

AutoSwarm NFTs

Boost your NFT LifeSpan on Swarm

26th September 2023

Empowering Eternal Digital Ownership

- **What ?**

- Ensure **continuous availability of NFTs** stored on Swarm, including both metadata and content, for as long as there is ongoing interest in the NFT.

- **Why ?**

- Paying for **eternal archival upfront is both impractical and lacks meaning** in the context of a 5, 10, or longer-year timeframe....

- **How ?**

- Enable NFTs to **automatically extends** their storage duration (TopUp). Anyone can contribute via Bzz donations or via a small percentage on NFT transfers.

AutoSwarm solution

Thanks to ERC6561, any NFT can own tokens, via a unique SmartAccount linked to the NFT.

After transfer of the NFT, these **tokens are still linked to the NFT**, at the disposal of the new NFT owner.

So, anyone can send some Bzz tokens to the NFT SmartAccount they are interested in, and then the **NFT can auto-pay for it's own storage** when needed.

AutoSwarm PoC

AutoSwarms NFTs **Proof of Concept** (PoC) developped by **Kredeum**

SetUp:

- On **Gnosis** chain: existing BzzToken and PostageStamp Smartcontracts
- On Sepolia testnet: with new PostageStamp under development
- **NFT mint on Swarm** with both metadata and image on Swarm (with a unique Batch of Stamps on a dedicated node)
- **ToPup the NFT** is the same as ToPup the Batch of Stamps (in this PoC)
- « **AutoSwarm Service** » : One Page App (with one NFT at a time in this PoC)
- Anyone can TopUp the NFT for One Year more, **updating lifespan** (or TimeToLeave / TTL) of the Swarm NFT storage

