



Koi

Primer



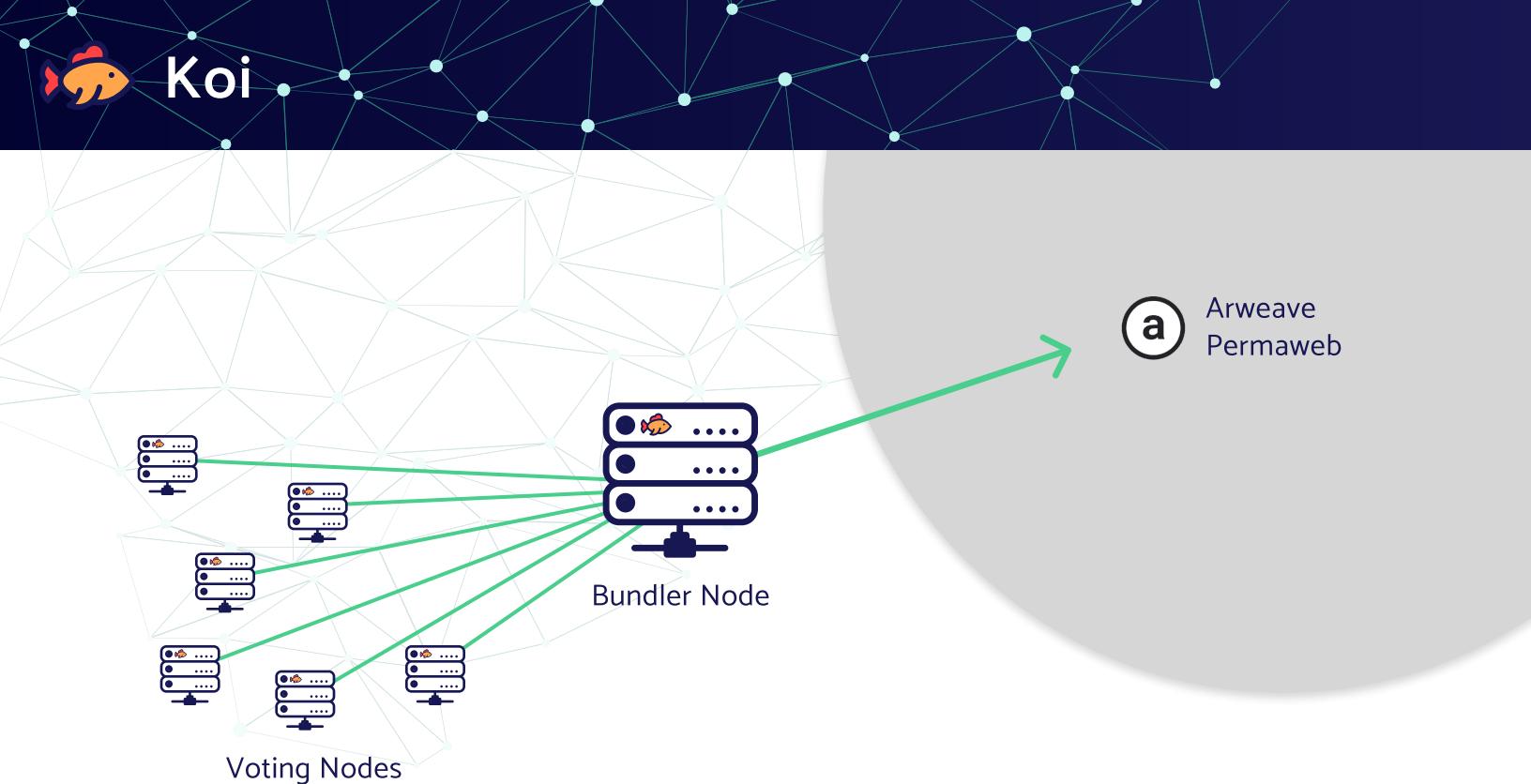
Koi

Incentivizing the open web

Decentralized infrastructure for web services requires two things: **robust incentives** for high quality content, and **scalable consensus** to support community participation. Many applications do not require fast transaction times, and are unnecessarily encumbered by the expensive infrastructure of Ethereum and similar networks.

How it works

Koi provides a scalable solution by building flexible side chains (“bundles”) on top of the Arweave permaweb. This infrastructure enables feeless interaction for voters and increases interoperability. The first application of this new ‘Gradual’ consensus process allows Koi to track and verify traffic (“attention”) across content gateways, which links token distribution to traffic volume, creating direct incentives for content creation.



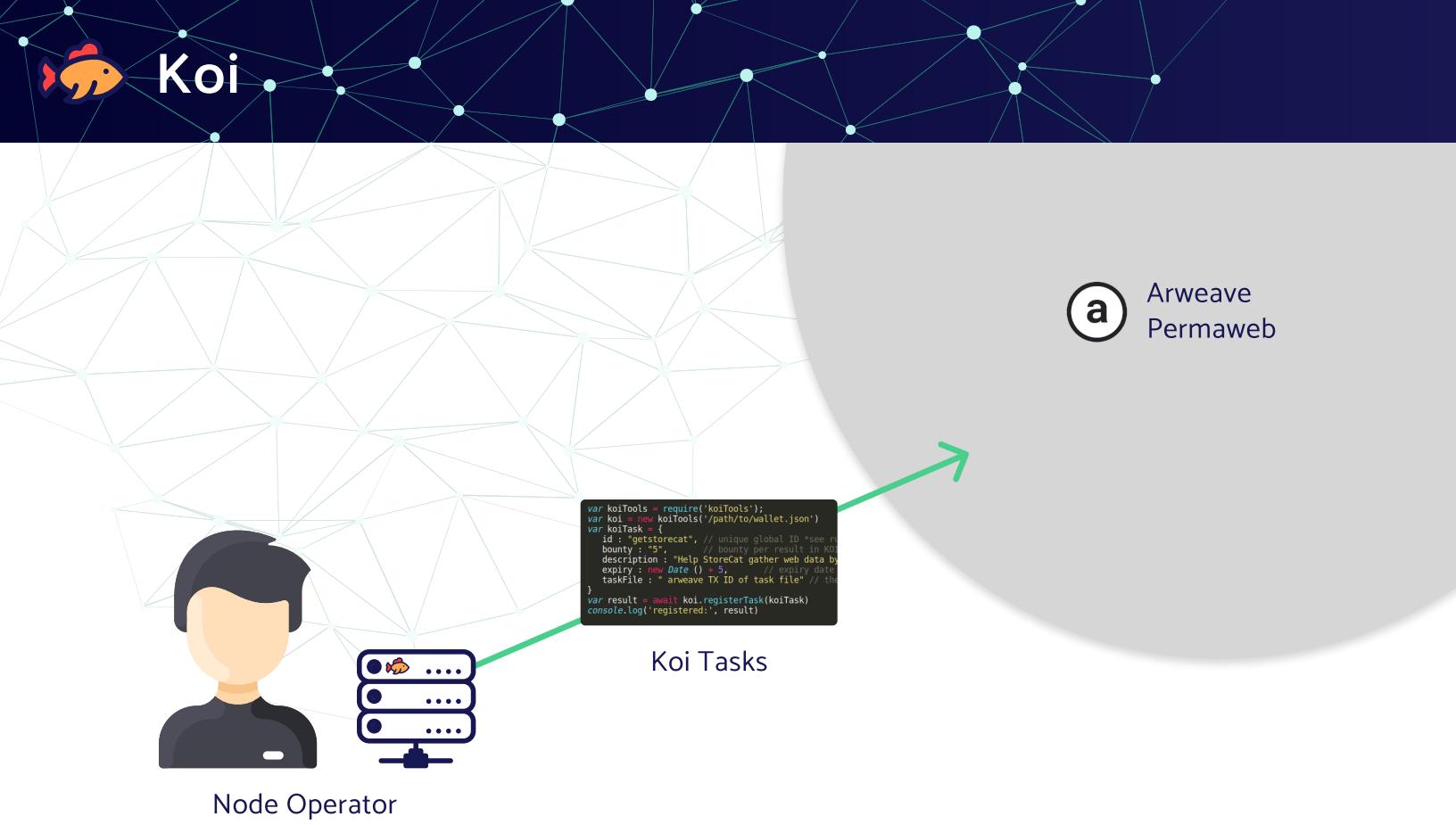
Technology

The KOI network is engineered to scale **independently** of transaction speed. Since transaction speed is not the basis for a sustainable and easily scalable network, KOI sidesteps these issues and creates a consensus mechanism to accommodate the data structures and volume needed to reach critical network mass.



Governance

The Koi Network is governed by token holders through a decentralized smart contract system. The longer a token holder stakes, the larger their voting power, ensuring incentives remain aligned for the long term. During the initial launch of the network, the Koi Foundation will provide guidance and lead technology development as necessary.



Running a Node

Koi nodes stake their tokens in order to participate in consensus activities (e.g. voting, slashing, and bundling) and to generate and store information to fulfill Koi Tasks (see page 5). Node operators are compensated for reliably completing Koi Tasks.

Staking and Rewards

The goal of the network's incentive model is to reward reliable participants. To ensure reliability, voting power is scaled to the time and amount staked. Whenever a node is discovered breaking the rules, other nodes vote to slash its stake. Rewards are distributed proportionately to each node's voting power, which encourages participants to stake as much as possible.

In addition to the 365,000 KOI minted annually, nodes can also earn rewards for completing Task bounties. Initially, the Koi Foundation will provide grants of up to 1,000,000 KOI each year to accelerate adoption and ensure node operators receive reasonable compensation.

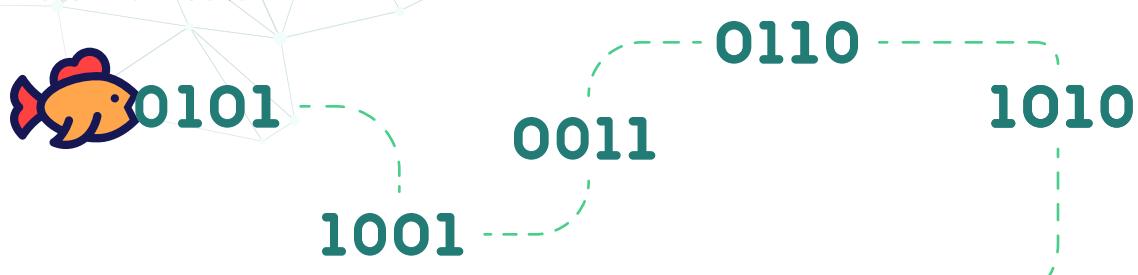


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Koi Tasks

Using the Koi Software Development Kit (SDK), anyone can access the network of Koi devices and request that they participate in a task game. These “Koi Tasks” are customizable and use the Koi smart contract as the base. Customization allows Task creators to specify conditions for node participation, which can allow creators to limit their task force however they’d like. Some examples of early Koi Tasks include web scraping, oracle services, reputation assessments, and attention proof verification.

I. Fetch raw data



II. Create Attestations



III. Store Permanently



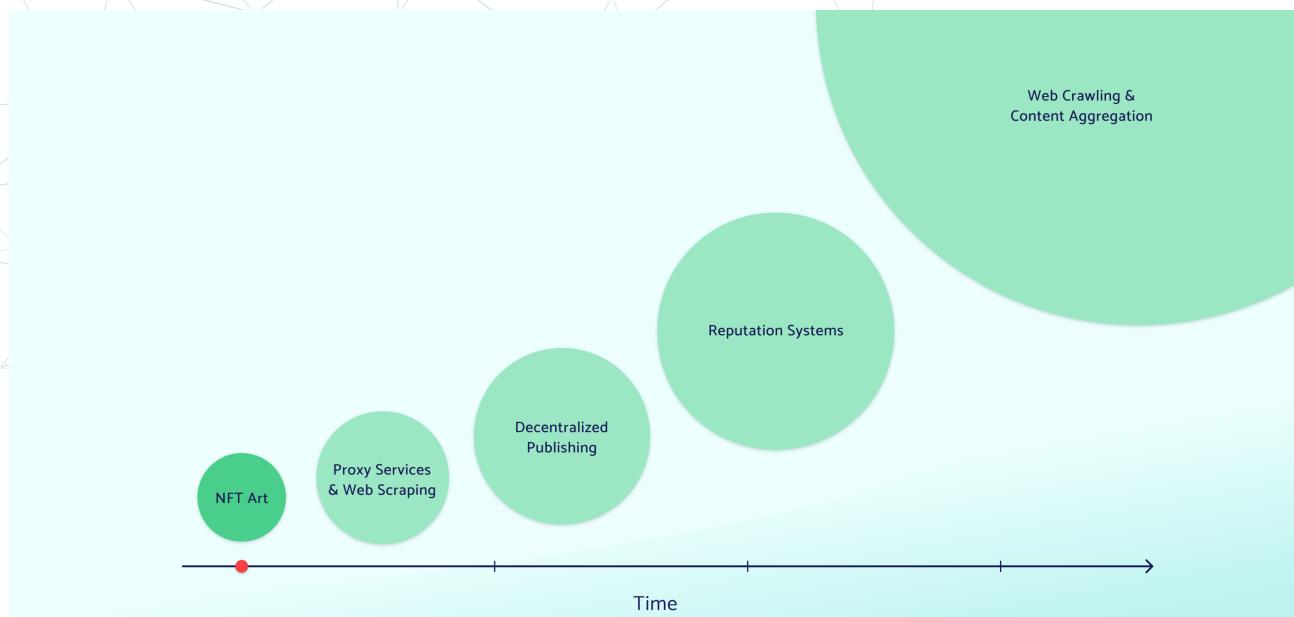
IV. State Transition





Koi

Opportunity



Koi is a protocol for decentralized web services which enables anyone to build highly scalable and completely immutable incentivised infrastructure. The core technology of tracking attention and building scalable consensus infrastructure creates significant performance improvements across multiple verticals.

Education

The Koi Protocol was founded by core team members from WeTeachBlockchain.org, Ivan On Tech, AltHash Education, and Arweave, and is working with developer communities around the world to develop strong onboarding tools to make it easy to use this new web infrastructure.





Koi

Our Partners



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