MCP SERVER | NO CODE | CLOUD HOSTED

CoinCap MCP for AI Agents

Tracking Real-Time Crypto Prices and Market Volumes

CoinCap MCP delivers real-time crypto market data, historical price records, and exchange rankings directly through your AI agent. It lets you query current asset prices, track trading pairs across multiple exchanges, and generate candlestick charts—all without needing to manage an API key.

A+ Quality Score 98.33/100

market-cap | cryptocurrency | real-time-data | historical-prices | asset-tracking

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vinkius.com/mcp/coincap

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.

CoinCap MCP

9 tools available
Cloud-hosted on Vinkius

This MCP connects your AI client to CoinCap's entire suite of crypto market data tools. You get instant access to the latest pricing information for any cryptocurrency, its total circulating supply, and how it compares against fiat currencies like USD.

Think about what you usually do: opening multiple browser tabs, jumping between exchange websites, cross-referencing volumes, and then manually plotting historical price changes. This MCP handles that. You simply ask your agent a question—like 'Show me the 12-hour candlestick data for Ethereum' or 'What are the top exchanges by volume?'—and get a structured answer right back.

It’s all built on an open standard, so you connect once through Vinkius and get this crypto data accessible from Claude, Cursor, Windsurf, or any other compatible client. You don't worry about keys; it just works. This is pure market intelligence delivered in conversation.

Core Capabilities

01 — Get detailed asset metrics

Retrieves the current price, market capitalization, 24-hour trading volume, and supply statistics for any specified cryptocurrency.

02 — Track historical price movement

Fetches price snapshots or candlestick data across various time intervals (from minutes to days) for deep trend analysis.

03 — Compare exchange performance

Provides rankings and detailed information on major crypto exchanges, including their 24-hour volume and verification status.

04 — Analyze specific trading pairs

Lists all active markets and gives the current price and volume percentage for a given asset or exchange pairing.

05 — Calculate fiat conversions

Returns accurate, real-time conversion rates between any cryptocurrency and its corresponding fiat currency.

One Click on Vinkius — From Prompt to Execution

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

01 First, you connect your AI agent to the CoinCap MCP through Vinkius. You don't need to sign up for anything or generate credentials.

02 Next, you ask your agent a natural language question—for instance, 'What was Bitcoin's price 6 hours ago?' The agent then uses this MCP to fetch the exact data needed from the CoinCap APIs.

03 Finally, you receive a clean, conversational answer containing all the necessary metrics, whether it's a list of exchanges or a detailed historical chart.

The bottom line is: your AI agent handles all the complex API calls and data structuring so you just get the answer you need in plain English.

Built For

This MCP is built for anyone who spends time tracking crypto assets, from institutional traders to developers building market dashboards. It solves the problem of having to manually stitch together data from multiple sources and spreadsheets.

Quantitative Trader

Uses this MCP to quickly compare current prices across different exchanges and analyze historical candlestick patterns for immediate trade signals.

FinTech Developer

Integrates the real-time market data into custom dashboards or bots, needing reliable metrics like 24h volume and asset ranks without authentication overhead.

Crypto Researcher

Analyzes long-term market trends by pulling comprehensive historical price records and ranking different exchanges for sector reports.

What Changes When You Connect

01 Instantly compare asset values across top exchanges. Use the `get_markets` tool to see trading pair volumes and current prices in one query, eliminating manual cross-referencing.

02 Deep dive into market trends with historical data. The `get_candles` tool lets you pull OHLCV charts for technical analysis on minute, hour, or day intervals.

03 Maintain constant awareness of the crypto ecosystem's major players. Use `list_exchanges` to check rankings and verify status for top exchanges in seconds.

04 Stay updated on market breadth. The `get_asset` tool provides a snapshot of any asset's market cap, 24h volume, and circulating supply instantly.

05 Calculate accurate conversions without leaving your workflow. Use `get_rates` to compare crypto-to-fiat conversion values effortlessly.

Real-World Applications

Comparing BTC performance across top exchanges

A trader needs to know if Binance or Kraken is offering better liquidity for a trade. Instead of visiting both sites, they ask their agent and use the `get_markets` tool to get current prices and 24h volumes from both platforms in one response.

Building a market overview report

A researcher needs data for a quarterly crypto report. They use the MCP's capabilities to run `list_assets` to get a full list, then pull specific metrics using `get_asset` and `get_rates` for key assets like Ethereum or Solana.

Analyzing short-term volatility

A developer is testing trading logic. They ask their agent to fetch 15-minute candlestick data using `get_candles`, which provides the open, high, low, and close prices needed for backtesting a strategy.

Determining asset maturity

A new investor wants to know how stable an asset is. They use the MCP's ability to retrieve `get_asset_history` data over multiple years, giving them confidence in the asset's long-term viability.

Patterns to Avoid

Forgetting timeframes

✗ AVOID

Asking for 'historical prices' and getting a vague range instead of specific data points. This wastes cycles and forces manual follow-up queries.

✓ INSTEAD

Always specify the interval when requesting history. Use `get_asset_history` or `get_candles` and define the granularity (e.g., 'm15', 'h2') to get precise, actionable data.

Treating rates as static

✗ AVOID

Assuming a crypto-to-fiat exchange rate is constant throughout the day or week. This leads to inaccurate financial modeling.

✓ INSTEAD

Always use dedicated conversion tools like `get_rate` or `get_rates`. These fetch real-time data, ensuring your models reflect current market conditions.

Missing exchange context

✗ AVOID

Comparing raw asset prices without knowing which platform they came from. This can lead to flawed conclusions about liquidity.

✓ INSTEAD

Always check the source by using `get_exchange` or running a query via `get_markets`. This gives you necessary context on volume and verification status.

The Right Fit

Use this MCP if your workflow requires continuous, real-time cross-referencing of crypto metrics. Specifically, if you need to compare the 24h trading volumes across multiple major exchanges or pull structured historical data for technical analysis, this is perfect. Don't use it if you only need basic text search on crypto names; then a simple database lookup tool would suffice. If your goal is complex financial modeling that requires integrating external legal texts with market data, you'll need an advanced document indexing MCP instead.

CoinCap MCP for AI Agents: Tracking Live Crypto Prices and Market Volumes

Before this MCP, tracking crypto performance was a tedious mess. You had to open several dedicated exchange websites, navigate deep into market pair lists, then manually pull current prices and volumes. If you wanted to compare Bitcoin's volume on Coinbase versus Kraken for the last hour, it meant copy-pasting data across three different tabs—a process prone to human error.

Now, simply ask your agent for a comparison. The MCP uses tools like `get_markets` to consolidate this information instantly. You get a clean, structured output showing multiple assets and their volumes simultaneously, letting you focus on the insights instead of the data entry.

CoinCap MCP for AI Agents: Analyzing Historical Crypto Price Data

Analyzing volatility used to mean running separate queries for different timeframes. You'd pull daily records, then switch to 4-hour charts, and finally get minute-by-minute data, manually stitching together the full picture of an asset's movement.

With this MCP, you can request historical depth in one go. Tools like `get_candles` let your agent fetch structured candlestick data for any interval—from 'm15' to 'd1'. You get a complete, standardized timeline ready for modeling.

CoinCap: 9 Tools for Crypto Market Data Analysis

Use these tools to fetch current asset metrics, detailed price histories, exchange ranks, and conversion rates directly through your agent.

#	TOOL	DESCRIPTION
01	`get_asset`	Get detailed metrics for a specific cryptocurrency, including its current price, market cap, and 24h volume.
02	`get_asset_history`	Fetch daily or interval-based price snapshots to see how an asset's value has changed over time.
03	`get_candles`	Get OHLCV candlestick data, ideal for technical analysis on multiple timeframes.
04	`get_exchange`	Retrieve detailed information about a specific crypto exchange, including its volume and verification status.
05	`get_markets`	List all active trading pairs for assets or exchanges, showing current prices and 24h volumes.
06	`get_rate`	Get the precise exchange rate for converting a cryptocurrency into its corresponding fiat currency.
07	`get_rates`	Fetch multiple current rates, allowing you to compare conversion values across different base currencies.
08	`list_assets`	Browse and search all available cryptocurrency assets, sorted by their market cap for an overview of the crypto landscape.
09	`list_exchanges`	Get a comprehensive list of crypto exchanges, ranked by 24h volume and indicating if they are verified.

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 3 exchanges right now based on their 24-hour trading volume?

Top Volume Exchanges (Last 24h)

RANK	EXCHANGE NAME	VOLUME (USD)	STATUS
1	Binance	$38.1B	Verified
2	Coinbase Pro	$5.9B	Verified
3	Kraken	$4.1B	Verified

Data accurate as of the last minute.

U Show me Ethereum's price history and current market data.

Ethereum (ETH) Metrics

- **Current Price:** $3,501.22 USD
- **Market Cap:** $420 Billion
- **24h Volume Change:** +1.9%
- **Supply:** 120 million ETH (Circulating)

Last 7 Days Trend: The price has generally trended upward, showing strong resistance at the $3,600 mark.

Frequently Asked Questions

01 **How can CoinCap MCP help me compare crypto prices across different exchanges?**

The CoinCap MCP lets you instantly view and compare current prices and 24h trading volumes for the same asset across multiple major exchanges. This is crucial for identifying where liquidity is best.

02 **Does CoinCap MCP track historical data, or just real-time rates?**

It tracks both. You can use the MCP to retrieve detailed historical price snapshots and candlestick charts across customizable timeframes, making it perfect for trend analysis.

03 **What kind of crypto metrics does CoinCap MCP provide? Is it just price?**

No, it provides much more. You get full metrics including market capitalization, circulating supply, 24h volume, and conversion rates to fiat currencies like USD.

04 **Is using the CoinCap MCP for AI Agents reliable if I'm doing complex analysis?**

Yes. Because it uses industry-standard tools, you can reliably pull structured data for things like technical analysis (OHLCV candles) and asset ranking to build solid conclusions.

05 **Can CoinCap MCP list all the available crypto assets I should look at?**

Yes. The MCP includes a tool that lists hundreds of available cryptocurrency assets, sorted by market cap so you can easily see which coins dominate the overall market.

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 `"coincap": { "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

CoinCap 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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