



DECENTRALIZE

EVERYTHING

#ethoprotocol

 etho | ethoprotocol.com

ETHO Protocol White Paper

Version 2.0.0

Important Links

Official website

<https://ethoprotocol.com>

Official email

admin@ethoprotocol.com

Bitcointalk announcement

<https://bitcointalk.org/index.php?topic=3725742.0>

Github

<https://github.com/ether1project>

Explorers

<https://explorer.ethoprotocol.com>

<https://explorer1.ethoprotocol.com>

<https://explorer2.ethoprotocol.com>

Web wallet

<https://wallet.ethoprotocol.com>

Node dashboard

<https://nodes.ethoprotocol.com>

Network stats

<https://stats.ethoprotocol.com>

Upload portal

<https://uploads.ethoprotocol.com>

Documentation:

<https://docs.ethoprotocol.com/>

Abstract

The Etho Protocol aims to completely disrupt how information is shared and controlled on the internet. It aims to decentralize all aspects of its footprint, including

- (1) a community stakeholder, node-based governance system,
- (2) a distributed pow blockchain base layer with smart contracts
- (3) successive layer 2 solutions built on top of (2), providing services that greatly augment utility.

The first example of (3) is the Etho Protocol decentralized storage network, a global highly redundant file system.

Imagine a world where all content is completely held in the public domain, 100% immutable, and distributed across a completely decentralized node network.

Imagine an on-chain voting system that allows all participants to determine all aspects of the project's governance with complete transparency.

The idea of a completely decentralized and democratized internet is not only a utopian dream but is now fully achievable, through a united tribe of node operators, community members, and coin holders who enjoy the freedom and work hard in an atmosphere of non-enforced collaboration based on a shared passion for decentralization.



Disclosure

The Etho Protocol had no ICO or pre-sale, no pre-mining of any coins, or any other methods of obtaining coins before the main-net launch.

This document has been created to outline our vision and direction for this project and is meant to be read in conjunction with our website and other available media which can be found at the bottom of this document.

Nothing herein constitutes an offer to sell, or the solicitation of an offer to buy, any tokens, nor shall there be any offer, solicitation, or sale of anything in any jurisdiction in which such offer, solicitation, or sale would be unlawful. Although this document contains our current vision for the project, this vision will be ever evolving as blockchain technology is still in its infancy and constantly evolving itself. All aspects of the project are intended to be decentralized, and as such, no single person or entity should be able to control its direction.

The Problem

Free speech and anti-censorship are the cornerstones of any democracy but with the rise of de-platforming and online censorship, media platforms our society relies on are becoming more and more unreliable for the average user.

Free-flowing information and ideas are almost always catalysts for the next stages of societal evolution as well as exponential technological growth.

Online censorship today ranges from something as small as a single blocked tweet up to a full corporate website being banned if the messaging doesn't fit an individual platform's definition of proper

The Solution

Decentralize content & storage hosting, so no single entity has control over what is appropriate.

Utilize community and user consensus to moderate this decentrally stored content.

Create and maintain a closed-loop economy around steps one and two to encourage participation, reward contribution, and network utilization.




Network Functionality

The Etho Protocol is a decentralized network to its core and is built utilizing a fork of Ethereum, making it fully EVM compatible. This means that any application or solidity contract that can be deployed on Ethereum can be deployed using the Etho Protocol with the added benefit of being able to store decentralized data on a wider network build for immutability.

The consensus mechanism is Ethash POW (proof-of-work) and the network is powered by utilizing the native currency (ETHO). This currency will offer the incentive to both publicly contribute to the consensus mechanism along with incentivizing the deployment and operation of collateralized nodes to provide computational and storage resources to the network.

Each node deployed on the network will contribute resources to the decentralized storage network and provide security by maintaining the network state via blockchain. In return for deploying nodes and providing resources to the network, node operators will be rewarded

with a portion of each block mined by Ethash POW miners thus incentivizing and facilitating network growth.

		
<p>Decentralized content & storage network</p>	<p>Decentralized governance for content moderation</p>	<p>Economy built to reward participation and utilization</p>
<p>At the core, the Etho Protocol is built on top of an EVM (ethereum virtual machine) blockchain, utilizing a hybrid POW (proof-of-work) consensus mechanism and a network of community owned collateralized nodes which all contribute storage and bandwidth to the network.</p>	<p>Pure free-speech and anti-censorship comes at the cost of any piece of data being allowed on the network unchecked. We balance this with allowing collateralized node/network participants to moderate content based on on-chain decentralized voting. Governance participants are rewarded for their participation in the system.</p>	<p>All network participants are rewarded monetarily in our native coin (ETHO) for their contributions. Collateralized node owners and miners are all rewarded each block with a share of the block reward. Node owners also receive a reward for storing any decentralized data uploads.</p>

Network Specification

Consensus Algorithm: Ethash/Dagger (Proof-of-Work)

Target Block Time: 13 Seconds

Native Smart Contract Language: Solidity

Network ID: 1313114

Public RPC Server: <https://rpc.ethoprotocol.com>

Economic Policy

Monetary and economic policy for the network revolves around ultimately arriving at a perpetual emission of 1 ETHO per block. This milestone will be reached after the first 10 million blocks are mined and will result in a total coin circulation of just under 95 million ETHO by block 20 million. Between blocks 1 and 10 million, the reward will be reduced to reduce the overall emission of coins along with allocating a larger portion to node owners in order to further reward network participation and utilization. Allocating a larger percentage of the block reward to node owners is extremely important as time goes on because as network utilization grows, they will be providing an increased value to the network and network security.



	Block Height	Mining reward	Node reward	Treasury reward	Total reward	Bridge and dev wallet adjustment	Total circulation ETHO	Total circulation with 6.5% uncle ETHO
Period 1	0	10	2	1	13	0	0	0
2	1000000	8	2	1	11	0	13000000	13845000
3	2000000	6.4	2	1	9.4	0	24000000	25560000
4	2700000	5.6	2.8	1	9.4	0	30580000	32567700
5	3000000	4.5	2.6	1	8.1	0	33400000	35571000
6	3800000	2.4	2.4	1	5.8	0	39880000	42472200
7	4000000	1.8	1.9	1	4.7	0	41040000	43707600
8	5000000	1.25	1.4	0.8	3.45	0	45740000	48713100
9	6000000	0.8	1	0.65	2.45	0	49190000	52387350
10	7000000	0.6	0.8	0.5	1.9	0	51640000	54996600
11	8000000	10	0.65	0.35	11	0	53540000	57020100
12	8150000	0.3	0.65	0.35	1.3	0	55190000	58777350
13	8750000	0.3	0.65	0.35	1.3	22000000	77970000	83038050
14	9000000	0.3	0.5	0.25	1.05	0	78295000	83384175
15	10000000	0.3	0.5	0.2	1	0	79345000	84502425
16	11000000	0.3	0.55	0.15	1	0	80345000	85567425
17	12000000	0.3	0.55	0.15	1	0	81345000	86632425
18	13000000	0.3	0.55	0.15	1	0	82345000	87697425
19	14000000	0.3	0.55	0.15	1	0	83345000	88762425
20	15000000	0.3	0.55	0.15	1	0	84345000	89827425
21	16000000	0.3	0.55	0.15	1	0	85345000	90892425
22	17000000	0.3	0.55	0.15	1	0	86345000	91957425
23	18000000	0.3	0.55	0.15	1	0	87345000	93022425
24	19000000	0.3	0.55	0.15	1	0	88345000	94087425
25	20000000	0.3	0.55	0.15	1	0	89345000	95152425
	Infinity	0.3	0.55	0.15	1	0	Infinity	3% yearly inflation

Etho Protocol Nodes

Etho Protocol nodes are the backbone of the network. There are two major categories of nodes; mining nodes and nodes that contribute storage/bandwidth resources to the network. Both node types receive rewards for their network contributions.

Collateralized (non-mining) nodes maintain blockchain security, manage decentralized data/storage and give democratized control of the network to anyone who chooses to participate and deploy a node. For their contribution to the network, each of these nodes is rewarded a portion of the block reward along with a reward for hosting any decentralized data/content on the network. Node requirements, daily rewards, and how to deploy nodes can be seen at <https://nodes.ethoprotocol.com>

etho NODE NETWORK
WITH ETHOFS APPLICATION-SPECIFIC NODES

- SN SERVICE NODE**
 - Stores/Serves decentralized content on-demand
 - 5,000 ETHO TO DEPLOY**
- MN MASTER NODE**
 - Stores/Serves decentralized content on-demand
 - 15,000 ETHO TO DEPLOY**
- GN ETHOFS GATEWAY NODE**
 - Stores/Serves decentralized content on-demand
 - Provide HTTP & HTTPS entry point to ethofs content delivery network
 - 30,000 ETHO TO DEPLOY**

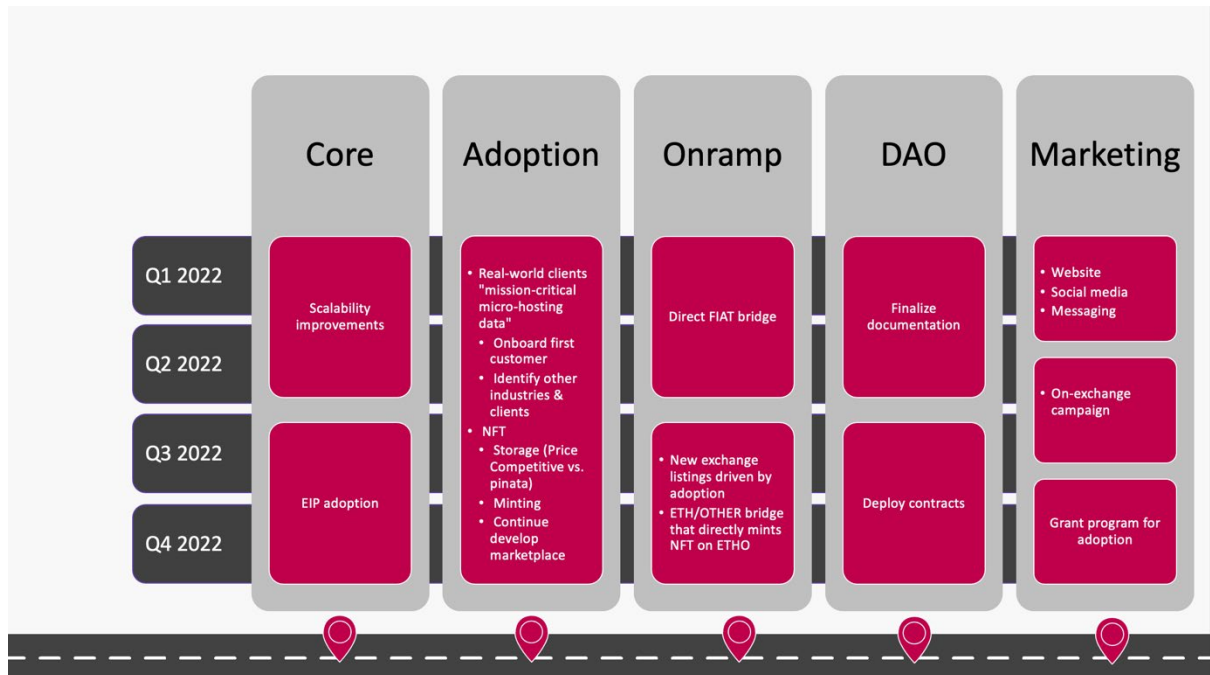
APPLICATION-SPECIFIC NODES

Etho Protocol Node Network/w ethoFS application-specific nodes called **Gateway Nodes**

*Gateway Nodes have a 98% uptime requirement
**Will also be eligible to participate in application (ethofs) revenue sharing

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General Roadmap



Social Media

Twitter

<https://twitter.com/ethoprotocol>

Discord

<https://discord.gg/MFn9Tmz>

Instagram

<https://www.instagram.com/ether1official/>

Facebook

<https://www.facebook.com/ethoprotocol>

Medium

<https://medium.com/@ethoprotocol>

YouTube

<https://www.youtube.com/c/EthoProtocol>

Reddit

<https://www.reddit.com/r/ethoprotocol/>

Telegram

https://t.me/Ether_1

Telegram Announcement

<https://t.me/joinchat/UyKQTaloSumjBC8Q>



The graphic features a dark purple background with a large, stylized 'SOCIAL' text in white. On the left, there is an image of an astronaut in a white spacesuit standing on a rocky surface. The 'etho protocol' logo is positioned to the left of the 'SOCIAL' text. Below the main title, three maroon-colored boxes provide details for Twitter, Discord, and Telegram. At the bottom right, the 'etho protocol' logo and the website 'ethoprotocol.com' are displayed.

Platform	Description	Members/Followers
Twitter	Our main communication channel Daily updates and highlights	20k followers
Discord	Our main support and interaction channel Developers and communication discussions	9.5k members
Telegram	General ETHO talk relayed to discord and back	3.8k members

Conclusion

We have identified a very complex issue plaguing our society today and this project aims to very directly address and fix this problem. By leveraging a great team, existing and new technologies, and the power of public consensus we will be able to change not only the way we store and access data but will fundamentally change how this data can and will be used. Special thanks to all community members who help us get close to our shared vision.