



ENS Service Provider Update

January 16, 2025

Our Mission

Help ENS grow

Many status updates dropping soon

NameKit

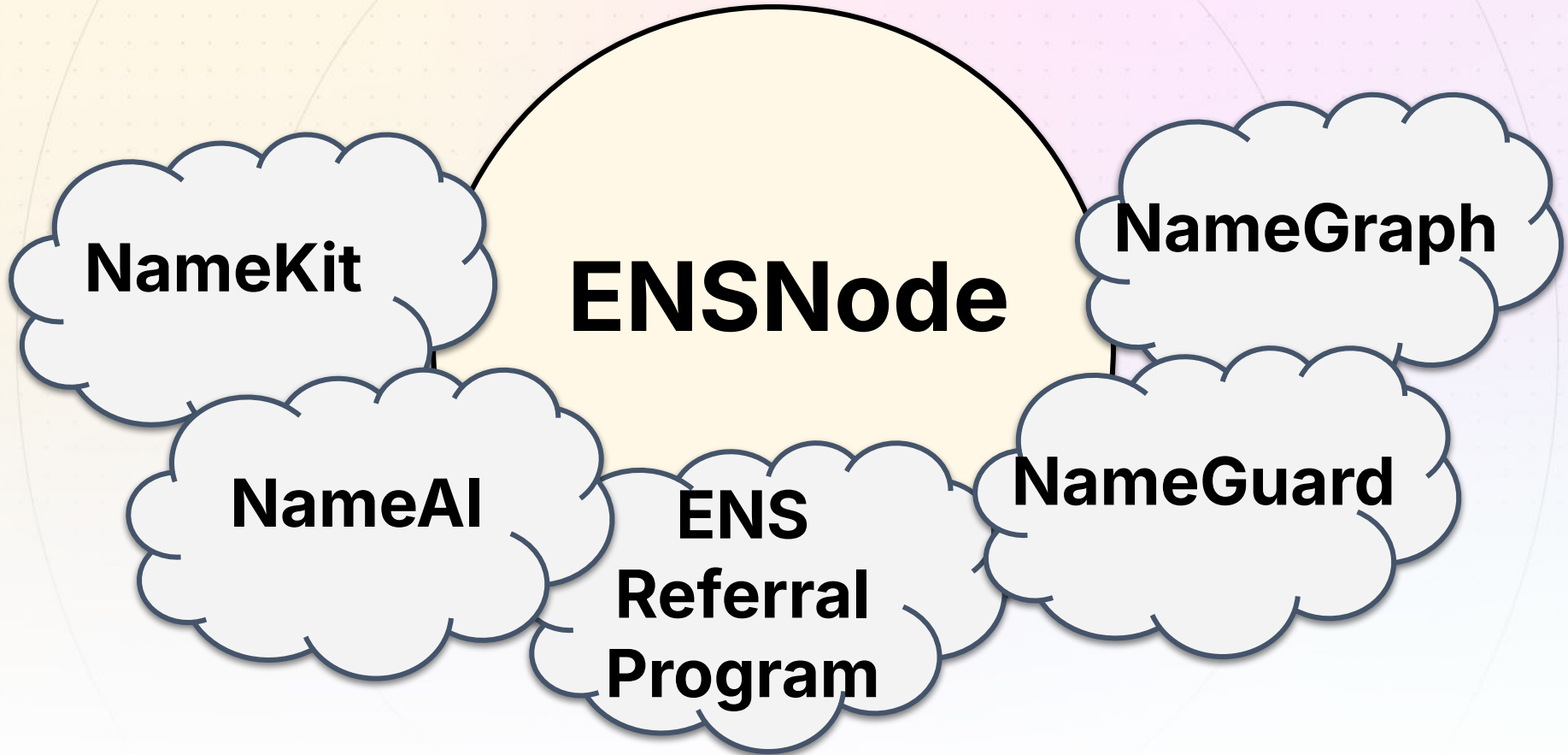
NameGraph

NameAI

**ENS
Referral
Program**

NameGuard

Announcing a new core ENS infrastructure project



ENSNode

multichain indexer for ENS

and more

ENS Subgraph: Background

ENSjs

The screenshot shows the ENS Subgraph documentation page. The left sidebar contains a navigation menu with categories: Intro, Using ENS (sub-menu: Quickstart, Getting Started, Tools and Libraries, Web & Querying, Addresses, Text Records, Avatars, Primary Names, Listing Names, Advanced), Decentralized Web, Issuing Subdomains, Naming Smart-contracts, Layer 2's & Multichain (sub-menu: Subgraph), Design (sub-menu: Thorin, Brand), Smart Contracts, and Governance. The main content area is titled "Subgraph" and includes an introductory paragraph, a section for "The Graph" with links to mainnet, sepolia, and holesky, a "GraphQL Schema" section, a "Use Cases" section, and an "Example Queries" section. A notice at the top of the main content area states: "Developers are welcome to use our rate limited API endpoints above for testing, but it is highly encouraged to sign up for a free account with TheGraph to get your own API key."

The screenshot shows the ENS profile page for "nick.eth". The profile includes a bio: "Lead developer of ENS & Ethereum Foundation alum. Certified rat tickler. he/him. ens.domains". Below the bio, there are sections for "Accounts" (listing @nicksdjohnson, arachnid, and nickjohnson0001), "Addresses" (listing 0xb8c...26745), "Other Records" (listing avatar, eth.ens.delegate, snapshot, ipns:/storage..., contenthash), and "Ownership" (listing manager, owner, and expiry date of November 8, 2034).

ENS Subgraph: Why it matters

getSubgraphRegistrant

getNamesForAddress

getSubnames

getDecodedName

getNameHistory

getSubgraphRecords

... and many more ...

ENS Subgraph: Why it matters

getSubgraphRegistrant

getSubnames

getNameHistory

getNamesForAddress

getDecodedName

getSubgraphRecords

... and many more ...

EXAMPLE USER JOURNEY
Set Primary Name



ENS Subgraph: Great work!



**ENS
LABS**



The Graph



taytems.eth

and many others!

ENS Subgraph / GraphNode: Limitations

Slow backfills

Single chain

**DevOps
complexity**

**Development
complexity**

**Costs /
Rate limits**

Sandboxed JS


**Testing
complexity**

ENS Subgraph / GraphNode: Limitations

Slow backfills

Development complexity

Costs /
Rate limits

Single chain


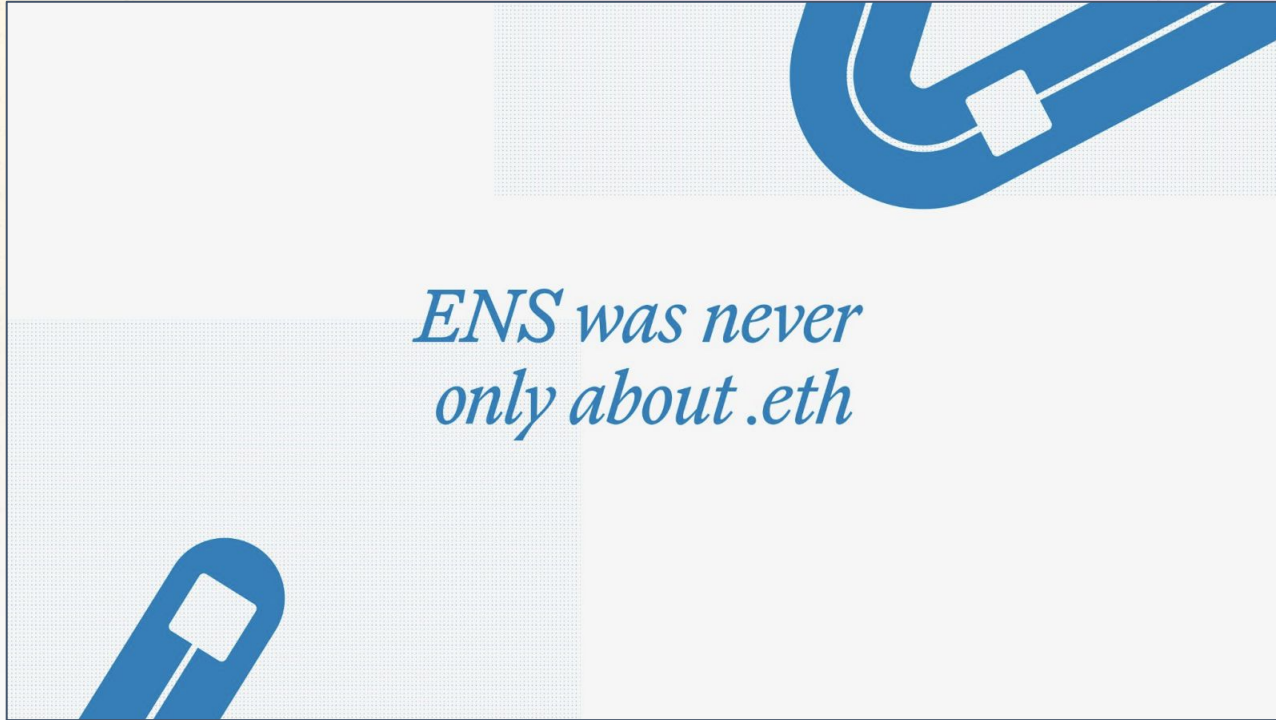
Sandboxed JS

Testing complexity

DevOps complexity

A big issue!

ENS is multichain



Slide from the “State of ENS” talk delivered by Jeff Lau at Devcon 2024

ENS is multichain

**The future of ENS
is offchain and L2**

using CCIP Read

Slide from the “State of ENS” talk delivered by Jeff Lau at Devcon 2024

ENS is multichain



447k



486k



1M



12M

Slide from the "State of ENS" talk delivered by Jeff Lau at Devcon 2024

ENS is multichain



**growing
fast**

validator.linea.eth

@ValidatorEth

Now over 700,000 Basenames!

Basenames |

Base

Basenames are a core onchain building block that enables anyone to ... [See more](#)

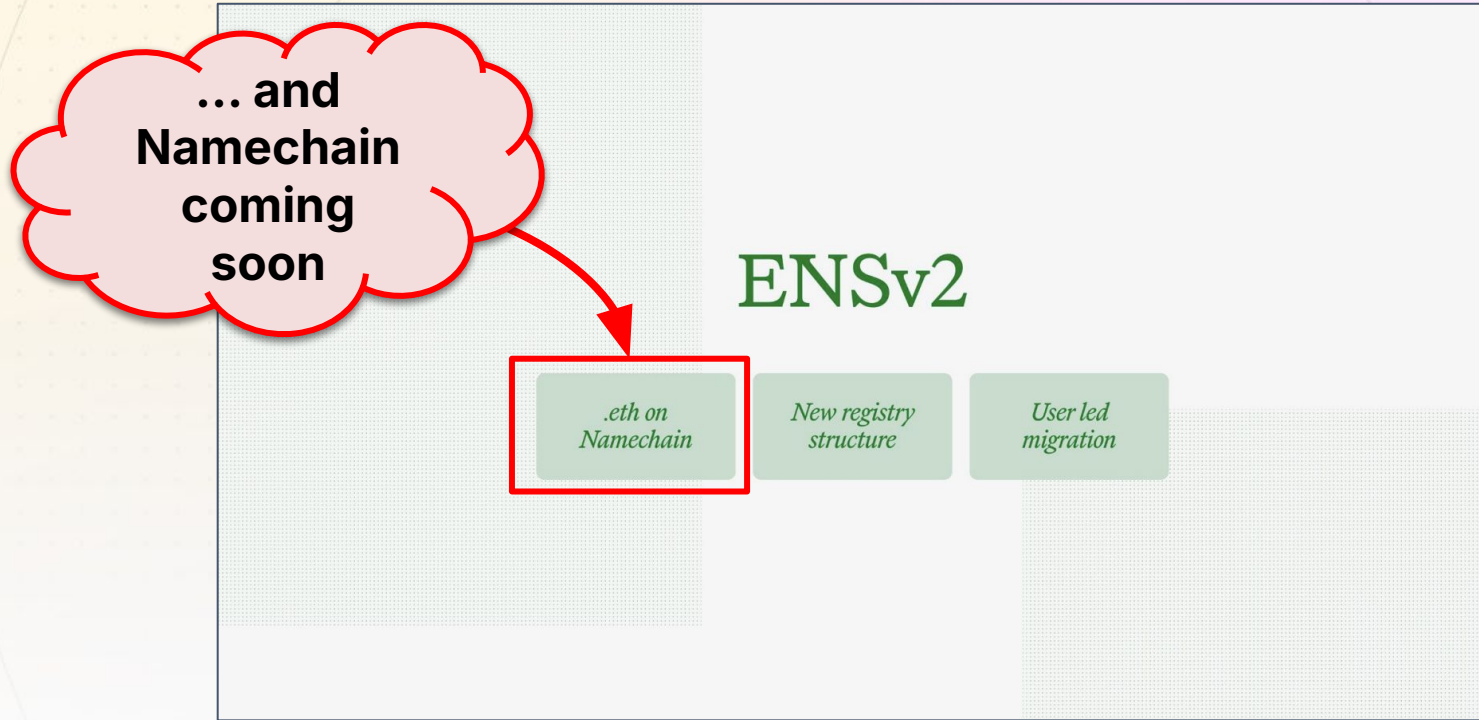
Items 704.5K · Created Jul 2024 · Creator earnings 0% · Chain Base

Items Activity

Live 704,451 results Search by name or trait


<https://x.com/validatoreth/status/1879670268718932433>

ENS is multichain



Slide from the "State of ENS" talk delivered by Jeff Lau at Devcon 2024

The big idea



**ENS needs a multichain
subgraph**

The big idea

**ENS needs a multichain
~~subgraph~~**

The big idea

**ENS needs a multichain
indexer**

The big idea



ENS needs ENSNode

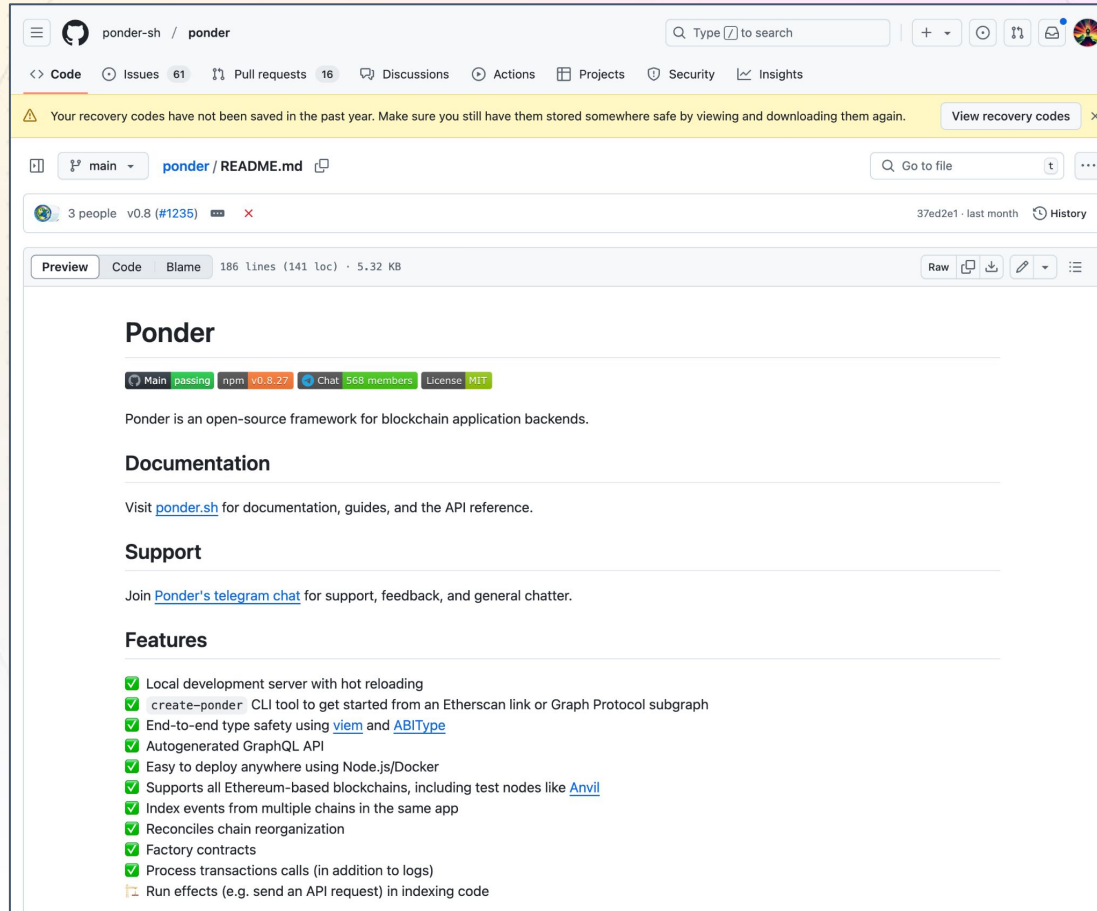
The big idea

ENS needs ENSNode

DECENTRALIZED

**Run your own
instance!**

ENSNode: built on Ponder



The screenshot shows the GitHub repository page for 'ponder-sh / ponder'. The repository is on the 'main' branch, and the selected file is 'ponder / README.md'. The README content is as follows:

Ponder

Main passing npm v0.8.27 Chat 568 members License MIT

Ponder is an open-source framework for blockchain application backends.

Documentation

Visit ponder.sh for documentation, guides, and the API reference.

Support

Join [Ponder's telegram chat](#) for support, feedback, and general chatter.


Features

- ✓ Local development server with hot reloading
- ✓ `create-ponder` CLI tool to get started from an Etherscan link or Graph Protocol subgraph
- ✓ End-to-end type safety using [viem](#) and [ABITypes](#)
- ✓ Autogenerated GraphQL API
- ✓ Easy to deploy anywhere using Node.js/Docker
- ✓ Supports all Ethereum-based blockchains, including test nodes like [Anvil](#)
- ✓ Index events from multiple chains in the same app
- ✓ Reconciles chain reorganization
- ✓ Factory contracts
- ✓ Process transactions calls (in addition to logs)
- 🔗 Run effects (e.g. send an API request) in indexing code

ENSNode: building in public

ENSNode **alpha**

More info coming soon

Try it now 

 GitHub

<https://github.com/namehash/ensnode>

ENSNode: building in public

**Alpha under
development**

ENSNode **alpha**

More info coming soon

Try it now [↗](#)

[GitHub](#)

**Focus on v1
release**

**Big plans for
v2+**

<https://github.com/namehash/ensnode>

ENSNode: growing the NameHash Labs team



one of the many matts

shrugs.eth



Tomasz Kopacki

tko.box

ENSNode: Follow on presentations



ENSNode v1 strategy



Intro to ENSNode plugins

ENS Subgraph Transition Tools

```
→ snapshot-eq git:(main) bun run start -- diff 10000000  
$ bun run --env-file ../../.env.local index.ts diff "10000000"  
Diff(10000000) – snapshots are identical.  
→ snapshot-eq git:(main) x █
```

**Goal: Build confidence in
backwards compatibility
with ENS Subgraph**

**subgraph compatible
GraphQL APIs**

**generate and diff
state snapshots**

**proxy to diff
API responses**

ENSNode: Demo of multichain indexing + plugin architecture

```
localhost:42024
```

```
1 query GetOwnedDomains($ownerAddress: String!) {
2   domains(
3     where: {OR: [{ownerId: $ownerAddress}, {wrappedOwnerId: $ownerAdd
4   }]{
5     items {
6       name
7       createdAt
8       expiryDate
9       ownerId
10      wrappedOwnerId
11    }
12  }
13 }
14
15 # query DomainsAmongChains {
16 #   linea: domains(where: {name_contains: ".linea.eth"}, limit: 3) {
17 #     items {
18 #       name
19 #     }
20 #   }
21 #   base:
22 #
23 #
24 #   et
25 #
26 #
27 #
28 #
29 # } {
30 #   items {
31 #     name
32 #   }
33 # }
34 # }
```

```
1 {
2   "data": {
3     "domains": {
4       "items": [
5         {
6           "name": "0xtko.base.eth",
7           "createdAt": "1736679958",
8           "expiryDate": "1776011253",
9           "ownerId": "0x8d3b2c5b93716508639e3ccfe2a3db58af540b66",
10          "wrappedOwnerId": null
11        },
12        {
13          "name": "didsendit.eth",
14          "createdAt": "1736679958",
15          "expiryDate": "1776020435",
16          "ownerId": "0xd4416b13d2b3a9abae7acd54c2bbdbe25686401",
17          "wrappedOwnerId": "0x8d3b2c5b93716508639e3ccfe2a3db58af540b66"
18        },
19        {
20          "name": "0xtko.linea.eth",
21          "createdAt": "1736679958",
22          "expiryDate": "1839063958",
23          "ownerId": "0xa53cca02f98d590819141aa85c891e2af713c223",
24          "wrappedOwnerId": "0x8d3b2c5b93716508639e3ccfe2a3db58af540b66"
25        },
26        {
27          "name": "
28          [838a87d8da5174082e69186aa0f28c04d9af1b291e4121b81e237ded76a1f709]",
29          "createdAt": "1736679958",
30          "expiryDate": null,
31          "ownerId": "0x8d3b2c5b93716508639e3ccfe2a3db58af540b66",
32          "wrappedOwnerId": null
33        }
34      ]
35    }
36  }
37 }
```

**Plugins activated:
.eth, base.eth, linea.eth**

**base.eth
subnames on
Base**

**(direct) .eth
subnames on
Mainnet**

**linea.eth
subnames on
Linea**

Join The Discussion with NameHash Labs

*We're eager to engage with the ENS community!
Let's collaborate and hear what use cases are important to you.*