

Agent Zero

Project Paper

Your Open-Source AI Companion.
Limitless, Transparent, and Entirely Yours.

Jan Tomášek, February 2025
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Project Overview

What is Agent Zero?

Agent Zero (A0) is a next-generation AI assistant running in its own virtual computer, fully self-contained within a Docker environment. Unlike traditional AI chatbots, A0 has full access to a Linux system, enabling it to write and execute code, install and use software, browse the web, and much more.

A0 isn't just a tool—it's an autonomous, evolving digital colleague. Its capabilities are not predefined; instead, it can create and adapt new tools on the fly, allowing for limitless customization and growth. This makes A0 one of a kind—an all-in-one, self-improving AI companion.

Explore Agent Zero on GitHub [https://github.com/agent0ai/agent-zero]

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Mission: AI Without Limits

Agent Zero was founded in March 2024 by Jan Tomášek [https://www.linkedin.com/in/jan-tomasek/] as an experiment: Could an AI autonomously write, execute, and refine its own code? The answer was a resounding yes, and Agent Zero quickly evolved into something far greater.

Today, its mission is clear: bring balance to AI by giving everyone the ability to run their own autonomous AI agents—free from restrictions, centralized control, or corporate oversight.

I'm very proud of making my way with Agent Zero to the Linux Foundation's Decentralization and AI paper [https://www.linuxfoundation.org/research/decentralized-internet]

Free by Nature, Open by Design

Agent Zero isn't just open-source—it's open by design. Every aspect of the framework is customizable to fit your needs.

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- Fully Extensible: Modify behaviors, add tools, and integrate any LLM—local or cloud-based.
- Your AI, Your Rules: No imposed restrictions. Once you download Agent Zero, it's truly yours.
- Community-Powered: Developed transparently, with contributions from an open-source community passionate about democratizing AI.
- No limitations. No gatekeepers. Just raw AI power in your hands.

Resources

- **Docs**
  - Official Documentation [https://github.com/agent0ai/agent-zero/tree/main/docs]
  - Installation [https://github.com/agent0ai/agent-zero/blob/main/docs/installation.md]
- **Youtubers**
  - Agent Zero YT Channel Agent Zero YT Channel [https://www.youtube.com/@AgentZeroFW]
  - David Ondrej: This 100% automatic AI Agent can do anything David Ondrej: This 100% automatic AI Agent can do anything [https://www.youtube.com/watch?v=_Pionjv4hGc]
  - World of AI: Autonomous AI Agent Framework Can DO ANYTHING! World of AI: Autonomous AI Agent Framework Can DO ANYTHING! [https://www.youtube.com/watch?v=mm4g_BaNZu0]
  - Josh Pocock: Meet Agent Zero AI 🤖 Automatic, Transparent, & Customizable Josh Pocock: Meet Agent Zero AI 🤖 Automatic, Transparent, & Customizable [https://www.youtube.com/watch?v=zvG0BNopxFs]
- **Mentions of A0**
  - Linux Foundation: Decentralized Internet [https://www.linuxfoundation.org/research/decentralized-internet]
  - Wallace Rogers: The New Frontier in Agentic AI Frameworks Wallace Rogers: The New Frontier in Agentic AI Frameworks [https://www.youtube.com/watch?v=zvG0BNopxFs]
  - Agent&YOU: What is Agent Zero? A quick start guide [https://agentandyou.substack.com/p/what-is-agent-zero-a-quick-start]

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Features

Virtual computer

Agent Zero isn't just an AI—it's an autonomous system running inside its own virtual Linux environment via Docker. This isolation ensures maximum security, allowing A0 to perform advanced tasks without exposing your host system to risk and gives A0 the benefit of running 24/7 in a standardized and well-known environment. It's your own self-hosted AI powerhouse, ready to execute and automate on demand.

Code Execution

A0 operates with complete freedom, dynamically installing and running the tools it needs—no predefined limitations. Whether it's writing scripts, automating tasks, processing data, or managing

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servers, it can execute Python, Node.js, Bash, or any other language it acquires on the fly. With the entire open-source ecosystem at its disposal, A0 builds and adapts its environment in real-time, all within a secure, isolated sandbox.

Web browser

Agent Zero comes with an integrated open-source browser, powered by browser-use [https://github.com/browser-use/browser-use], a direct competitor to OpenAI's Operator. It can extract information, interact with dynamic websites, and automate web tasks with full control. Whether gathering data, filling out forms, or navigating complex pages, A0 operates independently—just like a user, but fully automated and always in sync with your goals.

Multi-Agent Cooperation

Why settle for one AI when you can have many? Agent Zero can spawn subordinate agents, distributing complex tasks across multiple specialized AI units. From research to automation, each agent collaborates seamlessly—working like a team of digital specialists to get the job done faster and smarter.

Memory

A0 goes beyond simple recall—it remembers, organizes, and adapts. Its advanced context window management ensures even extremely long conversations remain coherent and efficient, while its hybrid memory system categorizes information into facts, solutions, and behavioral adjustments. Whether recalling past discussions, refining its approach, or adapting to new instructions, A0 retains what matters—so you never have to repeat yourself.

Search engine

Agent Zero integrates SearXNG [https://searxng.org/], a fully private, self-hosted search engine, eliminating the need for corporate-controlled AI search tools. Get real-time web data without tracking, censorship, or reliance on Big Tech—your queries stay yours.

A0T Token

Direct sponsorship & decentralized governance.

Purpose

The primary goal of A0T was to secure funding for the continued development of Agent Zero. Previously, no developers were paid for their work on A0, and this token provides a way to sustain and expand the project without resorting to monetization or external control.

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The second goal is to establish community governance. A0T is not just a token—it is designed to support decentralized applications, allowing holders to participate in decision-making through voting and locking mechanisms.

Not a meme coin! By holding A0T, you are securing your place in Agent Zero's future, ensuring that it remains open, free, and community-driven.

Risk notice: Token value can be highly volatile, may drop to zero, and is not covered by any guarantee or compensation scheme.

Distribution

The initial offering took place in March 2025. All of one million A0T tokens were minted and are now in circulation.

Decentralized Token Distribution

Agent Zero's token distribution was fully decentralized and managed by the smart contract itself. There was no pre-mine, pre-sale, or airdrops, ensuring fair and transparent access for everyone.

Token Purchase

Tokens were purchased directly from the smart contract through this website. Upon purchase:

- Tokens were minted by the contract and transferred to the buyer's wallet.
- The initial token price was set at .
- With each purchase, the price increased by of base price (not current or initial price) per 1 ETH spent.

Price Adjustment Mechanism

The price increase was factored into the purchase, meaning buyer paid an average between the current price and the new price. This ensured:

- No advantage or disadvantage in splitting large purchases into smaller ones.
- Balanced distribution, preventing early large purchases from dominating the supply.

Example Scenario

Imagine purchasing ETH worth of A0T tokens when current price was per token. After your purchase, the price increased by x base price () to . You would receive tokens at an average price between and ~ ETH = , ensuring a balanced distribution regardless of the purchase size.

Total Supply

The total token supply is hard capped at tokens.

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Funding the Project

ETH collected from token purchases remained in the contract until withdrawn by the project owner to fund Agent Zero's development. To maintain trust and integrity, the smart contract enforced a burning pool mechanism.

Burning pool is a smart contract variable with initial value covering regular withdrawal needs of the project. Burning pool decreases with each ETH withdrawal and increases by burning tokens. When withdrawing ETH, the burning pool was decreased by the amount of A0T tokens corresponding to the withdrawal amount and current minting price.

This mechanism prevented the collected ETH from being reused to purchase more A0T tokens by the project owner.

Minting price simulation

The following table shows simulated stages of the contract. First column shows total ETH spent by all participants, followed by the corresponding token supply and price per token. Last column shows how many tokens does the contract owner need to burn to withdraw all ETH from the contract.

ETH spent	Token Supply	Price per Token	Tokens to burn

Long-Term Sustainability

To ensure Agent Zero remains a continuously funded, evolving project:

- The system was designed to accommodate new participants at any stage, ensuring ongoing opportunities for community involvement.
- A supply limit variable is present in the smart contract to enable closing the initial offering after 360 days if the supply limit is not reached.
- This approach ensures fairness, preventing early adopters from monopolizing the supply while still supporting the project's growth.

Specifications

Ethereum

A0T is an ERC20 token launching on Ethereum's BASE Layer 2, leveraging Ethereum's decentralization, maturity, and deep native token liquidity. BASE provides scalability and ease of use with Coinbase while remaining fully anchored to Ethereum's security and ecosystem.

Ethereum L2 Details

Token Name
Token Symbol

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Token Contract Address
Signatures Contract Address
Chain Name
Chain ID
Energy Consumption per Transaction
<0.1 Wh per transaction (Proof-of-Stake)

Source code

The A0T smart contract is fully open-source, simple, and transparent. Every line of code is structured and well-commented to ensure clarity and security, allowing anyone to review, audit, and verify its integrity.

There are no hidden mechanisms, no unnecessary complexity—just a straightforward, fair, and functional design that aligns with Agent Zero's principles of openness and decentralization.

Explained source [https://agent-zero.ai/?modal=contract-source]

Community Platform

A decentralized ecosystem built around A0T

Our community platform is being built to enable true decentralized governance, identity management, and a foundation for future applications. A0T will serve as both a governance token and a utility token, powering a range of off-chain applications that leverage blockchain for validation, locking, and secure proof ledgers. This ensures flexibility and performance while maintaining transparency and trust.

Decentralized Governance

A0T holders will have direct influence over Agent Zero's future through an open, stake-based governance system. Community proposals can be created, debated, and voted on with tokens staked to ensure authentic participation and prevent manipulation. Blockchain records will act as a tamper-proof ledger for all decisions, ensuring transparency while keeping voting mechanisms efficient and scalable.

On-Chain Identity

The identity system will allow users to link their blockchain address to a unique nickname, making interactions within the ecosystem more intuitive and secure. This decentralized identity framework can be used for governance, locking, and authentication within off-chain applications, ensuring trust without requiring centralized control. Users can maintain anonymity while proving ownership and participation on the blockchain.

Future Applications

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A0T is designed to extend far beyond governance and identity. Future applications will run off-chain for efficiency but will utilize blockchain for validation, locking, and proof-of-record. This allows for decentralized AI services, secure reputation systems, verifiable knowledge-sharing platforms, and other innovative use cases. By combining the best of both on-chain security and off-chain flexibility, the Agent Zero ecosystem can scale to meet new demands without compromising trust.

Contacts

Resources and community links

For more information about Agent Zero, explore our links below to stay updated, participate in discussions, and contribute to the project's development.

- Website [https://agent-zero.ai]
- GitHub [https://github.com/agent0ai/agent-zero]
- Warpcast [https://warpcast.com/agent-zero]
- LinkedIn [https://www.linkedin.com/in/jan-tomasek]
- Discord [https://discord.gg/B8KZKNsPpj]
- YouTube [https://www.youtube.com/@AgentZeroFW]
- Skool [https://www.skool.com/agent-zero]

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