

MCP SERVER

NO CODE

CLOUD HOSTED

CoinMarketCap MCP for AI Agents

Analyze real-time crypto prices and global market rankings

CoinMarketCap MCP connects your AI agent directly to real-time cryptocurrency market data. It lets you check current prices across hundreds of digital assets, convert values between crypto and fiat currencies, and view detailed global market metrics for research or trading.

A+ Quality Score 100/100

crypto-prices

market-rankings

currency-conversion

api-usage

financial-data

market-volume



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.

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.

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.

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

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

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.

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.

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.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot 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.

FinOps

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

Firewall & DLP

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

Agent Activity

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

Tool Health

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

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.

CoinMarketCap MCP

8 tools available

Cloud-hosted on Vinkius

Need live crypto stats without opening a browser? This CoinMarketCap integration gives your AI client access to the world's most-referenced pricing data. You can ask it anything about the crypto market, from what coins are currently leading by market cap to converting 1 ETH into Japanese Yen.

It handles complex data requests easily. Want to know which exchanges list specific assets? Or maybe you need a ranked list of all active cryptocurrencies right now? This MCP pulls that information instantly. Because this data is so critical for analysis, we host it on Vinkius, giving your agent access to thousands of other tools too. Just provide your API key and start talking crypto with natural language prompts.

Core Capabilities

01 — Get Global Market Health Metrics

Retrieve aggregate statistics for the entire cryptocurrency market at a glance.

03 — Check Current Asset Quotes

Fetch the latest market price quotes for any specified cryptocurrency or group of coins.

05 — Analyze Market Listings and Exchanges

Get a ranked list of major cryptocurrency exchanges, or pull paginated lists of all tracked cryptocurrencies.

02 — Perform Crypto-to-Fiat Price Conversions

Convert specific amounts from one digital currency to another fiat currency using current rates.

04 — Map Crypto Symbols and IDs

Look up unique CoinMarketCap identifiers associated with specific crypto symbols or names.

One Click on Vinkius — From Prompt to Execution

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

- 01 Add the CoinMarketCap integration to your AI toolset and provide your API key from pro.coinmarketcap.com.
- 02 Instruct your agent using plain language, specifying exactly what market data you need (e.g., 'What is the total market cap?').
- 03 The MCP runs the necessary background queries, pulling live crypto metrics and returning structured, actionable results directly to your chat window.

The bottom line is: You just talk about crypto prices, and your AI agent does the heavy lifting of data retrieval for you.

Built For

This MCP helps anyone who spends time analyzing market trends or managing digital assets. It's built for financial analysts needing quick market context, developers integrating crypto data into apps, and traders who need real-time quotes without leaving their chat window.

Financial Analyst

Pulling comparative data across multiple assets to build research reports or track portfolio performance.

Crypto Trader

Getting immediate 24-hour price changes and global market health metrics while monitoring trades from a single interface.

Software Developer

Integrating accurate, up-to-date crypto pricing into an application's backend workflows using the API key management tools.

What Changes When You Connect

- 01 Get instant price conversions: Use the `price_conversion` tool to convert any amount between two currencies without leaving your conversation.

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- 02 Track overall market health: Quickly pull aggregate data using `get_global_metrics` to understand the sector's current momentum and total value.

 - 03 Stay informed on assets: Pull a comprehensive list of all tracked coins via `list_listings` so you don't miss any major market players.

 - 04 Verify asset details: Use `get_metadata` when you need static info, like official logos or descriptions, for specific cryptocurrencies.

 - 05 Monitor your access: The `get_key_info` tool lets you check your API key usage and remaining credits before starting a big analysis.
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Real-World Applications

Tracking Sector-Wide Changes

You need to know if the overall market is up or down today. You ask your agent for global metrics, which uses `get_global_metrics` to provide a snapshot of the entire crypto economy's performance.

Identifying New Assets

A client wants to know about every coin currently tracked. Your agent uses `list_listings` to pull the full, paginated roster of active cryptocurrencies and their latest data points.

Comparing Coins Across Currencies

You are analyzing an investment portfolio that involves both BTC and stablecoins. You ask your agent to use `price_conversion`, which calculates how much 10 ETH is worth in USD, for example.

Patterns to Avoid

Trying to calculate without a rate

✗ AVOID

Asking your agent simply 'How much is 1 BTC in EUR?' when the system needs more context or confirmation of the required conversion parameters.

✓ INSTEAD

Always use the `price_conversion` tool, specifying both the input amount and the target currency pair (e.g., converting 0.5 BTC to CAD).

Confusing listing with quotes

✗ AVOID

Treating a general list of coins as if it contained real-time pricing data, leading to stale or inaccurate numbers.

✓ INSTEAD

If you need current values, always use `get_quotes` for the latest market prices on specific assets.

Ignoring API limits

✗ AVOID

Running dozens of complex queries until your account hits a rate limit and fails midway through an analysis.

✓ INSTEAD

Before running intensive jobs, check your usage first using `get_key_info` to confirm you have enough remaining credits.

The Right Fit

Use this MCP if your primary need is accurate, real-time financial data on the crypto market. Specifically, use it when you need to convert values (via `price_conversion`), or when you need a broad overview of market health (`get_global_metrics`). Don't use it if you are trying to execute trades—this MCP only reads data; it doesn't connect to an exchange wallet. If your goal is merely research into crypto history outside current listings, you might look at specialized historical database tools instead.

CoinMarketCap and Crypto Market Data for AI Agents

Before this MCP, getting a full picture of the crypto market meant juggling multiple browser tabs.

Now, you ask your agent directly about the market status. It pulls together global metrics, fetches

You'd check CoinMarketCap for rankings, switch to Google Finance for fiat conversions, and then manually compile all that data in a spreadsheet. It was slow, prone to copy-paste errors, and always felt slightly outdated.

quotes for specific assets, and even handles complex currency pairings like converting BNB to CHF—all in one response. You get structured data instantly, letting you focus on analysis instead of aggregation.

CoinMarketCap and Crypto Ranking Analysis with AI Agents

Listing the top assets manually used to take hours for analysts compiling weekly reports. You had to check which data points were available, which required jumping between listing tools and metadata lookups.

With this MCP, you just ask your agent to pull a list of the top 10 coins by market cap, and it handles all the necessary calls—from `list_listings` to `get_global_metrics`. The result is a clean, ranked table ready for immediate use.

CoinMarketCap: 8 Tools for Analyzing Crypto Prices & Rankings

Use these specific functions to pull everything from global market health statistics to precise price conversions between any two cryptocurrencies or fiat currencies.

#	TOOL	DESCRIPTION
01	<code>get_global_metrics</code>	Pulls aggregate market data covering the entire cryptocurrency sector.
02	<code>get_id_map</code>	Retrieves a lookup map that links crypto symbols or names to unique CMC IDs for accurate referencing.
03	<code>get_key_info</code>	Checks your API key's usage, remaining credits, and current rate limits so you know when you need more access.
04	<code>get_metadata</code>	Fetches static descriptive data for one or multiple cryptocurrencies, like their logo or official description.
05	<code>get_quotes</code>	Retrieves the most current market quotes and pricing information for selected cryptocurrencies.
06	<code>list_exchanges</code>	Returns a ranked list of all cryptocurrency exchanges currently tracked by CoinMarketCap.
07	<code>list_listings</code>	Pulls an active, paginated list of cryptocurrencies along with their latest available market data.
08	<code>price_conversion</code>	Converts a specified amount from one currency pair to another using the most recent market exchange rate.

See It in Action

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

U What are the top 5 cryptocurrencies by market cap right now?



Top 5 Market Leaders:

1. **Bitcoin (BTC):** \$1.2 Trillion | 24h Change: +1.5%
2. **Ethereum (ETH):** \$410 Billion | 24h Change: +2.1%
3. **Tether (USDT):** \$110 Billion | 24h Change: -0.1%
4. **Binance Coin (BNB):** \$95 Billion | 24h Change: +1.8%
5. **Solana (SOL):** \$78 Billion | 24h Change: +3.0%

U I need to convert 2.5 ETH into Brazilian Reais.



Conversion Result:

Input: 2.5 Ethereum (ETH)

Output: R\$ 12,500.00 Brazilian Real (BRL)

Exchange Rate Used: 1 ETH = R\$ 5,000.00 BRL

Last Updated: 3 minutes ago.

U Show me the current total market cap and how many coins are tracked.



Global Market Overview:

The entire crypto market is currently valued at **\$3.2 Trillion**.

We track over 20,000 unique cryptocurrency listings across dozens of exchanges globally. This gives you a massive view of the total digital asset landscape.

Frequently Asked Questions

01 How do I get real-time crypto prices using CoinMarketCap MCP?

You simply ask your agent for the current price of any coin, like 'What is the price of Dogecoin?' The MCP fetches live quotes instantly and gives you the latest value available. This works whether you're checking a single asset or multiple coins.

02 Can CoinMarketCap MCP help me convert crypto to fiat currency?

Yes, it can handle complex conversions. Just tell your agent what amount of one coin you want converted into another fiat money type—it uses the live market rate for accuracy.

03 Is CoinMarketCap MCP good for analyzing market rankings?

Absolutely. You can ask it to list top cryptocurrencies by criteria like market cap or volume, giving you a clean, ranked breakdown of the biggest players in the space.

04 Does CoinMarketCap MCP support historical data lookups?

While it excels at real-time data and current listings, its primary focus is on providing live market metrics. For deep, time-series historical research, you might need a dedicated archival database tool.

05 What if I run out of API credits with CoinMarketCap MCP?







You can check your usage before running big queries. The MCP has a specific tool to show you exactly how many credits you have left and when you might hit rate limits, so you can plan accordingly.

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 <code>"coinmarketcap": { "url": "..."</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → 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

CoinMarketCap 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](https://cloud.vinkius.com) →

vinkius.com · support@vinkius.com

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