■ SectoNet

Next Generation Decentralized Storage – Sector by Sector

Introduction

In today's digital age, data security and decentralization are crucial. Traditional storage providers such as Google Drive or Dropbox are centralized, making them prone to censorship, hacking, and single points of failure. SectoNet solves this with a fully decentralized, sector-by-sector encrypted storage system on Solana.

How SectoNet Works

1. Files are split into multiple smaller sectors.
2. Each sector is encrypted using AES and a user's public key.
3. Encrypted sectors are distributed across independent nodes.
4. No node ever holds the entire file, only encrypted fragments.
5. Users can reconstruct files only with their private keys.

Role of Nodes

- Store encrypted sectors.
- Provide Proof-of-Storage periodically.
- Earn rewards in tokens for uptime and space contribution.

Comparison with Traditional Storage

Feature	Google Drive/Dropbox	Filecoin	SectoNet
Decentralized	■	■	■
Encryption by Default	■	Partial	■ (sector-by-sector)
Single Point of Failure	■	■	■
Token Rewards	■	■	■
Recovery Guarantee	■	■	■ (multi-node resilience)

Tokenomics & Incentives

- Users pay with tokens to store files.
- Nodes receive tokens as rewards for storage and uptime.
- A portion of fees goes to governance and ecosystem development.

Vision & Roadmap

Phase 1: Core protocol development and pilot nodes.
Phase 2: Public launch on Solana mainnet.

Phase 3: Expansion of ecosystem and developer SDKs.
Phase 4: Global adoption with enterprise partnerships.