

MCP SERVER

NO CODE

CLOUD HOSTED

Alpha Vantage MCP for AI Agents

Track real-time and historical stock price movements

Alpha Vantage delivers real-time stock quotes, historical time series data (daily, weekly, monthly), technical indicators like RSI, company financials, and crypto/forex rates directly to your AI client. It lets you analyze global markets by talking to your agent.

A+ Quality Score 100/100

stock-market

forex

cryptocurrency

technical-indicators

time-series-data

financial-analysis



The infrastructure that powers AI agents in the real world.



Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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](https://vinkius.com) — connect your AI agent in under 60 seconds.

Alpha Vantage MCP

13 tools available

Cloud-hosted on Vinkius

Think of this MCP as a dedicated market analyst hooked up to the world's financial wires. Instead of opening complex trading terminals or navigating multiple data sources, you just ask your AI client a question—like, “What’s happening with oil stocks and Bitcoin today?” The system pulls together current prices, historical trends, sector performance, and even news sentiment into one answer.

It lets you deep-dive into any market. Need to check how profitable a company is? Use the fundamental data tools. Want to predict short-term movements? Run technical indicators like RSI or MACD on intraday data. You can compare stock performance across all 11 major sectors, track forex rates, or analyze crypto volatility—all from natural conversation.

It’s about getting actionable market intelligence without the overhead of multiple platforms. Just connect this MCP through Vinkius and let your AI agent handle the heavy lifting.

Core Capabilities

01 –

02 –

03 –

04 –

05 –

06 –

07 –

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/alpha-vantage — connect your AI agent in three steps.

- 01** Subscribe to this Alpha Vantage MCP on Vinkius and input your personal API key, which you get from the provider.
- 02** Your AI client connects using that key. You're ready to go; no setup needed within the chat interface itself.
- 03** You simply ask your agent a question—like, 'Show me Tesla's RSI over the last 14 days.' The MCP executes the request and returns clean, structured data.

The bottom line is that once connected, you treat market analysis like conversation, letting your AI client run complex financial queries instantly.

Built For

This MCP serves anyone who needs deep, reliable financial data but hates spending hours clicking through expensive terminal dashboards. If you're a developer building finance apps, an investor running portfolio checks, or just trying to keep up with market news, this is for you.

Quantitative Trader

You use the MCP to compare intraday time series data across multiple assets and calculate indicators like RSI rapidly to spot entry points.

Financial Analyst

You pull company overviews, earnings history, and sector performance metrics to build comprehensive reports on potential investment targets.

Software Developer

You integrate the market data programmatically, using tools like `get_daily_time_series` or `get_crypto_daily` to power custom financial dashboards or applications.

Academic Researcher

You access long-term historical price movements (20+ years) and news sentiment scores for academic studies on market correlation.

What Changes When You Connect

-
- 01 Immediate market clarity: Get the current quote instantly using `get_quote`, saving you from navigating multiple data tabs just to check a price.

 - 02 Deep trend analysis: Calculate indicators like RSI or MACD with `get_rsi` on different timeframes, moving beyond simple price checks into true technical analysis.

 - 03 Comprehensive research: Pull company fundamentals via `get_company_overview` and detailed earnings history using `get_earnings` for full-spectrum investment vetting.

 - 04 Multi-asset comparison: Compare crypto volatility (`get_crypto_daily`) against traditional sector movements (`get_sector_performance`) in one conversation.

 - 05 Efficiency in data retrieval: Use tools like `get_daily_time_series` and `get_monthly_time_series` to pull massive amounts of structured historical data without manual scraping or complex API calls.
-

Real-World Applications

Vetting a new investment idea

An investor asks their agent: 'What's the story behind stock X?'. The agent runs `get_company_overview` to check financials, then uses `get_news_sentiment` to gauge public feeling, and finally checks `get_monthly_time_series` to see long-term trends. It gives a full picture in minutes.

Portfolio health check

An investor needs to know where their money is going. They ask for sector performance and `get_forex_daily` rates, giving them an instant view of global risk exposure across different asset classes.

Day trading analysis

A trader needs immediate action points. They ask the agent to run `get_intraday_time_series` and `get_rsi` on that asset. The agent flags if it's overbought or oversold based on 5-minute data, letting them make a quick decision.

Comparing crypto vs. stocks

A developer asks the agent to compare BTC's daily price (`get_crypto_daily`) against a major tech stock's weekly movement (`get_weekly_time_series`). This comparison informs them how to structure their cross-asset analysis code.

Patterns to Avoid

Using single data points for decisions

✗ AVOID

Relying only on a single day's quote or the most recent news article. This leads to making bad calls based on temporary market noise.

✓ INSTEAD

Always combine tools. Use `get_quote` for today's price, but immediately back it up with `get_daily_time_series` and `get_rsi` to understand if that price is supported by historical data and momentum.

Ignoring the asset class

✗ AVOID

Treating a crypto rate like a stock quote. You can't use standard stock indicators on foreign exchange pairs.

✓ INSTEAD

First, identify the correct market via `search_symbol` or `get_crypto_daily`. Then use tools specific to that domain (like `get_forex_daily`) rather than general stock functions.

Forgetting context and depth

X AVOID

Just getting a list of company fundamentals without seeing the historical earnings or sector performance, resulting in an incomplete picture.

✓ INSTEAD

Always layer your analysis. Pull `get_company_overview` first, then check `get_earnings` to see if those current numbers are improving over time.

The Right Fit

Use this Alpha Vantage MCP when you need comprehensive market intelligence that spans multiple asset classes—stocks, crypto, forex, and commodities—in a single chat session. It's perfect for quantitative analysis where context is everything. Don't use it if you only need basic web search results; your AI client needs structured data, not general articles. Also, don't rely on it for predictive guarantees; the tools provide historical facts and indicators (like `get_rsi`), but they don't predict tomorrow's market movement. If all you need is a simple 'yes/no' answer about a company, check out basic search engines first.

Alpha Vantage MCP: Solving Manual Stock Data Retrieval

Today, checking stock prices or technical indicators means jumping through hoops. You open your broker terminal for real-time quotes, then maybe switch to a separate website to check fundamentals, and finally, you might need a third tool just to calculate the RSI on historical data. It's copy-pasting hell.

With this MCP, that whole mess disappears. Your AI agent handles it all. You ask for current prices and technical indicators like MACD, and it delivers clean, structured analysis. What you get is an immediate, comprehensive report without ever leaving your chat window.

Alpha Vantage MCP: Tracking Global Financial Trends

Manually tracking global trends requires monitoring multiple data feeds: the performance of all 11 sectors, daily crypto rates, and weekly stock movements. You'd have to manually check each dashboard just to compare them.

This MCP lets you aggregate that view instantly. You can ask for a comparison between sector performance and cryptocurrency volatility in one go. It turns fragmented data points into cohesive market narratives.

Alpha Vantage MCP: 13 Tools for Financial Analysis

These tools let you access every kind of market data imaginable—from specific company financials to global crypto movements—all through natural conversation.

#	TOOL	DESCRIPTION
01	<code>get_company_overview</code>	Retrieves fundamental data points like the company's market cap, P/E ratio, and general corporate overview for initial screening.
02	<code>get_crypto_daily</code>	Fetches daily price movement records for any specified cryptocurrency pair (e.g., BTC to USD).
03	<code>get_daily_time_series</code>	Gets the standard daily stock OHLCV data, allowing you to choose between compact (last 100 points) or full historical records.
04	<code>get_earnings</code>	Provides a history of a company's reported earnings figures, helping identify consistent growth patterns.
05	<code>get_forex_daily</code>	Returns daily OHLCV data for foreign exchange pairs, tracking the movement between two currencies like EUR and USD.
06	<code>get_intraday_time_series</code>	Gathers granular price data at specific intervals (1 min, 5 min, etc.), which is essential for day traders analyzing short-term shifts.
07	<code>get_monthly_time_series</code>	Provides summary data points representing each month of trading, ideal for reviewing long-term portfolio health and trends.
08	<code>get_news_sentiment</code>	Analyzes recent news articles about a ticker, scoring the overall sentiment as bullish or bearish.
09	<code>get_quote</code>	Pulls current trading data immediately, including the day's change and percentage movement from yesterday's close.
10	<code>get_rsi</code>	Calculates the Relative Strength Index (RSI) on various timeframes to determine if a security is overbought or oversold.
11	<code>get_sector_performance</code>	Shows the current percentage change and performance metrics across all 11 major market sectors.
12	<code>get_weekly_time_series</code>	Returns data points summarizing a week of trading, useful for medium-term trend analysis without getting bogged down in daily noise.
13	<code>search_symbol</code>	Finds the correct stock symbol by name or keyword to ensure you're querying the right asset before pulling any data.

See It in Action

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

U Show me the current quote and recent news sentiment for NVDA.



NVIDIA Corporation (NVDA)

- **Current Quote:** \$912.50, up 4.8% today. Range: \$900 - \$915.
- **Recent Sentiment Score:** Bullish (78/100). The news is dominated by reports of AI chip demand and successful partnerships.

Summary: Strong momentum supported by positive industry news.

U Compare the historical performance of BTC vs Gold.



Bitcoin (BTC) vs. Gold (XAU)

TIMEFRAME	BTC DAILY CHANGE (%)	XAU WEEKLY CHANGE (%)
Last 4 Weeks	+12.5%	-3.1%

Interpretation: Bitcoin has shown significantly stronger gains over the past month compared to Gold, indicating a shift in investment appetite.

U What are the biggest money movers right now?



Based on current data:

- Technology Sector:** +2.1% (Leading performance due to semiconductor demand.)
- Healthcare Sector:** +1.5% (Driven by new biotech funding announcements.)
- Energy Sector:** -0.3% (Oil prices stabilizing after recent peaks.)

Action: Technology is currently the strongest area for gains.

Frequently Asked Questions

01 How can I use Alpha Vantage MCP to track daily stock quotes and indicators?

You just ask your agent for it. It pulls the current price, volume, and key technical metrics like RSI or MACD automatically. This gives you a full picture of whether the stock is currently overbought or oversold.

02 Does Alpha Vantage MCP help me compare different asset types?

Yes, it handles multiple classes in one place. You can compare crypto rates (like BTC) against traditional stocks and even monitor forex pairs all using the same conversation flow.

03 What if I need long-term data for research?

You don't have to manually pull decades of records. The MCP lets you specify time frames, giving you monthly or full historical OHLCV data spanning over 20 years for deep analysis.

04 Is Alpha Vantage MCP useful for developers building apps?

Absolutely. It provides structured market feeds using tools like `get_daily_time_series`, allowing you to programmatically pull reliable historical and real-time data into your custom applications.

05 Can I check company financials and news sentiment together?







Yes. You can first use the MCP to retrieve a company's fundamentals (market cap, P/E ratio) and then instantly cross-reference that with recent news articles to understand if the market narrative matches the financial reality.

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>"alpha-vantage": { "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

Alpha Vantage 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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DOCUMENT INFORMATION

Generated	June 2026
MCP Server	Alpha Vantage MCP
Server ID	019d8415-7aa8-73b5-aff8-32326087054e
Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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