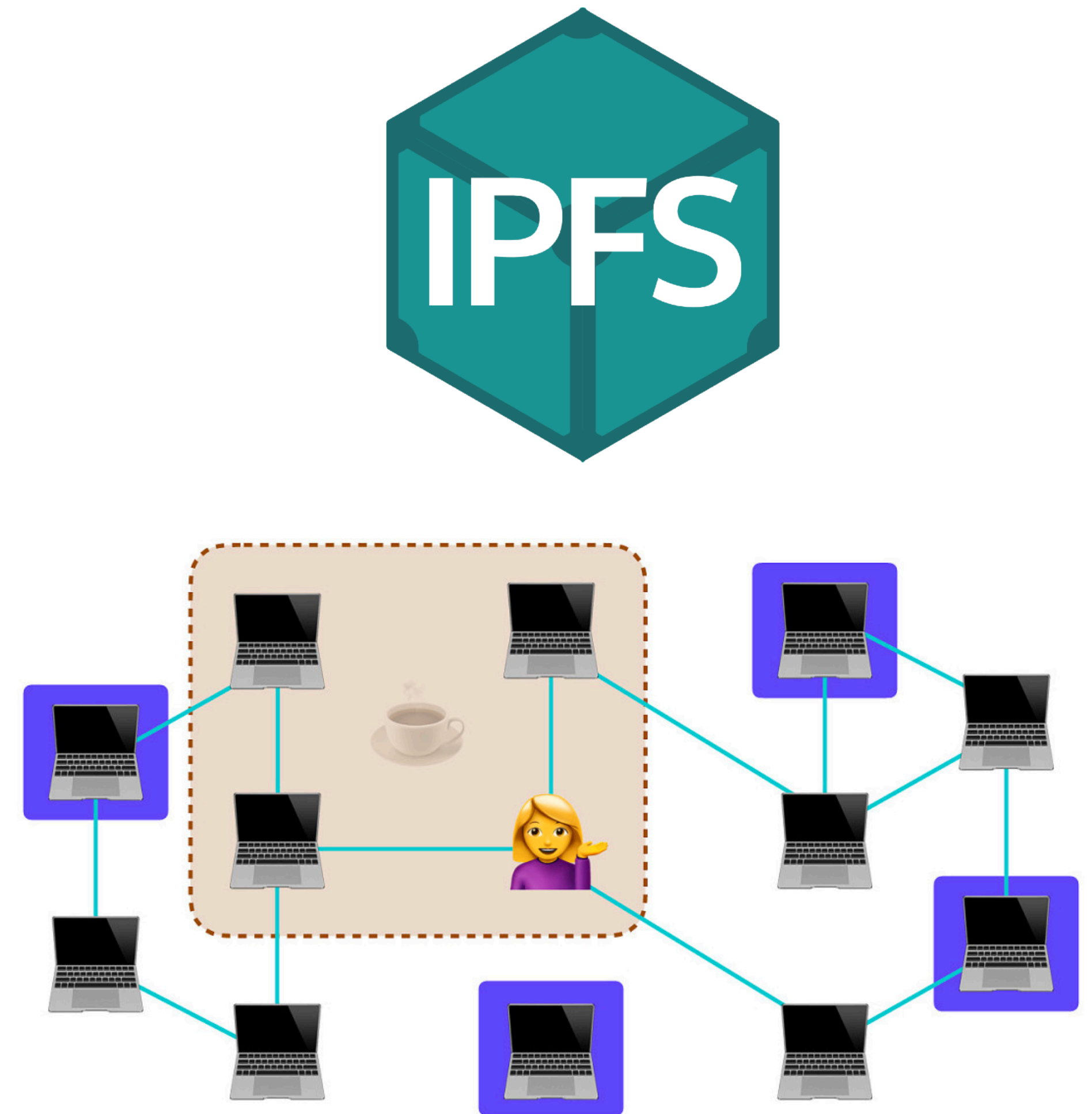
WHAT IS FISSION?

- Fission is building a client side edge stack with identity & auth, user owned data, and a distributed file system on top of IPFS
 - Standardize and integrate “hard” things like privacy, security, sync & more
 - Individuals and teams can focus on full featured apps that act like desktop or mobile, including offline
- We’ve built our App Publishing Platform to showcase how things can be built in an integrated way
 - Sign up on the web, publish directly
 - Use the CLI, build locally, or Github Action to Publish
 - Subdomain, SSL, custom domains
- And: run our platform as a Constellation — developer platform in a box



WHAT IS IPFS?

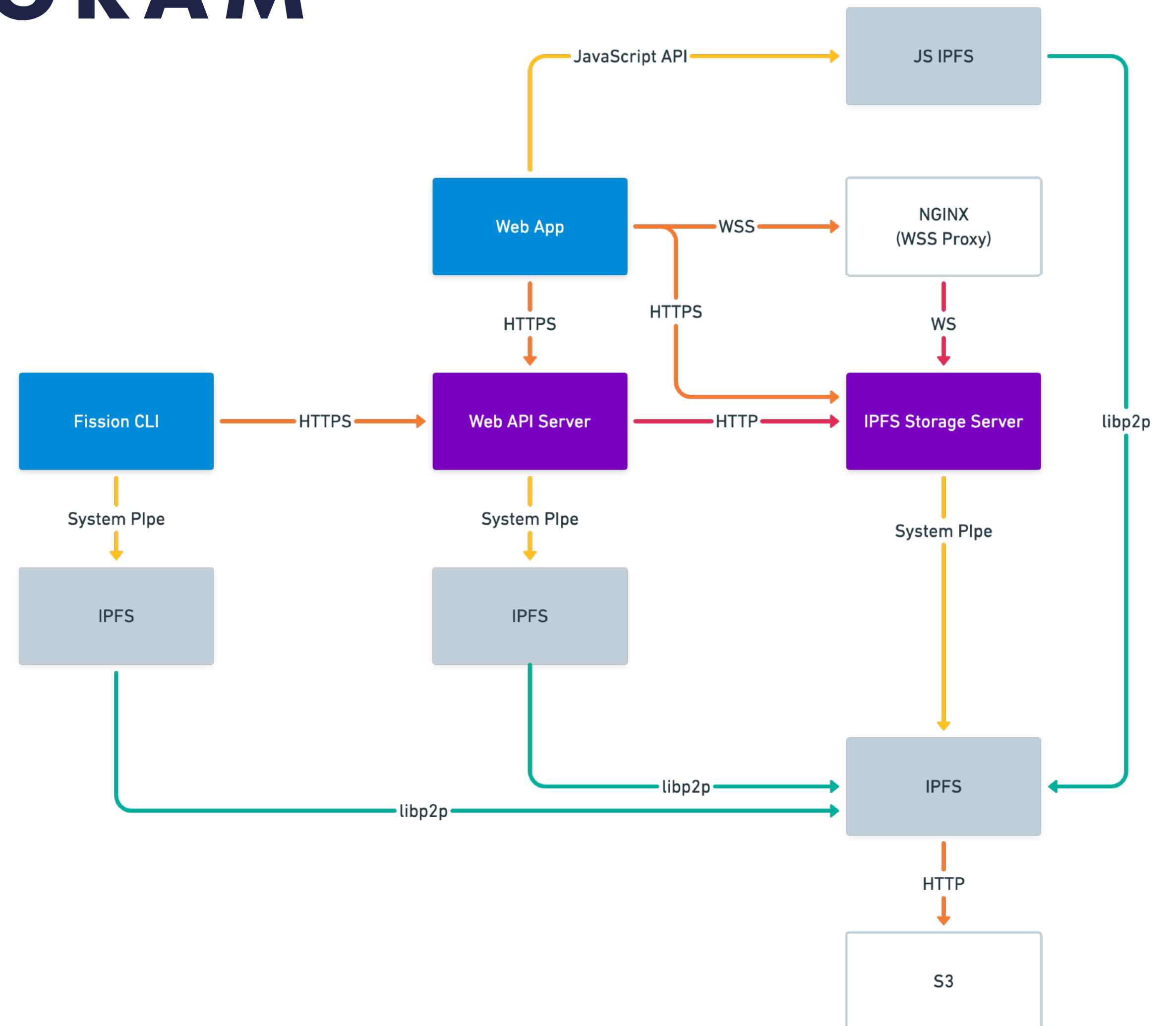
- InterPlanetary File System = IPFS
- A global “Commons Network” — anyone can help host it peer-to-peer: run a server on your desktop, a RPi, or in the cloud
- Files don’t have locations — they have content addresses, or content “IDs” == CID
- Works like BitTorrent plus Git — every directory & file broken into smaller blocks, all with CIDs, anyone can stream blocks to the file requester
- Find out more: ProtoSchool <https://proto.school/>



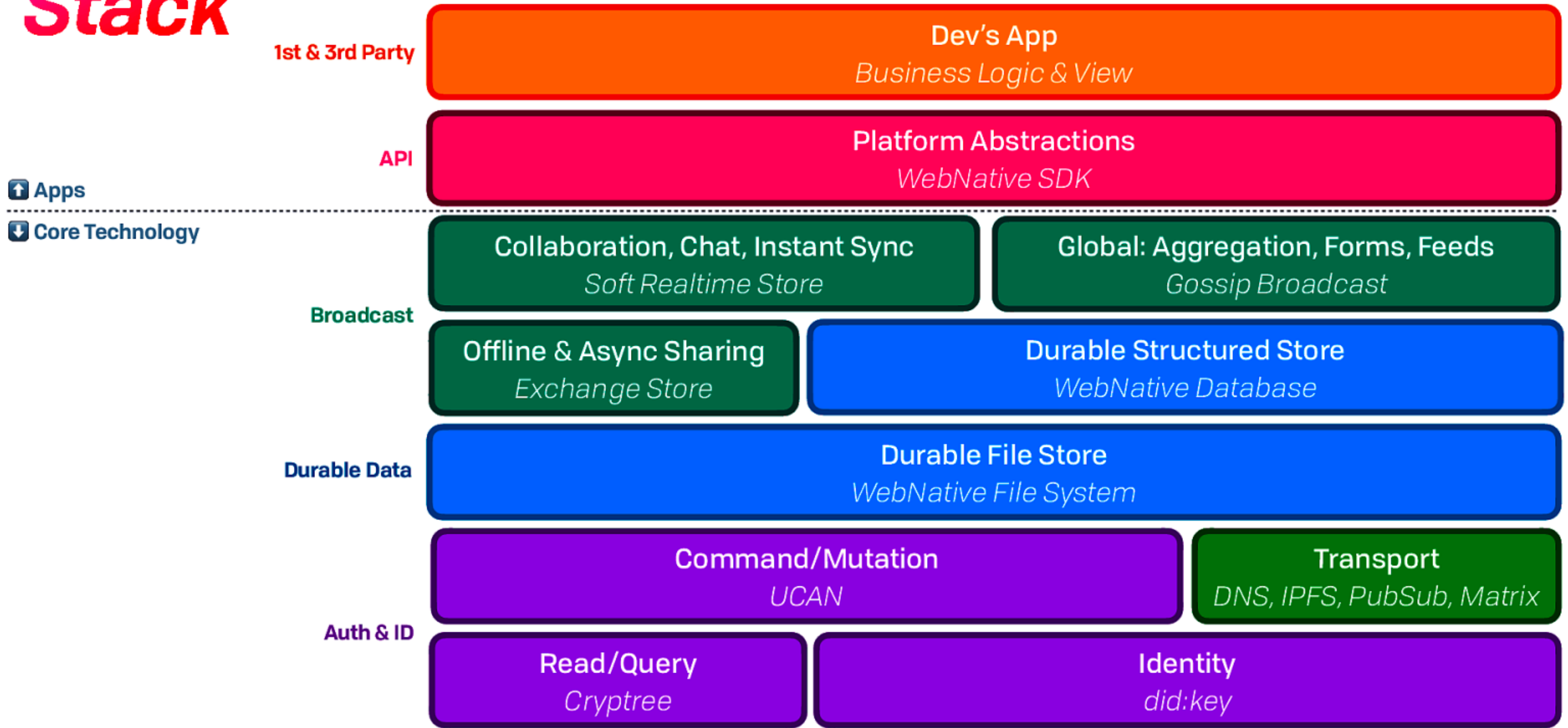


FISSION SYSTEM DIAGRAM

- Fission Web API (Haskell)
- Auth Lobby Web App (Elm)
- Fission CLI (Haskell)
- Drive Web App (Elm)
- Integrations, eg. Publish action on Github, Heroku Add-On, etc.



WebNative 
Stack



TECH BUILDING BLOCKS

- **IPFS:** a global “commons network” that anyone can participate in to share data and apps. Content addressing is awesome!
- **Browser APIs:** WebCrypto, PWAs and other browser features integrated so they are easy to integrate and include in your app
- **Decentralized Identifiers (DIDs):** portable accounts that can be user owned, plus Verifiable Credentials for data linked to accounts
- **UCAN:** a decentralized authentication specification
- **WNFS:** our Web Native File System, public + private/encrypted
- **WNDB:** adding full database capabilities to WNFS



EDGE IDENTITY & DATA

- Edge Identity:
 - Password-less Login
 - Decentralized Auth
 - Personal subdomain
 - Private Keys in the browser
- Edge Data:
 - End-to-End Encrypted
 - Versioning
 - Permanent "Archive" links with IPFS
 - Sync between devices