

FilOz Filecoin Pin Blog Post

Announcing Filecoin Pin: New Developer Tools for IPFS Pinning Onchain

When [Filecoin](#) first launched, it had an ambitious goal: to be the incentivized persistence layer for [IPFS](#). Changing how we address content, IPFS moved from fragile location-based URLs to verifiable content identifiers that never break. But without economic incentives or cryptographic guarantees, IPFS content only lasted as long as someone, somewhere, kept hosting it out of goodwill or individual interest.

Filecoin was designed to answer the question: “Who keeps the data in IPFS around?” The mission was clear - to transform IPFS from “best-effort pinning” or reliance on centralized providers into truly persistent, verifiable storage backed by economic incentives and onchain payments, and audited with cryptographic proofs.

Bringing IPFS & Filecoin Together

The mission of Filecoin has always been to create a decentralized, efficient, and robust foundation for humanity’s information, **starting with IPFS**.

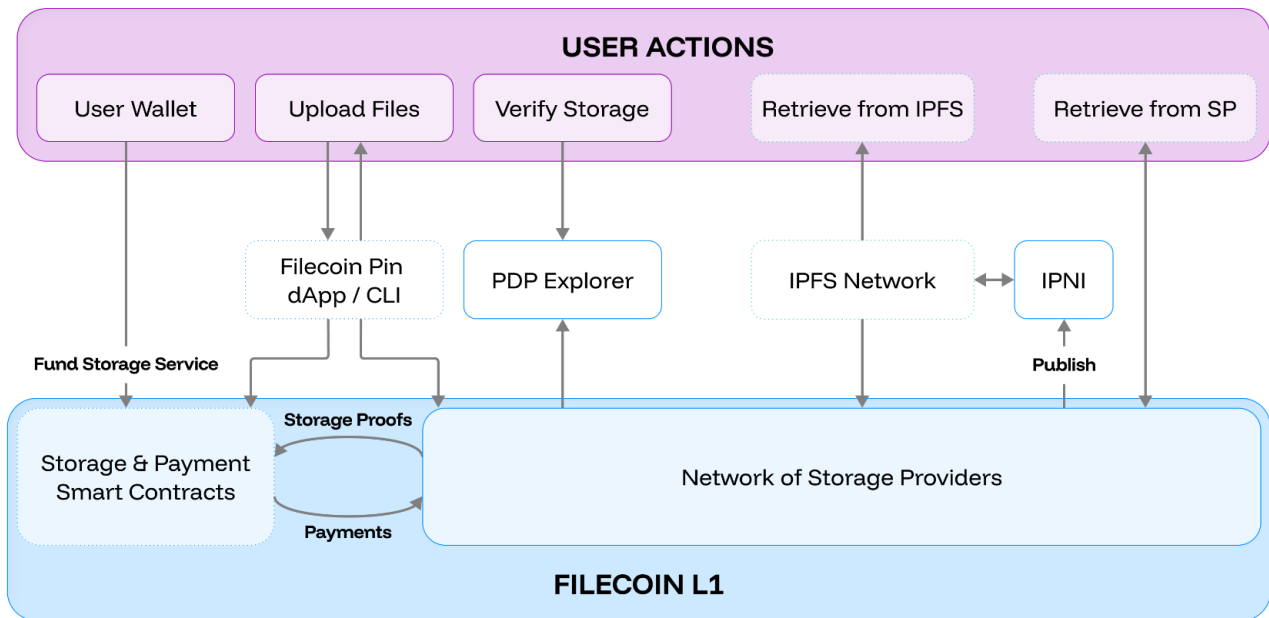
But until now, connecting these two systems has been anything but simple.

Developers wanting to combine IPFS content addressing with Filecoin’s verifiable storage proofs and incentives faced a maze of specialized storage onboarding flows, third-party vendors, or complex workarounds. A seamless integration of discovery, routing, and delivery at scale remained just out of reach.

Today, that changes.

With [Filecoin Pin](#), developers can now persist any file or existing IPFS data on the Filecoin network of decentralized and globally distributed storage providers using familiar workflows and IPFS tooling, from the [command line](#) to [GitHub Actions](#). IPFS pins now come with Filecoin’s verifiable storage guarantees and the ability to persist IPFS files with crypto wallet payments - no vendors, workarounds, or KYC dependency on credit cards required. **The decentralized storage stack is finally coming together!**

FILECOIN PIN ARCHITECTURE



How Filecoin Pin Works

When you use Filecoin Pin, your IPFS files are persisted on Filecoin. Storage providers must cryptographically prove that they continue to store and serve your data daily, and customers only pay when these storage proofs are successfully delivered and verified onchain. Your data is directly available from Filecoin storage providers throughout the storage period.

Filecoin Pin

DEMO

1

A FIL wallet, a funded Filecoin Pay Account, and Warm Storage Service have been set up automatically.

2

Select a file to pin and it will be packed into a [CAR](#) directly in the browser.

3

Your file is uploaded to a Filecoin SP using its Filecoin Piece CID, and a transaction registers it on the Filecoin Calibration testnet.

4

The Filecoin SP indexes your file and announces it to [IPNI](#), making it discoverable by other IPFS nodes.

5

Your data is safely and verifiably stored. You can audit onchain Filecoin storage proofs and retrieve files quickly using standard IPFS tooling (e.g., Gateways).

Learn more

 GitHub Action

 CLI

 Clone this demo

IPFS Pin on Filecoin

Pin any IPFS file to a decentralized network of Filecoin storage providers

 This demo runs on Filecoin Calibration testnet, where data isn't permanent and infrastructure resets regularly.

Uploaded files

fip-0036.md
32.23 KB

 Pinned



IPFS Root CID

[bafybeigawmbm3pbnwnt7wrk76abl44zabexbzqgyctf6a4nsg5ivckwww](#) 



Filecoin Piece CID

[bafkzciib2p4accy6r7y4hioudymgomfxpnkx2qfmyu4yyi76neu7mpznxehxdkb3iy](#) 



Provider

[PSPSPS](#)

View proofs

Learn more

IPFS Pin on Filecoin

ⓘ This demo runs on Filecoin Calibration testnet, where data isn't permanent and infrastructure resets regularly.

Uploaded files

IPFS Root CID

Filecoin Piece CID

Provider

[View proofs](#)

But verifiable persistence is only part of the equation; a complete storage solution also depends on fast, dependable access to data. Filecoin Pin brings this full circle.

Filecoin Pin is powered entirely by onchain smart contracts, decentralized storage providers, and common IPFS tooling like the [InterPlanetary Network Indexer \(IPNI\)](#) and the [IPFS Gateway](#). Developers pay for ongoing storage with web3 wallets like [MetaMask](#), and audit verifiable storage proofs on the [PDP Scan](#) Explorer.

[← Go Back](#)

Data Set Details: 6

Overview

Owner: [0xa3971a7234a3379a1813d9867b531e7eeb20ae07](#) Listener Address:

Status:	Active	Total Pieces:	22
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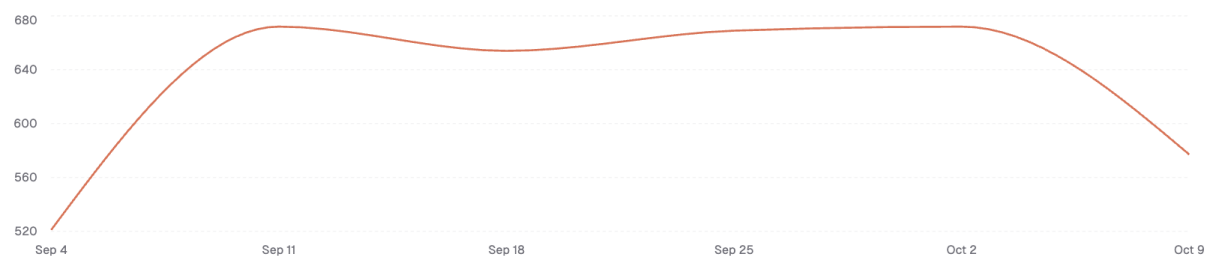
Total Pieces Proved:	10281	Data Size:	899.00 B
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Total Fee Paid:	531.02 nanoFIL	Faulted Periods:	0
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Last Proven: 3,105,352 Next Challenge: 3,105,379

Challenge Range: 12553595 Created At: Sep 5, 2025

Weekly Data Set Activity

Proof Submissions 

Historical Proving Heat Map (22 of 22 roots shown)

■ Not proven yet
 ■ Proven
 ■ Faulted proof



Pieces							
id	Piece CID	Size	Status	Data	Faults	Last Proven	Last Faulted
21	bafkzcbf73ajobyvf22qfuero2skwi46vglt7fakhnvxxlis2zhjxlte02rrymaweaba	42.00 B	Active	761	0	Oct 15, 2025	Never
20	bafkzcbf73ajobyvf22qfuero2skwi46vglt7fakhnvxxlis2zhjxlte02rrymaweaba	42.00 B	Active	1499	0	Oct 15, 2025	Never
19	bafkzcbf73ajobyvf22qfuero2skwi46vglt7fakhnvxxlis2zhjxlte02rrymaweaba	42.00 B	Active	751	0	Oct 15, 2025	Never
18	bafkzcbdvrrqwb6olvqtb5tuuo5gvqprcabo33k5uq7lvev5xsog22iqwh5u42bs	40.00 B	Active	1	0	Oct 7, 2025	Never
17	bafkzcb5e5xaaedbaiwkcfy3ahdwumocdsaqhm2zdkdwjfigkxhmlt4ogy356bhrfe	41.00 B	Active	5	0	Oct 14, 2025	Never
16	bafkzcbdvrrqwb6olvqtb5tuuo5gvqprcabo33k5uq7lvev5xsog22iqwh5u42bs	40.00 B	Active	0	0	Never	Never
15	bafkzcbdyefagqd3tyt3li47ofuv64sy5fhm6qc3ozkta6ia36dirhqng4e2bu	40.00 B	Active	0	0	Never	Never
14	bafkzcbewkkaodkmy2r4zxt3z2p432m4w4sl57v3ewno2q2jsufx7tg7icme22qshm	41.00 B	Active	6	0	Oct 11, 2025	Never
13	bafkzcb37gakdnp4ppotut66bhyluc3jnbm775tzqgt2xk7op35gvzdx32irbby	41.00 B	Active	5	0	Oct 15, 2025	Never
12	bafkzcbf73ajobyvf22qfuero2skwi46vglt7fakhnvxxlis2zhjxlte02rrymaweaba	42.00 B	Active	1521	0	Oct 15, 2025	Never

<
1
2
3
>

Transactions (7,555) Event Logs (11,320)				
provePossession				
Hash	Height	Method	Value (FIL)	Time
0x74be0730260fcf...d5d159be6c97c870	3,105,352	provePossession	4.05 nanoFIL	Oct 15, 2025
0xa25c275d90a3bb...7f838e8fca35c52f	3,105,321	provePossession	4.05 nanoFIL	Oct 15, 2025
0x9b681a06bdf0f3...85cdc730d0b94232	3,105,291	provePossession	4.05 nanoFIL	Oct 15, 2025
0x48b0d03c56ac10...d234c21902821536	3,105,261	provePossession	3.90 nanoFIL	Oct 15, 2025
0x6c6ce24d93fa1d...0703fab0b9d3a0d0	3,105,232	provePossession	3.90 nanoFIL	Oct 15, 2025
0xb88d76db5a63a8...f33bd7ace277a463	3,105,202	provePossession	3.90 nanoFIL	Oct 15, 2025
0xb9ac51fcbe073d...1bfe50732e6e4220	3,105,172	provePossession	4.05 nanoFIL	Oct 15, 2025
0xde6afb8033782b...b2d2fefad2f28555	3,105,141	provePossession	4.05 nanoFIL	Oct 15, 2025
0xcca8a1a9d23b35...37baae402c853b11	3,105,111	provePossession	4.05 nanoFIL	Oct 15, 2025
0xd5cfc8ca2ee42b...e80e53871ddaff61	3,105,081	provePossession	4.05 nanoFIL	Oct 15, 2025

Getting Started

Today, developers can start building with [Filecoin Pin](#) to power their IPFS dApps, workflows, websites, agents, and more!

There are 3 ways to start using Filecoin Pin today:

1. [Filecoin Pin CLI](#) - Upload new or existing IPFS files directly to Filecoin via the command line
2. [Filecoin Pin GitHub Action](#) - Use GitHub Actions to automatically publish websites or build artifacts to IPFS & Filecoin
3. [Filecoin Pin dApp Demo](#) - Run or fork a simple demo dApp using Filecoin Pin

We can't wait to see what you build! Here's a few ideas:

- Trustless onchain AI agents with fully sovereign data storage & persistence
- Auto-backup tooling for photos, videos, & large files
- Personal ENS website publishing flows with built-in wallet-funded pinning
- NFT onchain preservation Data DAOs
- Real-time data availability for chain snapshots or historical chain state
- Daemon sidecars for kubo or helia to pin each new 'ipfs add' to Filecoin
- New p2p collaboration tools with user-pays data persistence

And much much more!

Join us in [#fil-foc](#) for all the latest updates and realtime developer support as we build the Filecoin Onchain Cloud together!

Filecoin Pin in Action

Want to see Filecoin Pin in action? Grab a snack 🍿 and follow along with these 🔥🔥🔥 Filecoin Pin walkthroughs!

<dApp Demo Video>

<Github Action Demo Video>

Tab 2

Hey ____ - we have some exciting things planned for today to celebrate **Filecoin's 5th Birthday** - and would love for you to join!

- 🎂 **Birthday Hangout:** 11am ET on Kumo Spaces - would love to see you there!
<https://fil.org/events/filecoins-5th-birthday> 🎂
- 🚀 We're also launching **Filecoin Pin** — a new developer toolkit that lets you pin IPFS content directly to Filecoin SPs (check out this live demo site running from a Filecoin SP!):
<https://bafybeihqpfjfxvhwhqwkfjpngqkocwsgvc44dp7o4nw63ppi5jl2th3rtam.ipfs.dweb.link/>
- 🌐 Plus, we're previewing **filecoin.cloud** — introducing composable onchain services, smart-contract payments, developer SDKs, and warm onchain storage. 💪
- 🐧 Keep an eye out for **tweet threads** highlighting today's updates — we'd love your help sharing the love (and your favorite Filecoin memories or ideas)!
- 💪 And don't miss the **virtual FIL Dev Summit** tomorrow & Friday → fildev.io/FDS-7

Twitter Thread for FilOz account

Twitter Thread for FilOz account

1/ 🎂 Happy 5th Birthday, Filecoin! Today marks half a decade since Filecoin launched its mission to turn IPFS from peer-to-peer experiment into persistent, verifiable decentralized storage.

2/ When IPFS was born, content addressing was revolutionary — no more fragile URLs — but persistence was spotty. Data lived only as long as someone kept hosting it. Our mission with Filecoin: solve who keeps IPFS data alive! 🔗

3/ Filecoin's goal: transform “best-effort pinning” into economically incentivized, cryptographically verifiable persistence. Storage backed by proofs, payments, and audits! 💪

4/ But until today, stitching IPFS + Filecoin has been hard. Developers had to juggle vendor tools, KYC, custom integrations, or complex onboarding flows. The seamless stack was just out of reach. 😞

5/ 🚀 Enter Filecoin Pin — our new developer tools for pinning IPFS content directly to Filecoin using familiar workflows. No middlemen, no KYC, no friction. Just decentralized storage!

6/ With Filecoin Pin:

- Your IPFS files are stored by decentralized global providers
- They cryptographically prove storage daily
- You only pay on verified proofs (onchain)
- You retain sovereignty & portability

Learn more:

<https://medium.com/@filoz/announcing-filecoin-pin-new-developer-tools-for-ipfs-pinning-onchain-99b914b90e28>

7/ Filecoin Pin is built on smart contracts, a network of storage providers, and standard IPFS tooling (IPNI, gateway, etc.). Developer payments flow through wallets like MetaMask. Audit everything onchain using PDP Scan: <https://pdp.vxb.ai/calibration>

8/ Try Filecoin Pin today via:

- CLI — pin files from the terminal
- GitHub Action — automate site or artifact pinning
- Demo dApp — fork it & see for yourself

Docs: <https://docs.filecoin.io/builder-cookbook/filecoin-pin>

9/ What can you build with Filecoin Pin?

- Onchain AI agents with persistent data
- Auto-backup tooling for large media
- ENS + web publishing with wallet-funded pinning

- NFT preservation & Data DAOs
- Real-time availability for chain history
- Sidecars for Helia / Kubo to pin every “ipfs add”

... and much more 🚀

10/ On this 5th birthday, we celebrate not just what Filecoin is, but what it promises: true permanence, trustless storage, and a web no longer hostage to central servers.

11/ Join us today (and beyond) in building the Filecoin Onchain Cloud. We're excited to see what you'll create with Filecoin Pin!

<https://github.com/filecoin-project/filecoin-pin?tab=readme-ov-file#community-and-support>

💬 Follow #fil-foc for dev updates, and drop your questions/comments here — we'll be live to celebrate & code with you!

👋 Pin. Your. @IPFS. Content. On. @Filecoin. 👋

Today, we're celebrating @Filecoin's 5th birthday with a milestone that was meant to happen! Thanks to our partners at @ipshipyard, @Filecoin and @IPFS are now closer than ever.

Over the past decade, IPFS has truly changed how the world addresses content. I remember chatting with Jon late at night, hearing his excitement about how CIDs just *feel right*—giving data a tamper-proof, verifiable fingerprint. Imagine building a whole cloud service around that idea! That vision has drawn so many builders to the IPFS and Filecoin ecosystem.

But until now, keeping your IPFS content durable meant relying on goodwill—or a centralized vendor. Creating a decentralized, verifiable, persistent storage layer has always been at the heart of Filecoin's mission.

In the past five years, there have been constant efforts to make Filecoin accessible and usable for IPFS builders. However, these attempts haven't been super successful—specialized data prep, complex storage onboarding flows, and protocol differences have made Filecoin's storage services hard for builders to approach. Plus, simply offering high data durability doesn't fully address the needs of IPFS users.

So, when we at @FilOz set out to build a new storage proof focused on “availability of the data” with fewer protocol constraints—something that could integrate with the user storage market—Adin from IPFAS and I started to wonder: “Can Filecoin finally meet the needs of IPFS users?” and We believe the answer is YES and the time is NOW. And that's exactly where the Filecoin Pin project began.

The project had one simple goal: bring Filecoin closer to IPFS. We wanted to let IPFS users pin and persist their data using the familiar IPFS tools and workflows—seamlessly backed by Filecoin's verifiable storage proofs and paid with builtin crypto payments, all programmable and auditable onchain.

That vision is now a reality! Introducing **Filecoin Pin**:

Persist any file or IPFS data with decentralized, global Filecoin storage providers—using your favorite IPFS tools and workflows, from CLI to GitHub Actions.

How does it work?

When you use Filecoin Pin:

- Storage providers cryptographically prove they're storing your data
- You pay only when proofs are verified onchain
- No more “best effort” pinning or 3rd-party KYC

With Filecoin Pin, your data stays portable and sovereign:

- Choose your providers
- Audit proofs and payments onchain
- No single company or vendor dependency

- Everything powered by smart contracts and web3 wallets

With Filecoin Pin, I can finally use Filecoin for my day-to-day needs—easily.

- ✓ Update and host a website on Filecoin by simply creating a PR:
<https://bafybeihqpfjxvhwqwkfjpnggkocwsgvc44dp7o4nw63ppi5jl2th3rtam.ipfs.dweb.link/>
- ✓ Use Filecoin Pin as my personal drive—just drag and drop to store (and share!) my cat videos

Best of all, my data is stored across a global network of @filecoinSP, not locked away in a datacenter owned by hyperscalers.

Filecoin Pin is built for builders and getting started is made simple with the toolkit and demos:

- 1 Filecoin Pin CLI: Upload from the command line
- 2 Filecoin Pin GitHub Action: Automate with CI/CD
- 3 Filecoin Pin dApp: Try the drag-and-drop demo app

For more details: check out our
blog <https://medium.com/@filoz/announcing-filecoin-pin-new-developer-tools-for-ipfs-pinning-onchain-99b914b90e28> (yes, we are looking forward to moving our blog to Filecoin soon!)

Filecoin Pin is currently in alpha on Filecoin Onchain Cloud, try it out and let us know your feedback! We'd love to make this better for you, with you, so your next trustless agent, NFT DAO, or data wallet application can be powered by Filecoin! And there is more coming.. :sh - Follow @filoz and Join <https://www.filecoin.cloud/> to get the latest updates