MCP SERVER | NO CODE | CLOUD HOSTED

Nansen (Blockchain Analytics) MCP

Trace Smart Money and On-Chain Capital Flows

Nansen (Blockchain Analytics) provides deep on-chain insights right from your agent. Track sophisticated capital movements, profile any crypto wallet's history, and monitor real-time token flows across multiple blockchains. Use this MCP to see who holds the money and how it moves.

A+ Quality Score 98.33/100

smart-money | on-chain-analytics | wallet-profiling | crypto-trading | token-flows

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vinkius.com/mcp/nansen-blockchain-analytics

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.

Nansen (Blockchain Analytics) MCP

48 tools available
Cloud-hosted on Vinkius

This MCP connects institutional blockchain data directly into your workflow, letting you analyze on-chain activity using natural language prompts. You don't need a dashboard full of tabs; you just ask your agent what you want to know about a wallet or token. You can identify where major capital is flowing by tracking sophisticated movements from large entities and calculating a wallet's total profit and loss history. For example, you might trace all recent transactions for a specific address or see how much an entire portfolio holds across different protocols. Whether you're checking market metrics for a new asset or performing due diligence on a project, this MCP gives you the raw data to make informed decisions. Accessing these tools through Vinkius means you connect once and get immediate access to Nansen's full catalog of analytics.

Core Capabilities

01 — Analyze wallet financial performance

Calculate a crypto address's total profit or loss, tracking its entire investment history.

02 — Track institutional capital movements

Monitor the net flow of funds and aggregated holdings from sophisticated market players.

03 — Profile any crypto address

Retrieve a wallet's current token balances, historical snapshots, and behavioral labels.

04 — Search for tokens and entities

Find specific cryptocurrencies or contract addresses by their name or symbol across the chain.

05 — Examine decentralized trading activity

View real-time trade data from perpetual platforms or major decentralized exchanges.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/nansen-blockchain-analytics** — connect your AI agent in three steps.

01 Subscribe to the Nansen MCP and input your required API key.

02 Instruct your AI client on the specific blockchain activity you want to track, like a wallet's history or smart money flows.

03 Your agent executes the query and returns structured data, showing exactly what's happening with capital movements.

The bottom line is that you get deep, actionable insights into on-chain finance without leaving your chat window.

Built For

Crypto researchers and quantitative traders who spend hours clicking through multiple dashboards are the primary users. If tracking capital flow or verifying a project's actual usage is part of your job, you need this. It cuts out all the manual data gathering.

Quantitative Researcher

Uses the MCP to profile specific wallets and calculate historical PnL metrics to find arbitrage opportunities or identify undervalued assets.

Crypto Portfolio Manager

Checks current token balances and tracks smart money holdings across DeFi protocols before allocating capital. Also uses the MCP to see related wallets based on common behavior.

Blockchain Developer

Integrates specific on-chain labels or transaction data into a larger application build, confirming asset ownership and movement patterns for client projects.

What Changes When You Connect

01 Go beyond surface-level data. Instead of just seeing a wallet's balance, you can use `profiler_pnl` to calculate its total profit or loss across all tokens, giving you a true financial picture.

02 Understand institutional interest by accessing premium labels via `profiler_premium_labels`. This shows you exactly what 'Smart Money' activity looks like and where the big players are moving their funds.

03 Stop guessing about market direction. Use tools like `smart_money_netflow` to calculate net capital flows, instantly showing if a token is experiencing more inflows or outflows.

04 Analyze complex trading strategies by running simulations on specific actions, such as using `smart_money_dcas` to evaluate dollar-cost averaging performance on Solana.

05 Drill down into the details of market activity. You can track every recent transaction for an address with `profiler_transactions`, or see the full trade history from a perpetual exchange using `profiler_perp_trades`.

Real-World Applications

Investigating whale accumulation patterns

A researcher wants to know if large, sophisticated wallets are quietly building up a position. They use the MCP to analyze `smart_money_historical_holdings` and cross-reference it with `tgm_flow_intelligence` to confirm sustained buying pressure.

Validating market hype or rumors

A trader hears buzz about a token. They use the MCP's `search_general` tool first, then check `tgm_who_bought_sold` to see if real buyers are entering the market, confirming organic interest.

Due diligence on a competitor's strategy

A developer needs to understand how a rival is positioning assets. They use `profiler_related_wallets` and `profiler_counterparties` to map out the network of addresses connected to that wallet.

Evaluating prediction market viability

A venture capitalist wants to know if a specific political outcome is backed by money. They use the MCP's `prediction_market_screener` and then check `prediction_orderbook` for real-time liquidity.

Patterns to Avoid

Treating on-chain data like a simple ledger

✗ AVOID

Thinking that seeing a transaction (using `profiler_transactions`) means the wallet bought the token at market price. You only see movement, not intent or profit.

✓ INSTEAD

Always calculate the financial impact using dedicated tools. Use `profiler_pnl` to get the actual profit/loss value for an address against a specific token rather than just viewing raw transactions.

Ignoring smart money signals

✗ AVOID

Focusing only on general market price action when major capital is quietly moving. You miss the real story because you aren't tracking sophisticated funds.

✓ INSTEAD

Prioritize tools that track institutional movement, like `smart_money_netflow` or checking aggregated balances with `smart_money_holdings`. These show where the money *is* going.

Asking for a single metric without context

✗ AVOID

Just asking 'What is the balance of X?' using only `profiler_current_balance` gives an incomplete picture. You don't know if that balance is new or historic.

✓ INSTEAD

Always pair current data with historical context. Check both `profiler_current_balance` and `profiler_historical_balances` to understand the wallet's overall accumulation pattern.

The Right Fit

Use this MCP if your work revolves around verifying financial claims or tracking capital flow. Specifically, use it when you need to know *who* moved assets (Smart Money), *how much* money was made (PnL tools like `profiler_pnl`), or what a wallet's true activity is over time (`profiler_historical_balances`). Don't use this if you just want general market sentiment or basic price charting. For simple, real-time price visualization across many chains, look for dedicated token metrics MCPs. If your goal is just to see the top 10 tokens by market cap, a standard crypto data provider might suffice; but if you need behavioral labels (like ENS) or institutional profiling, this toolset is necessary.

Manual On-Chain Research Takes Too Long

Right now, analyzing capital flow means opening a dozen different dashboards. You copy an address here, check its current balance there, jump to another tab to find historical snapshots, and then open a third site just to see if 'Smart Money' has bought it recently. It’s tedious clicking and cross-referencing across multiple tabs.

With this MCP, you feed the query into your agent once. The agent synthesizes data from profile history, current balances, and smart money movements simultaneously. You get a single, coherent answer that tells you not just *what* happened, but *why* it matters.

Nansen (Blockchain Analytics) MCP delivers full wallet profiling.

You no longer have to manually check a wallet's activity by pulling the latest transactions and then separately checking its associated protocols. The agent bundles these steps for you, providing both `profiler_transactions` and `portfolio_defi_holdings` in one output.

It’s not just about seeing data; it’s about getting a narrative. You get an instant, comprehensive report on the wallet's financial standing that used to take hours of manual dashboard navigation.

Nansen (Blockchain Analytics): 34 Tools

These tools give you granular access to on-chain data, allowing your AI agent to profile wallets, track capital flows, and analyze market metrics from multiple angles.

#	TOOL	DESCRIPTION
01	agent_expert	Performs complex, multi-step analysis and synthesizes findings from raw on-chain data.
02	agent_fast	Provides quick answers to simple research questions with low latency for immediate insights.
03	perp_leaderboard	Lists the most profitable traders on the Hyperliquid perpetual exchange platform.
04	points_address	Looks up a wallet's ranking and tier status on the Nansen points leaderboard.
05	points_leaderboard	Retrieves paginated data for the overall Nansen points leaderboard.
06	portfolio_defi_holdings	Tracks and lists a wallet's current token positions across various DeFi protocols.
07	prediction_address_summary	Presents key metrics like win rate, total PnL, and age for an address in prediction markets.
08	prediction_categories	Shows summary statistics for market categories like Politics or Crypto.
09	prediction_event_screener	Allows browsing and filtering of groups of related prediction markets by event type.
10	prediction_market_screener	Provides a full list to browse and filter all available prediction markets.
11	prediction_ohlcv	Generates 1-hour price history candle data for specific prediction markets.
12	prediction_orderbook	Displays the real-time bid and ask depth (liquidity) for a given prediction market.
13	prediction_pnl_by_address	Calculates the total profit or loss generated by a single trader in prediction markets.

#	TOOL	DESCRIPTION
14	prediction_pnl_by_market	Ranks and shows profitability data for specific prediction markets.
15	prediction_position_detail	Shows granular details of token holdings held by various participants in prediction markets.
16	prediction_top_holders	Identifies the largest and most committed holders within a specific prediction market.
17	prediction_trades_by_address	Lists all recorded trades for one wallet specifically within the prediction markets ecosystem.
18	prediction_trades_by_market	Shows a feed of recent trading activity that occurred in a specific prediction market.
19	profiler_counterparties	Lists the top addresses or entities that an address has interacted with recently.
20	profiler_current_balance	Retrieves the most up-to-date token balances for any given wallet or entity.
21	profiler_historical_balances	Provides historical snapshots of an address's holdings over time.
22	profiler_labels	Retrieves non-premium, public labels attached to a wallet or entity (like ENS).
23	profiler_perp_positions	Shows the real-time open positions for a wallet on Hyperliquid.
24	profiler_perp_trades	Retrieves the complete trade history of a wallet on the Hyperliquid platform.
25	profiler_pnl_summary	Generates an overview of aggregate PnL and identifies the tokens that generated the most profit for an address.
26	profiler_pnl	Calculates detailed Profit/Loss figures for a specific wallet against a single token.
27	profiler_premium_labels	Accesses all premium labels, including those identifying 'Smart Money' movements and behavior.
28	profiler_related_wallets	Finds other wallet addresses that show behavioral patterns similar to a given address.
29	profiler_transactions	Gathers the most recent blockchain transactions associated with an address.

#	TOOL	DESCRIPTION
30	search_general	Searches for tokens, entities, or contract addresses using their name, symbol, or full contract address.
31	smart_money_dcas	Analyzes dollar-cost averaging (DCA) strategies used on the Jupiter platform on Solana.
32	smart_money_dex_trades	Tracks real-time decentralized exchange trading activity over the last 24 hours.
33	smart_money_historical_holdings	Provides daily snapshots of aggregated holdings specifically from smart money sources (Beta).
34	smart_money_holdings	Shows the collective token balances currently held by known smart money groups.
35	smart_money_netflow	Calculates net capital flows, comparing inflows to outflows for specific tokens.
36	smart_money_perp_trades	Tracks perpetual trading activity on Hyperliquid, specifically linked to smart money movements.
37	tgm_dex_trades	Lists individual decentralized exchange transactions for a specific token.
38	tgm_flow_intelligence	Segments and analyzes capital flows, distinguishing between exchanges, whales, and smart money movements.
39	tgm_flows	Provides hourly snapshots of total inflows versus outflows categorized by type.
40	tgm_holders	Identifies top token holders and tracks changes in their overall balance over time.
41	tgm_indicators	Calculates risk and reward scores for a given cryptocurrency asset.
42	tgm_jup_dca	Analyzes DCA orders placed on Jupiter for Solana-based tokens.
43	tgm_pnl_leaderboard	Ranks various traders by profit when dealing with a specific token.
44	tgm_token_information	Gathers metadata, market metrics, and spot trading statistics for any given token.
45	tgm_token_ohlcv	Generates unified price and volume candle data across multiple timeframes (1 minute to 1 month).

#	TOOL	DESCRIPTION
46	tgm_transfers	Lists the top token transfers that occurred for an ERC-20 standard asset.
47	tgm_who_bought_sold	Summarizes and quantifies the net buying or selling activity surrounding a specific token.
48	token_screener	Discovers cryptocurrency assets that are currently gaining traction across multiple chains.

See It in Action

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

U Search for the token 'PEPE' and show me its details.

I've found the PEPE token. It is currently tracked across multiple exchanges. Would you like to see the Smart Money netflow for PEPE in the last 24 hours?

U What are the current Smart Money holdings?

Fetching aggregated Smart Money balances... The top holdings currently include WETH, USDC, and LINK. I can provide a detailed breakdown of the balance for any of these tokens.

U Show me the PnL summary for address 0x71C7656EC7ab88b098defB751B7401B5f6d8976F.

Analyzing PnL for the specified address... This wallet has an aggregate realized profit of $1.2M, with its most profitable trade being in SHIB. Would you like to see the full transaction history?

Frequently Asked Questions

01 **How do I find out if a wallet is 'Smart Money' using Nansen (Blockchain Analytics)?**

You can check for institutional activity by accessing premium labels via `profiler_premium_labels`. This tool identifies wallets that exhibit behaviors consistent with sophisticated market players.

02 **Does Nansen (Blockchain Analytics) track historical token movements?**

Yes, you can retrieve past data using tools like `profiler_historical_balances` and by analyzing daily snapshots from `smart_money_historical_holdings`, giving you a timeline view.

03 **Can I use Nansen (Blockchain Analytics) for prediction market analysis?**

Absolutely. You can track profitability rankings with `prediction_pnl_by_market` or see the largest holders in any given market using `prediction_top_holders`.

04 **How do I check if a token is trending with Nansen (Blockchain Analytics)?**

Use the `token_screener` tool to discover tokens that are currently gaining traction across multiple chains, helping you filter out noise and find emerging assets.

05 **Is Nansen (Blockchain Analytics) better than a standard portfolio tracker?**

Yes. Standard trackers only show your holdings; this MCP shows the underlying financial relationships by tracking related wallets (`profiler_related_wallets`) and calculating detailed PnL.

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 `"nansen-blockchain-analytics": { "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

Nansen (Blockchain Analytics) 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

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