



CESS Network

The Decentralized Data Infrastructure

Episode 4: CESS Nodes & CESS Account Setup



<https://www.cess.network>



Course Logistics

Course Website: <https://course.cess.network/>

Episode 1 ----- CESS Network Introduction

Episode 2 ----- CESS Architecture & Key Technologies

Episode 3 ----- CESS Ecosystem and Applications

Episode 4 ----- CESS Nodes & CESS Account Setup

Episode 5 ----- Demo: Running a Consensus Node

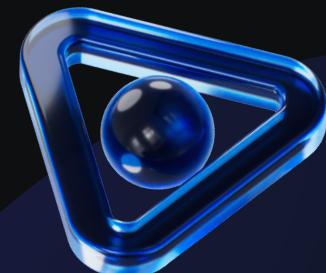
Episode 6 ----- Demo: Running a Storage Node

Episode 7 ----- CESS DeOSS and DeOSS REST API

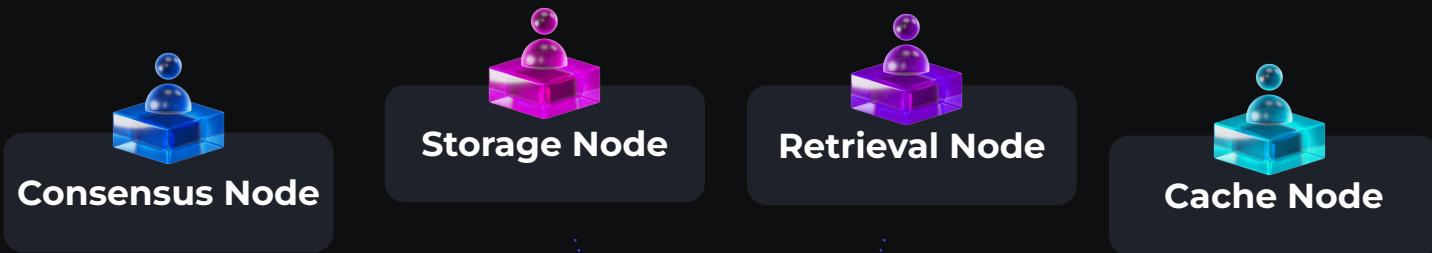
Episode 8 ----- dApp Development using ink! Smart Contract

Episode 9 ----- dApp Development using Solidity Smart Contract

Episode 10 ----- Building Custom Pallet



CESS Nodes



CESS Nodes: The Why?



Why be a CESS Node ?

- Utilize Idle Resource
- Environmental Friendly
- Profit Potential
- Low Barrier to Entry
- Enhance Network Security
- Community and Support

Why does the CESS Network require multiple Nodes ?

- Scalability and Performance
- Decentralization
- Optimized Resource Utilization
- Enhanced Security
- Flexibility for Participants
- Healthy and Competitive Ecosystem

CESS Nodes: Consensus Node



Incentives

- Earns rewards for validating transactions and block production.

Consensus Mechanism

- Participates in the consensus process, such as PoDR², PoS to generate storage challenge and secure the network.

Staking Requirements

- Needs to stake a 3 Mil CESS tokens to participate in the consensus process.

Governance Role

- Plays a significant role in network governance by voting on proposals and influencing the direction of the network.



CESS Nodes: Storage Node



Incentives

- Earns rewards for contributing storage resources and maintaining data integrity.

Proof of Storage

- Required to submit regular proofs (PoDR² and PoS) to verify that the data is still intact and accessible.

Staking Requirements

- Needs 4000 CESS Tokens / TB for Staking
- Requires Storage Devices

Security Measures

- Data is encrypted and sharded, reducing the risk of data breaches and increasing security.



CESS Nodes: Retrieval Node



Incentives

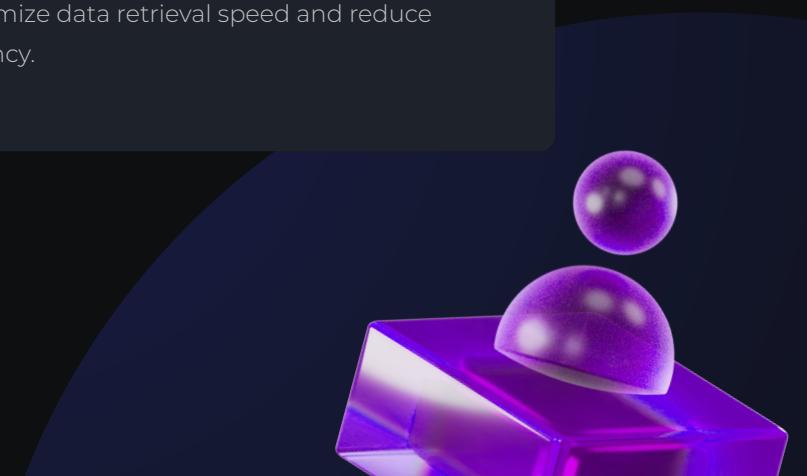
- Receives rewards for facilitating data access and retrieval services.

Data Accessibility

- Ensures that stored data can be efficiently retrieved by users upon request.

Performance Optimization

- Uses advanced algorithms (P2P, LBS, etc) to optimize data retrieval speed and reduce latency.



CESS Nodes: Cache Node



Incentives

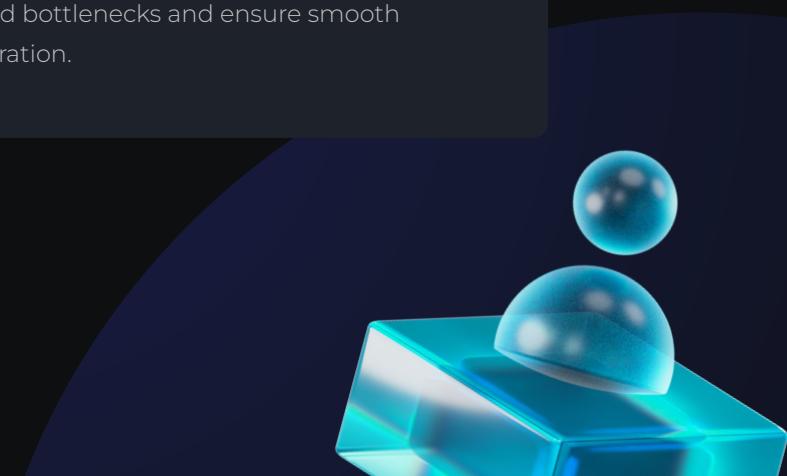
- Earns incentives for providing caching services and improving data access performance.

Role: Caching

- Stores frequently accessed data to improve retrieval times and overall network efficiency.

Purpose: Load Balancing

- Helps distribute network traffic efficiently to avoid bottlenecks and ensure smooth operation.



CESS Tokenomics



Allocation	Percentage	Amount	Release Cycle
Mining	Storage Nodes	30%	3,000,000,000
	Consensus Nodes	15%	1,500,000,000
	CD ² N Nodes	10%	1,000,000,000
	Influencer Nodes	10%	1,000,000,000
Team & Advisers	12.5%	1,250,000,000	Vesting: According to Sales Objectives
Community	10%	1,000,000,000	Vesting: 10% at TGE, 72 Month Linear Vest
Fundraising	10%	1,000,000,000	Vesting: 13% at TGE, 60 Month Linear Vest
Liquidity Management	2.5%	250,000,000	Vesting: 16.1% at TGE, 48 Month Linear Vest



Demo

CESS Wallet Account Setup





Demo: CESS Account Setup

Creating CESS Account & Transferring Tokens

Download [Polkadot.js extension](#) - Creating a CESS Wallet Account



Visiting [CESS Portal](#) - Connecting to CESS Testnet



Getting testnet tokens from [Testnet Faucet](#)



Prepare Multiple Wallet Accounts for CESS Nodes

- Staking/Stash Account
- Controller Account
- Earning Account



Thank you for watching

Please Join Our Community





CESS Network - Episode 4

CESS Nodes & CESS Account
Setup



<https://www.cess.network>

