

## Golem Base: A New Foundation for Data Availability Layer

Golem Base is designed as a **Layer 2 network on Ethereum**, acting as a gateway to multiple **Layer 3 Database Chains (DB-Chains)**. Each DB-Chain functions as a **specialized data layer**, tailored for both Web2 and Web3 applications.

Built as an **open, trustless, permissionless, and serverless** platform, Golem Base is designed to **enable cost-efficient data management within Web3** while maintaining the familiar Web2 database interaction standards, such as query languages.

Read more in the [Golem Base Litepaper](#).

Although the concept of Golem Base originated within the **Golem Network**, an **independent team** is leading its development.

## The Origins of Golem Base Recognizing the Need for a Bigger Leap

In 2024, Golem Network's management team recognized that **scaling DePIN** solutions required overcoming a fundamental challenge: **developing the essential tools and technology for building marketplaces for digital resources**. This level of progress could not be achieved through incremental improvements to Golem Network's platform alone - it required a **major advancement**.

That same year, the **Clan project** joined the **Golem Ecosystem Fund**. Since Clan's contributors were actively involved in the **Nix community**, this collaboration introduced Golem to a broader network of Nix-based developers.

By **September 2024**, while conceptualizing a new marketplace for Golem Network, the organization uncovered key insight: **not only Golem, but many (if not all) DePIN projects, require a fast, extendable, reliable, permissionless, and trustless Data Availability Layer** - a need that existing solutions failed to adequately address.

This realization **sparked the idea for Golem Base**, leading to its initial definition.

## Forming a Strategic Partnership with Numtide

During **Devcon 2024**, Golem Network was approached by **Numtide**, a team renowned within the Nix community, inquiring about the **technical challenges Golem was facing at the time** and exploring whether they could contribute.

After several workshops and discussions, **Numtide was selected for its strong execution capabilities and was granted research and development funding**. It was then decided that Golem Base would be developed together with Numtide as a **standalone initiative, separate from Golem's existing codebase**.

Once launched, **Golem Base will be the foundational layer** for the **new Golem Network marketplace**.

## Beyond Golem Network: Expanding the Use Cases of Golem Base

Alongside its role in the **Golem Network**, additional **partnerships and integrations** are being explored to showcase **the full potential of Golem Base**.

**The idea behind Golem Base** offers solutions for **challenges across both Web2 and Web3**, making it a highly **adaptable framework** - far more than just the backbone of digital marketplaces.

While it will provide a **solid foundation for Golem Network's ecosystem**, Golem Base is designed to operate **independently**, offering a **robust Data Availability Layer** for **Web2 and Web3**.