MCP SERVER | NO CODE | CLOUD HOSTED

DeBank DeFi Wallet Tracker MCP for AI Agents

Analyze total portfolio value and cross-chain asset holdings

DeBank (DeFi Wallet Tracker) gives your AI client deep access to complex DeFi data. Track total balances, analyze specific protocol positions, monitor token history across multiple chains, and review detailed transaction movements without opening a single block explorer.

A+ Quality Score 98.33/100

defi | wallet-tracker | portfolio-management | web3 | on-chain-data

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vinkius.com/mcp/debank-defi-wallet-tracker

SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

DeBank (DeFi Wallet Tracker) MCP

24 tools available
Cloud-hosted on Vinkius

This MCP connects your AI agent directly to the vast, live data of the decentralized finance ecosystem. Instead of manually jumping between dashboards or checking five different block explorers just to get an overview, your AI client handles the heavy lifting. You can ask it to pull total balances from any address, check historical token prices, or even estimate outcomes before you execute a transfer. It lets you analyze complex protocol positions and list all supported DeFi protocols—all through natural conversation.

When you connect DeBank via Vinkius, your AI acts like having a personal crypto analyst on demand. You get instant visibility into everything from gas market fluctuations to user authorization lists, turning raw blockchain data into clear, actionable insights.

Core Capabilities

01 — Analyze wallet balances and usage

Retrieves the total value of an address's holdings and lists all chains that have been used for transactions.

02 — Map protocol positions

Shows complex details about a user's involvement with specific DeFi protocols, listing their current collateralized positions.

03 — Track token price history

Fetches historical pricing data for any given token to help analyze market movement and value changes over time.

04 — Explain blockchain transactions

Takes a transaction hash and provides plain English explanations of exactly what happened on the chain, detailing all involved contracts and actions.

05 — List DeFi protocols on supported chains

Retrieves comprehensive lists of known DeFi applications and protocols across various blockchain networks.

06 — Review wallet security permissions

Lists all authorized tokens or NFTs that a wallet has granted permission to other smart contracts, helping manage exposure.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/debank-defi-wallet-tracker** — connect your AI agent in three steps.

01 First, subscribe to this MCP and provide your DeBank Cloud Access Key.

02 Next, direct any query—like 'What are the top holders of ETH on Polygon?'—to your AI client.

03 Finally, the MCP processes the request using its specialized tools and returns structured, analyzed data directly to your chat interface.

The bottom line is: you tell your AI what financial insight you need, and it executes complex, multi-step queries across the entire DeFi ecosystem for you.

Built For

This MCP is built for crypto analysts and developers who spend too much time switching between dozen dashboards. If your job involves understanding asset flow or tracking protocol health across multiple chains, this tool saves hours of manual data aggregation.

DeFi Trader

Uses the MCP to quickly check current positions and total balances across dozens of protocols without leaving their primary workflow.

Web3 Developer

Integrates the MCP into coding environments to analyze token contracts, gas prices, and transaction logic directly from an IDE.

Crypto Researcher

Aggregates data on protocol growth, token distribution, and historical pricing via simple prompts for market research reports.

What Changes When You Connect

01 Understand your full crypto exposure instantly. Use get_user_total_balance to see the aggregated dollar value of a wallet across all supported chains, eliminating manual summation.

02 Gain deep protocol insights with get_user_protocol_positions. Instead of guessing where assets are locked up, you view precise details on collateralized positions within specific DeFi apps.

03 Analyze market risk by checking security permissions. Run get_user_token_authorized_list to audit exactly which tokens and NFTs have granted spending rights, managing potential exposure.

04 Understand transaction impacts before committing funds. Use pre_exec_tx to simulate a transfer or swap and see the estimated outcomes and gas costs without risking real capital.

05 Benchmark asset performance historically. Run get_token_history_price anytime you need to understand how an asset's value changed, making it perfect for research reports.

06 Simplify complex data retrieval. Use list_all_protocols to get a full directory of every supported DeFi app, helping you map out the entire market landscape.

Real-World Applications

Auditing all active protocol positions

A researcher needs to know if a wallet is over-leveraged. They ask their agent to run get_user_all_complex_protocol_list, instantly getting a cross-chain view of every DeFi position without needing specialized dashboard access.

Verifying transaction costs and outcomes

A trader wants to send funds but isn't sure about the gas cost or if the contract will fail. They use pre_exec_tx, which simulates the swap, providing an accurate estimate of the fees and final balance before they spend any money.

Mapping token ownership concentration

A quant wants to assess market risk for a new asset. They ask the agent to run get_token_top_holders, instantly identifying the largest wallets holding that token across all networks.

Getting an overview of wallet activity

An analyst needs a quick snapshot of where funds are. They prompt for 'total balance and used chains,' triggering get_user_total_balance and get_user_used_chain_list to deliver a single, cohesive report.

Patterns to Avoid

Assuming a token's value is current

✗ AVOID

Checking an asset price on one dashboard only to find the real-time cost or historical context was missed. This leads to bad trading decisions.

✓ INSTEAD

Always use get_token_history_price and list_tokens_by_ids together. This combo ensures you see both the current data and a full picture of how its value has moved over time.

Ignoring contract permissions

✗ AVOID

Sending funds to a wallet without checking if that wallet actually had authorization to spend those tokens, leading to failed transactions.

✓ INSTEAD

Before any transfer or complex action, run get_user_token_authorized_list. This confirms the necessary spending rights are in place and prevents costly errors.

Treating blockchain data as simple text

✗ AVOID

Asking an agent to 'list all protocols' without specifying chains or purpose, resulting in a massive, unorganized list of unusable information.

✓ INSTEAD

Start by using list_chains to narrow down the scope. Then run list_all_protocols, directing your AI client to focus only on the protocols relevant to that specific chain.

The Right Fit

Use this MCP if your analysis requires deep, cross-chain visibility into DeFi positions, token flows, or transaction mechanics. It excels when you need to synthesize data from multiple sources (balances + history + protocol status) into one answer. Don't use it if you simply need a basic fiat conversion rate; general currency APIs are fine for that. Similarly, don't rely on this MCP just for reading public contract code—it tracks *usage* and *positions*, not raw source code analysis. If your task is limited to checking only the current balance of one single asset across one chain, a simple wallet API might suffice. But if you need context—like knowing which protocols contributed to that balance or what historical gas costs were—this MCP is required.

DeBank DeFi Wallet Tracker: Analyzing Complex Protocol Positions

Today, tracking your true exposure in decentralized finance means opening a dozen tabs. You check your wallet dashboard for total balance, then jump to PolygonScan to see if that balance is locked up in a yield farm, then open Uniswap to verify the pool details, and finally copy-paste transaction hashes into an explainer tool just to know what happened. It's tedious, error-prone, and impossible to do quickly.

With this MCP, you tell your AI agent: 'Show me all my complex protocol positions.' The system pulls everything together using get_user_protocol_positions. You don't see a jumble of tabs; you get one structured report detailing exactly where every dollar is staked, locked, or utilized across multiple protocols.

DeBank DeFi Wallet Tracker: Monitoring Cross-Chain Asset Holdings

Manually monitoring asset holdings requires logging into different chains for each check. You might forget to check your activity on Arbitrum, or you might spend hours compiling a list of all the distinct networks involved in your portfolio movements.

This MCP eliminates that blind spot. By using get_user_all_complex_protocol_list and get_user_used_chain_list, your AI client aggregates every single chain activity into one comprehensive view. Your agent acts as a unified ledger, giving you total clarity on your digital footprint.

DeBank (DeFi Wallet Tracker) with 24 On-Chain Data Tools for Analytics

Analyze transaction data, track token history, manage protocol positions, and monitor gas fees using these specialized tools.

#	TOOL	DESCRIPTION
01	explain_tx	Provides a plain English breakdown of what happened during a specific blockchain transaction.
02	get_account_units	Checks the current usage and limits for API account units.
03	get_chain	Fetches basic information about a specific blockchain network.
04	get_gas_market	Retrieves the current gas prices and market data for transaction fees.
05	get_pool	Gets detailed information about a specific liquidity pool in DeFi.
06	get_protocol	Retrieves comprehensive details and metrics for a single DeFi protocol.
07	get_token_history_price	Fetches the historical price data for any specified token over time.
08	get_token	Retrieves core information, including contract details, for a specific crypto token.
09	get_token_top_holders	Identifies and lists the wallet addresses that hold the largest amounts of a given token.
10	get_user_all_complex_protocol_list	Lists all complex protocol positions held by a user across every supported chain.
11	get_user_complex_protocol_list	Retrieves the list of complex protocols and positions for a user on a single, specified blockchain network.
12	get_user_history_list	Pulls a detailed chronological list of all transactions associated with a specific wallet address.
13	get_user_nft_authorized_list	Lists the NFT collections and smart contracts that have been granted spending permissions by the user's wallet.

#	TOOL	DESCRIPTION
14	`get_user_protocol_positions`	Shows the current, detailed positions a user holds within various DeFi protocols.
15	`get_user_token_authorized_list`	Displays which specific tokens have been granted authorization or spending rights to external contracts by the user.
16	`get_user_token_list`	Retrieves a complete list of all token types currently held in the user's wallet.
17	`get_user_total_balance`	Calculates and returns the aggregated total fiat-equivalent balance across all assets in the specified wallet.
18	`get_user_used_chain_list`	Determines which blockchain networks a user's wallet has actively transacted on.
19	`list_all_protocols`	Retrieves an exhaustive list of all supported DeFi protocols across every connected chain.
20	`list_app_protocols`	Gets a categorized list of application-specific DeFi protocol information.
21	`list_chains`	Provides a complete, current list of all blockchains supported by the MCP.
22	`list_protocols`	Retrieves general, non-user-specific information about available DeFi protocols.
23	`list_tokens_by_ids`	Lists detailed information for multiple crypto tokens using their contract IDs.
24	`pre_exec_tx`	Simulates a transaction before execution to estimate the final outcomes, costs, and state changes.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U What was the largest token transfer to my wallet last month and how did it affect my overall balance?

Wallet Activity Summary

The biggest movement was a deposit of 50 ETH on Ethereum. This transaction, recorded on Oct 12th, increased your total balance by $80,000 USD.

- **Transaction Type:** Incoming Transfer (ETH)
- **Amount:** 50 ETH
- **Estimated Value (Oct 12):** ~$80,000

You can see a full list of all recent deposits and withdrawals by running the history report.

U I want to send funds but I need to know if there are better protocols for this token on other chains.

Token Analysis: USDC

USDC is widely supported. While you're currently focused on Ethereum, here are three major alternatives/protocols running it:

1. **Polygon:** Liquidity Pool (Get pool info available)
2. **Arbitrum:** Lending Platform (Aave V3 compatible)
3. **BSC:** Top Holder Concentration (Check top holders for risk assessment)

It's smart to check multiple chains before committing assets.

U What is the current gas price and what are my total holdings across all networks?

Live Market & Portfolio Snapshot

- **Current Gas Price (Ethereum):** 25 Gwei (Source: get_gas_market)
- **Total Wallet Balance:** $1.2M USD (Includes ETH, stablecoins, and staked assets).
- **Active Chains Used:** Ethereum, Polygon, Arbitrum, Optimism

Everything is indexed. Need a token breakdown for any specific chain?

Frequently Asked Questions

01 **How does the DeBank DeFi Wallet Tracker help me see my total crypto balance?**

It aggregates your holdings into one single number, regardless of which blockchain network or how many different protocols you use. It gives you a unified view of your entire portfolio value in USD.

02 **Can the DeBank DeFi Wallet Tracker track my token positions across multiple chains?**

Yes, it's designed for that. You can get detailed reports on where assets are staked or locked up by running complex protocol lists across every connected chain.

03 **Is the DeBank DeFi Wallet Tracker good for checking transaction history?**

It provides a structured, readable breakdown of your entire wallet history. Instead of raw block data, you get clear explanations of what each transaction actually accomplished on-chain.

04 **Does this MCP help me understand crypto risk and security? (DeBank DeFi Wallet Tracker)**

Absolutely. You can audit your wallet's permissions by listing authorized tokens or NFTs, letting you know exactly what smart contracts have permission to spend your assets.

05 **What if I want to analyze token price changes over time?**

You simply request a historical price check for any token. The MCP fetches the necessary data so you can graph its value, making it perfect for market research or tax reporting.

Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"debank-defi-wallet-tracker": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

DeBank (DeFi Wallet Tracker) is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

INDEPENDENT PLATFORM DISCLAIMER

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DOCUMENT INFORMATION

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Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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