

SERVERLESS
File Storage

SERVERLESS
Database

SERVERLESS
Trusted Computing

Our core mission is to help decentralized apps and protocols strip off the centralized parts of their stack, achieving a fully decentralized architecture

Supported Blockchains



Ethereum



Polkadot



Cosmos



BinanceChain



Solana

Built-in crosschain compatibility

Current State



Live Network

Network alive, see the [explorer](#)



Live DApps

[Dropbox Clone](#), [Blogging App](#), [Starname...](#)



Live SDK

[Javascript](#) & [Python](#) Client Libraries

What Comes Next?



Resource Nodes

Sharding coming Q2 2021



Virtual Machines

Containers and WASM in Q2-Q3 2021



DID Framework

with [Synaps.io](#)

POC Done. Prod version being built

Why Use Aleph.im?

Build DApps without centralized components

Data storage and business logic runs on our unstoppable decentralized network instead of a centralized service such as AWS or Google Cloud.

This is the **first generation of fully decentralized apps**.

Use Cases

- ⦿ DEX Order Book
- ⦿ Document Certification
- ⦿ KYC Metadata
- ⦿ NFT Metadata
- ⦿ Document Management System
- ⦿ Cloud Storage
- ⦿ Real-Time DApps

Topology



Incentivized P2P network

Aleph is **not a blockchain**, but a P2P network with a **built-in incentivization mechanism**. Its custom network is built on top of technologies such as GossipSub and uses underlying chain consensus.



Data Storage

Data is stored on the nodes of the aleph.im network and messages are stored onchain on the different blockchains by batches. Transactions are free for the user on the aleph.im network as long as someone (dApp developer, user himself, protocol) incentivizes the storage.

Operating Nodes



Core Channel Nodes

- ⦿ Provide storage and computing resources
- ⦿ Control the network and how resources are dispatched to other nodes
- ⦿ Get rewarded even if no storage or computing resources are consumed
- ⦿ Received rewards are fixed in ALEPH tokens
- ⦿ **Already Launched!**



Resource Nodes

- ⦿ Only provide resources (no control of the network) such as storage and computing
- ⦿ Only rewarded if resources are consumed, i.e. files are being stored
- ⦿ Rewards fixed in USD and then distributed in ALEPH tokens
- ⦿ **Launch in 2021**



Private Node

It is possible to run your own private node to host your data, for instance if you are an enterprise company, and use the public network for data redundancy purpose.



Node Hosting Options

You can get your node hosted by one of our partners starting **from \$299.99 per month**. This includes hardware and maintenance costs.

Node Requirements

Core Channel Nodes

Staking Requirement

- ⦿ 200K ALEPH from node operators
- ⦿ 500K ALEPH from stakers*
* min 10K ALEPH per staker

Technical Requirement

- ⦿ Quad Core CPU minimum
- ⦿ 32-64GB RAM
- ⦿ Hard Drive 4+ TB

Resource Nodes

Staking Requirement

- ⦿ None
- ⦿ None

Technical Requirement

- ⦿ Quad Core CPU minimum
- ⦿ 32-64GB RAM
- ⦿ Hard Drive 10-20 TB

Rewards & Tokenomics

Initially there will be a total reward of **15,000 ALEPH tokens per day** for operators of Core Channel Nodes. The daily reward rate will then slowly decrease with time to avoid running out of tokens. We might transfer tokens from other pools into the incentive pool in the future if needed.

As of writing, we have 23 active nodes and the **Node Operators APR is approximately 117.39%**.