

MCP SERVER

NO CODE

CLOUD HOSTED

Bitstamp MCP for AI Agents

Monitor live cryptocurrency prices, order books, and transaction balances

Bitstamp connects your AI agent to a major cryptocurrency exchange. You can check real-time market data, view order books for pairs like BTC/USD, track your account balances across multiple currencies, and manage open orders directly through natural conversation.

A+ Quality Score 100/100

crypto-trading

market-monitoring

account-balance

rest-api

order-management

financial-data



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.

Bitstamp MCP

7 tools available

Cloud-hosted on Vinkius

This MCP gives your AI client direct access to Bitstamp's trading environment. Instead of juggling browser tabs or using a clunky command line, you talk to your agent about crypto markets, and it handles the rest. You can ask for instant tickers across hundreds of pairs, check if you have enough funds to place a trade, or verify exactly what trades went through last month.

Whether you're watching market depth during high volatility or simply need a quick summary of your portfolio holdings, this integration makes it simple. It connects all that data—balances, transactions, and live pricing—into one chat window. Because Vinkius hosts this MCP, you connect once from any compatible AI client and get access to these critical financial operations right where you work.

Core Capabilities

01 — Check current crypto balances

Retrieves your available funds across all supported cryptocurrencies.

02 — Monitor live market prices and depth

Gets the latest trading ticker and detailed order book information for any specified currency pair.

03 — Review transaction history

Pulls a chronological record of all your personal trades and account activity.

04 — List and manage open orders

Shows you which limit or market orders are currently active on your account, allowing for immediate cancellation.

One Click on Vinkius — From Prompt to Execution

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

- 01** Subscribe to this MCP in the Vinkius catalog and provide your Bitstamp API Key and Secret credentials.
- 02** Your AI client authenticates with these keys, establishing a secure connection to Bitstamp's live data feeds.
- 03** You ask your agent for market data or account details naturally, and it executes the required calls to fetch and summarize the information.

The bottom line is that you talk about crypto trading in plain English, and the MCP handles all the necessary API calls and security protocols behind the scenes.

Built For

This tool is built for anyone who treats cryptocurrency as a serious asset class. It targets traders who need speed during market spikes and portfolio managers needing clear, auditable records of funds and performance.

Day Trader

Needs instant access to the current order book and ticker prices to quickly spot entry or exit points without switching apps.

Portfolio Manager

Requires reliable reporting on historical transactions and aggregated account balances across various crypto holdings for compliance checks.

Crypto Analyst

Uses the MCP to pull specific market data points, like listing all available trading pairs or reviewing transaction patterns, to inform investment theses.

What Changes When You Connect

- 01** Real-time market data: Instantly get the current ticker price or view the full depth of the order book using the `get_ticker` tool, allowing you to react immediately during volatility.

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- 02 Full account visibility: Check your available funds across all currencies by calling `get_balance`, so you always know exactly how much capital you can deploy for a trade.

 - 03 Proactive risk management: See what's pending with `get_open_orders` and use the `cancel_order` tool to pull back trades if market conditions change suddenly.

 - 04 Audit trail access: Pull your full transaction history using `get_user_transactions`, giving you a clear, comprehensive record for accounting or performance review.

 - 05 Market scope mapping: Discover every available asset by calling `list_trading_pairs`, ensuring you don't miss out on niche pairs that might fit your strategy.
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Real-World Applications

Checking immediate liquidity before a trade

You need to know if there are enough buy orders at the current price. You ask your agent, and it uses `get_order_book` to show you the depth of available sellers for BTC/USD, confirming you can execute a large purchase immediately.

Confirming funds for a new pair

You're considering trading XRP/ETH. You first ask your agent to `list_trading_pairs` to confirm support, then use `get_balance` to verify you have enough ETH available before proceeding.

Reviewing yesterday's performance

At the end of the day, you want a full financial picture. You ask your agent to run `get_user_transactions`, and it summarizes all trades from the last 24 hours so you can file reports instantly.

Closing out unused positions

A trade thesis fails, and you need to stop a limit order. You ask your agent to `get_open_orders`, confirm the ID of the unwanted order, and use `cancel_order` to immediately remove it from your active portfolio.

Patterns to Avoid

Checking prices manually

✗ AVOID

Opening the Bitstamp website, navigating to BTC/USD, refreshing the page multiple times, and writing down the price.

✓ INSTEAD

Use your agent. Simply ask it to ``get_ticker`` for BTC/USD. The agent fetches the real-time data directly into your chat window without you leaving your workspace.

Forgetting open positions

✗ AVOID

Thinking a trade order was canceled, only to find out it's still active and costing money.

✓ INSTEAD

Don't guess. Always ask the agent to run ``get_open_orders``. This shows you every single pending trade so you can verify its status immediately.

Confusing balance types

✗ AVOID

Assuming your USD cash is available for trading when it's actually reserved or held in a different account.

✓ INSTEAD

Run ``get_balance``. This function aggregates and reports all available funds across every supported currency, giving you the definitive number.

The Right Fit

Use this MCP if your workflow requires constant, verifiable access to live trading data: current order book depth, real-time pricing, or multi-currency balance checks. It's perfect for automated monitoring and detailed portfolio auditing.

Don't use it if you only need general crypto news or conceptual advice on investing strategies; those require large language models alone. If your primary task is just writing reports based on historical data that isn't tied to an account, a document analysis tool might be better. However, if the decision hinges on what *money* you have right now, or what the market is doing in the next five minutes, this MCP is essential.

Bitstamp MCP for AI Agents: Streamlining Crypto Market Monitoring

Today, monitoring a crypto pair means opening Bitstamp's site, checking the ticker, then switching to your wallet extension to check balances, and finally maybe opening another tab just to see if an order is still active. It's a stop-start cycle of copy-pasting data across five different windows.

With this MCP, you keep everything in one conversation thread. You ask for the market depth on ETH/USD; it pulls up the full order book instantly. Better yet, you can check your available funds and list your open orders—all without clicking anything.

Bitstamp MCP for AI Agents: Managing Crypto Order Lifecycle

When an investment thesis shifts, the manual process is terrible. You have to remember if you had a limit order open and then manually log back into the platform to cancel it, wasting time and risking missed trades.

Now, you just tell your agent: 'Cancel my BTC buy order.' It uses `cancel_order` and handles the API call instantly. Your capital stays protected, and you move on without any friction.

7 Tools in the Bitstamp MCP: Trading & Account Data

Use these tools to check account balances, list open orders, pull transaction history, and monitor real-time market data for crypto pairs.

#	TOOL	DESCRIPTION
01	<code>cancel_order</code>	Cancels a specified open order on your Bitstamp account.
02	<code>get_balance</code>	Retrieves the current available funds for all supported currencies in your account.
03	<code>get_open_orders</code>	Lists every limit or market order that is currently active on your account.
04	<code>get_order_book</code>	Shows the current list of buy and sell orders (the depth) for a specific currency pair.
05	<code>get_ticker</code>	Fetches the absolute latest market price data for any given trading pair.
06	<code>list_trading_pairs</code>	Provides a list of all available cryptocurrency pairs that can be traded on Bitstamp, along with their rules.
07	<code>get_user_transactions</code>	Retrieves the comprehensive history of all trades and movements in your personal account.

See It in Action

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

U What's the current price range for ETH/USD and how much BTC do I have?



ETH/USD Market Snapshot

- **Last Price:** \$3,450.21
- **Day High:** \$3,600
- **Order Book Depth (Top 5):**
 - * Buy: \$3,449 @ 5.1 ETH
 - * Sell: \$3,451 @ 7.2 ETH

Your Balances

You currently hold **0.82 BTC** and 1,200 USD.

U Can you check my open orders and tell me what the transaction history looks like?



Active Orders Found:

- Sell Order: 1 ETH @ \$3,450.00 (Expires Today)
- Buy Limit: 0.1 BTC @ \$87,000 (Pending)

Recent Transactions Summary:

DATE	TYPE	PAIR	AMOUNT	STATUS
Yesterday	Trade	XRP/USD	+500 XRP	Completed
2 days ago	Deposit	USD	+1,200 USD	Cleared

U List the pairs I can trade and what my total balance is.

**Available Trading Pairs (Partial List):**

- BTC/USD: Active. Min Trade: 0.01 BTC.
- ETH/USD: Active. Min Trade: 0.5 ETH.
- XRP/USD: Active. Min Trade: 10 XRP.

Current Account Summary

CURRENCY	BALANCE
USD	\$1,200.50
BTC	0.45
ETH	1.2

Frequently Asked Questions

01 How do I use the Bitstamp MCP to check live crypto prices?

You simply ask your agent for the current ticker price of any pair (e.g., BTC/USD). It pulls the real-time data directly into your chat, giving you immediate market insight without leaving your workflow.

02 Can I use Bitstamp MCP to manage my open orders?

Yes. You can list all active orders using ``get_open_orders``, and if something changes, you can tell the agent to cancel it immediately through a simple command.

03 What kind of balance information does Bitstamp MCP provide?

It gives you a comprehensive view of your funds across all supported currencies. You'll know exactly how much capital is available for trading at any given moment using the ``get_balance`` function.

04 Is Bitstamp MCP only for checking prices, or can it help with my money?

It does both. Besides monitoring live market data, you can also pull your full transaction history and see what pairs are available to trade, making it a complete financial tool.

05 What if I want to know the deepest current sell/buy orders?

You ask for the order book. The MCP retrieves the depth of the market for a specific pair, showing you not just the last traded price, but the actual stack of pending buy and sell limit orders.

06 Does Bitstamp MCP work with multiple crypto exchanges?

No, this MCP is specifically designed to connect only to your private Bitstamp account. It provides deep data for that single platform, ensuring consistency and reliability for your trades there.

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 `"bitstamp": { "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

Bitstamp 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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