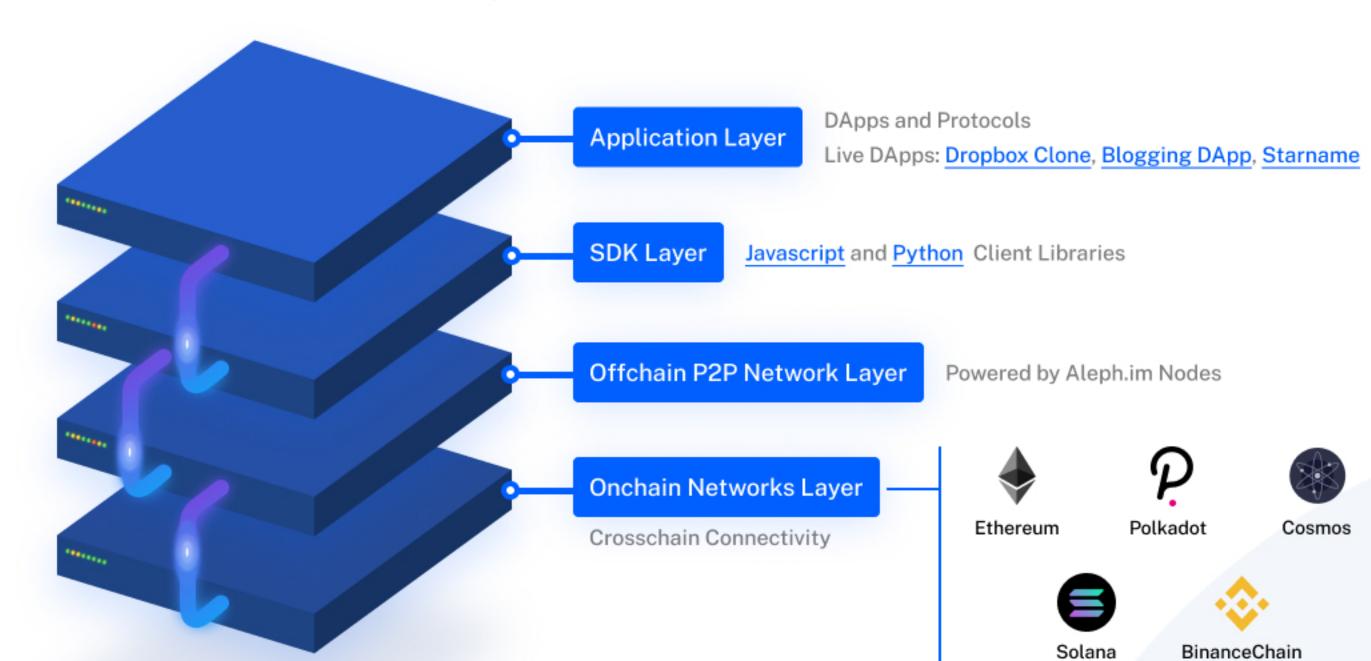


Solution Stack

Layers structure the whole solution



The two bottom layers are a unique blend of onchain and offchain decentralized technologies

Start Phase Offchain P2P Network Layer



The network features zero transaction fees and transaction speeds of 50-100ms

Onchain Networks Layer

Blockchains enable interactions with aleph.im network



Data is only replicated across

is limited for scalability.

nodes for availabilty. Replication

O Data Storage

Data is stored on nodes of the aleph.im network and messages are stored onchain.

Message Content

Metadata such as sender, hash, signature, time. The data, otherwise the hash is used to fetch the data from aleph.im nodes or IPFS.

Message Signature

Messages are signed using any of the chain addresses verified on the network. A message origin is verified by checking if it comes from the address that signed it.

Batched Transactions Onchain transactions are grouped,

so fees are tiny.

O Delegated Transactions Transactions are managed by the network.

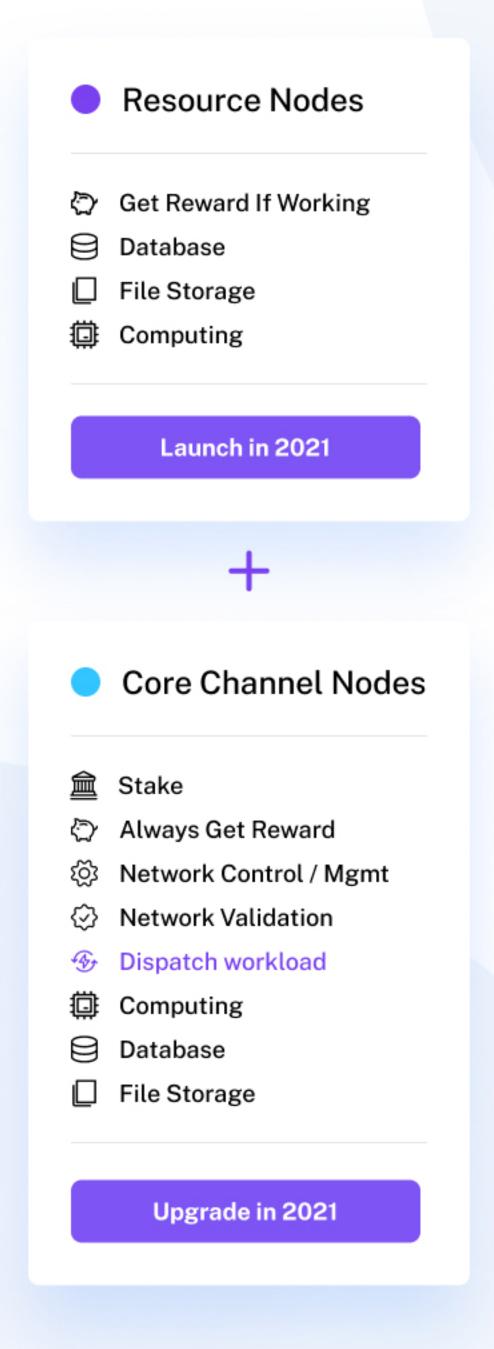
No need to manually resubmit them, nor adjust gaz, etc.

Onchain Fees

Final Phase

Onchain transactions are free for users as long as someone (dApp developer, user himself, protocol) incentivizes the storage







Sharding allows projects to create

their own dedicated cloud clusters.

nodes.

Channels enable sharding.