

L1 Blockchains & Decentralisation

Exploring the Web3 Ecosystem



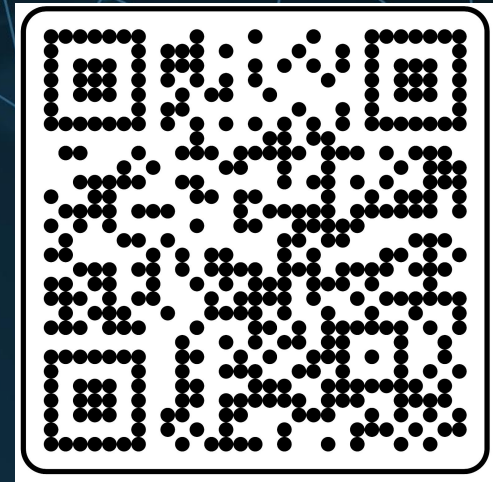
Hi



I'm Reet!



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Layer 0, Layer 1, Layer 2

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01

Why Decentralisation?

Why Decentralisation?

○ ——— ○
**Limitations of
Centralization**

○ ——— ○
**Advantages of
Decentralisation**

○ ——— ○
Web3 & World Change



02

Layer 0, Layer 1, Layer 2

Layer 0, Layer 1, Layer 2

○ ——— ○
Roles of Each Layer

○ ——— ○
Pros & Cons

○ ——— ○
Importance of Layer 2

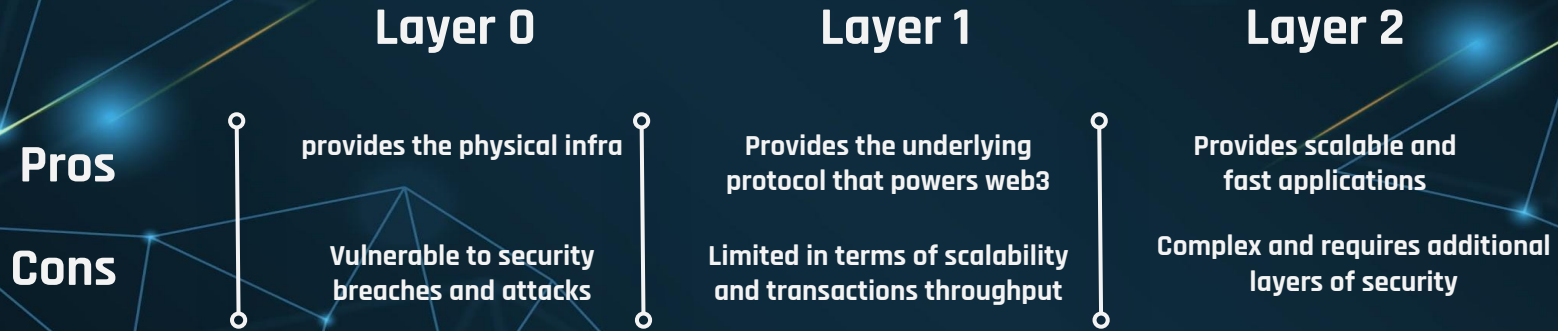
Roles of Each Layer

Layer 0
○ ——— ○
Physical Layer

Layer 1
○ ——— ○
Protocol Layer

Layer 2
○ ——— ○
Application Layer

Pros and Cons of each layer



Importance of Layer 2

- More efficient and cost-effective transactions
- Off-chain transactions
- Congestion on blockchain is reduced
- Increases tps
- Gas fees decreases



03

Barriers to Decentralisation

Barriers to Decentralisation

○ — ○
Current Barriers

○ — ○
Addressing Barriers

○ — ○
Community Building

Current Barriers

○ — ○
Scalability

○ — ○
Governance

○ — ○
Regulatory

Addressing Barriers

Scalability



L2s, sidechains

Governance



DAOs

Regulatory



Collaboration



04

Decentralized Storage

Arweave

- Arweave is a blockchain-based decentralized storage solution that provides permanent, tamper-proof storage for data and information.
- It uses a unique consensus mechanism called Proof of Access, which rewards users who store data for longer periods of time.
- Arweave is also designed to be cost-effective, with low storage fees and no bandwidth or egress fees.

IPFS (InterPlanetary File System)

- IPFS is a peer-to-peer protocol for decentralized file storage and sharing.
- It uses a content-addressed system, where files are identified by their content rather than their location.
- This allows for easy sharing and retrieval of files, even if the original host is offline.
- IPFS is also designed to be highly scalable, with no central point of failure and the ability to handle large amounts of data.

Arweave vs

Has its own blockchain with their own consensus SPoRA.

Used for permanent storage.

Cost of storage: 1 GB = 0.244 AR (~6.8\$) depends on AR price

IPFS

Not a blockchain, it is a P2P network like Bittorrent. Uses distributed hash tables.

Does not give permanent storage by default.

No transaction cost, need to pinning services like Infura, Pinata, Temporal or setup your own IPFS cluster on AWS

Thank You!

