MCP SERVER | NO CODE | CLOUD HOSTED

Covalent MCP for AI Agents

Analyze token balances & transaction history across any major blockchain network

Covalent gives your AI agent access to unified blockchain data. It lets you query real-time and historical information—including token balances, NFT metadata, transactions, and block status—across more than 100 supported chains in a single conversation.

A+ Quality Score 100/100

web3 | blockchain-data | nft | wallet-tracking | token-balances | api-query

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vinkius.com/mcp/covalent

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.

Covalent MCP

10 tools available
Cloud-hosted on Vinkius

Working with decentralized finance or Web3 means dealing with endless, disparate datasets across dozens of blockchains. Covalent solves that headache by providing one unified API for all your blockchain needs. You can talk to it using natural language and get answers about wallets, tokens, and smart contracts without ever needing to write complex queries. Whether you're checking a portfolio value or auditing transaction logs, this MCP surfaces the data in plain English. You connect Covalent through Vinkius, giving any compatible AI client immediate access to global blockchain intelligence. It’s built for anyone who needs real-time visibility into anything happening on-chain.

Core Capabilities

01 — Determine current token holdings

Get a comprehensive list of all tokens and their balances held by any specified wallet address across supported chains.

02 — Track historical portfolio performance

Retrieve daily asset valuations in USD for a given wallet, showing how its total value changed over time.

03 — Audit transaction history

Pull the full list of transactions for an address, including timestamps and amounts transferred, to track activity patterns.

04 — Identify NFT assets

List all Non-Fungible Tokens (NFTs) held by a wallet, along with their metadata and contract details.

05 — Monitor network health

Check the current syncing status and block height lag across multiple supported blockchain networks.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/covalent** — connect your AI agent in three steps.

01 Connect Covalent to your AI client through Vinkius. You'll need an API key from your Covalent dashboard.

02 Your agent receives the query (e.g., 'What was this wallet's value last month?').

03 The MCP executes the required blockchain data calls and returns structured, readable results to your AI client.

The bottom line is that you ask a question in plain English, and Covalent translates it into complex multi-chain data retrieval.

Built For

This MCP is for anyone dealing with decentralized assets: Web3 developers building tools, crypto analysts monitoring portfolios, or researchers needing verifiable on-chain data. If your job involves tracking digital ownership, this tool saves you hours of manual cross-referencing.

Web3 Developer

Uses the MCP to programmatically audit smart contract interactions and verify transaction logs for new applications.

Crypto Analyst

Monitors portfolio performance across multiple chains, tracking historical asset valuations and token movements in real-time.

Blockchain Researcher

Retrieves structured on-chain data—like block details or DEX pool metrics—for academic studies or market reports.

What Changes When You Connect

01 Stop manually checking ten different block explorers. Covalent centralizes data from over 100 chains, giving your agent a single source of truth for all asset movements.

02 Track portfolio value changes easily using `get_historical_portfolio`. You get daily USD valuations without having to calculate every price point yourself.

03 Dive deep into activity with `get_transaction_details`. This lets you look past the summary and read the actual log events of a transaction hash.

04 Monitor market liquidity by listing DEX pools using `get_dex_pools`, giving analysts instant insight into token pairs and reserve sizes.

05 Quickly verify asset ownership or activity with `get_token_balances` for any wallet, making initial due diligence much faster.

Real-World Applications

Investigating a suspicious transfer

A user notices an unusual outgoing transaction. They ask their agent to check the `get_transaction_details` for that hash, instantly pulling raw log events and gas consumption metrics to determine if it was malicious or legitimate.

Building a comparative market report

A researcher needs to compare NFT ownership across Ethereum and Polygon. They ask the agent to run `get_nft_balances` on both chains, getting comparable metadata lists for reporting purposes.

Reviewing past investment performance

An investor wants to know how their seed funding performed in Q3. They use `get_historical_portfolio`, which returns a timeline of daily asset valuations, proving the exact growth trajectory over time.

Auditing token movement patterns

A compliance officer needs to track all funds leaving an institutional wallet. Asking for `get_token_transfers` provides a clean list of every sender/receiver pair and the exact transfer value.

Patterns to Avoid

Querying only basic balances

✗ AVOID

Just asking 'What's in this wallet?' often gives surface-level data, missing critical context like recent activity or historical changes.

✓ INSTEAD

To get the full picture, ask your agent to run `get_token_balances` combined with `get_transactions`. This pairing ensures you see not just what they hold now, but how they got there.

Ignoring chain status

✗ AVOID

Assuming all data is available when a network might be lagging or undergoing maintenance. Getting stale information leads to bad decisions.

✓ INSTEAD

Always start by checking the `get_chains_status`. This confirms that the indexing service is healthy and ready before running any complex balance checks.

Confusing token balances with holdings

✗ AVOID

Mistaking a single listing of tokens for a complete picture. You might miss NFTs or liquid pool assets.

✓ INSTEAD

You need to check two tools: `get_token_balances` (for fungible tokens) and `get_nft_balances` (for unique digital art pieces). Use both.

The Right Fit

Use this MCP if your goal is deep, cross-chain data analysis. You need to see what happened historically or audit complex transactions; for that, you must use tools like `get_token_transfers` and `get_historical_portfolio`. Don't use it if all you want is a single current price quote—a simple API call might suffice. If your goal involves listing multiple assets (like NFTs), make sure to run `get_nft_balances`; otherwise, the tool won't show them. Remember that while Covalent covers 100+ chains, certain niche protocols may require dedicated data sources outside of this MCP.

Covalent MCP for AI Agents: Auditing Blockchain Transactions

When you manually audit a complex smart contract interaction, you're bouncing between block explorers. You check the transaction hash to see the basic event, then you click on token transfers to verify amounts, and finally, you have to cross-reference different chains to confirm total value. It’s hours of copy-pasting data across multiple tabs.

With this MCP, your agent handles it all. Just ask it to get full details for a specific transaction hash. You instantly receive decoded event parameters and gas consumption metrics in one clean output. The result is immediate, verifiable truth.

Covalent MCP for AI Agents: Monitoring Token Balances

Before connecting your agent to a new project, you used to have to check multiple places just to get the current token count. You'd verify balances on Chain A, then repeat that entire process for Chain B and Chain C, risking human error every time.

Now, you simply ask the agent to resolve contract addresses and current balances across all supported chains using `get_token_balances`. It aggregates the data instantly, giving you a complete picture of ownership.

Covalent: Accessing 10 Tools for Multi-Chain Data Queries

These tools let your agent read everything from current token balances to historical portfolio values, making complex blockchain analysis simple.

#	TOOL	DESCRIPTION
01	`get_token_balances`	Gets the current and raw token balances for a specific wallet address on any connected blockchain.
02	`get_block_details`	Retrieves technical details, including block hashes and timestamps, for a specified block height on a chain.
03	`get_chains_status`	Checks the indexing status of all supported blockchains to ensure data is current and available.
04	`get_dex_pools`	Lists liquidity pools for a given Decentralized Exchange (DEX), showing token pairs and reserve amounts.
05	`get_nft_balances`	Retrieves the count and metadata links for Non-Fungible Tokens held by a wallet address.
06	`get_historical_portfolio`	Calculates the daily portfolio value in USD for a wallet, providing an overview of historical asset changes.
07	`get_token_transfers`	Pulls a history of token transfers, detailing sender/receiver addresses and transfer values over time.
08	`get_transaction_details`	Gathers raw log events and decoded parameters for a specific transaction hash to deep-dive into activity.
09	`get_transactions`	Fetches the full, time-stamped history of transactions associated with a wallet address on a chain.
10	`list_supported_chains`	Lists all blockchain networks that Covalent currently monitors and supports for data querying.

See It in Action

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

U Show me my token holdings for 0x123... on Polygon.

Wallet Token Summary:

- **ETH:** 0.5 (Value: $1,800)
- **USDC:** 5,000 (Value: $5,000)
- **MATIC:** 12,000 (Value: $1,200)

Total Estimated Value: **$8,000**.

Would you like to see the historical value trend for this wallet?

U What were my transfers last week?

Transaction History (Last 7 Days)

DATE	TYPE	FROM ADDRESS	TO ADDRESS	AMOUNT
Jun 10	Transfer	Wallet A	Exchange X	5 ETH
Jun 12	Withdrawal	Wallet A	DeFi Protocol	3,000 USDC

Analysis: High activity involving both exchange deposits and decentralized finance interactions.

U How did my portfolio value change over the last quarter?

Historical Portfolio Value (USD)

DATE	TOTAL ASSET VALUE
2024-03-01	$5,120
2024-04-01	$6,890
2024-05-01	$7,210

The portfolio showed steady growth over the quarter. The largest gain was noted in early April.

Frequently Asked Questions

01 **Can Covalent help me track assets across different blockchains?**

Yes, it's built for multi-chain analysis. You can query token balances and NFT metadata from over 100 supported networks using a single conversation with your agent.

02 **What kind of data does Covalent provide about transactions?**

Covalent gives you full transaction history, including the raw log events and decoded parameters. This detail lets you understand exactly what happened within a smart contract call.

03 **Does Covalent help me track my overall portfolio value?**

Absolutely. You can use it to pull historical portfolio data, getting daily asset valuations in USD for any wallet address over time. This is crucial for performance tracking.

04 **Is this MCP only for Ethereum-based assets?**

No. Covalent supports a massive number of networks beyond just Ethereum, including Polygon and Binance Smart Chain. You can query data across many different blockchains.

05 **Can I list all the supported chains with this MCP?**

Yes, it provides a tool that lists every single blockchain network Covalent monitors, letting you know exactly where your agent can look for data.

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 `"covalent": { "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

Covalent 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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