MCP SERVER | NO CODE | CLOUD HOSTED

Bybit MCP for AI Agents

Analyze live cryptocurrency price action and order book depth

Bybit gives your AI agents instant access to live crypto market data. You pull real-time tickers, view candlestick charts (OHLCV) for technical analysis, and track the current orderbook depth for any trading pair. It also provides deep dives into derivatives metrics like funding rates and open interest—all without needing an API key for public market information.

A+ Quality Score 100/100

cryptocurrency | market-data | trading-pairs | orderbook | real-time-sync | derivatives

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vinkius.com/mcp/bybit

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.

Bybit MCP

10 tools available
Cloud-hosted on Vinkius

This MCP lets your agent read the live pulse of the crypto markets directly from Bybit. You don't need to mess with API keys just to check prices or view historical charts; it handles all that in plain language. Want to see how volatile BTC has been? Just ask for kline data across different timeframes, or check the current orderbook depth before making a trade decision. Need to know if perpetual contracts are expensive right now? Get the latest funding rates history and track open interest changes over time. Since Vinkius hosts this MCP in their catalog, you just connect your preferred AI client once and instantly get access to all this critical market intelligence.

Core Capabilities

01 — Fetch real-time pricing metrics

Get current prices, 24h ranges, and volume for any trading pair using the `get_tickers` tool.

02 — Analyze historical price patterns

Retrieve candlestick (OHLCV) data across various timeframes with `get_kline` to analyze market trends.

03 — View current market depth and liquidity

Check the bids and asks using `get_orderbook`, which shows exactly where buying and selling pressure exists right now.

04 — Track derivatives funding rates

Use `get_funding_history` to see how much longs pay shorts over time for perpetual contracts.

05 — Examine open interest changes

Monitor total open positions with `get_open_interest` across different contract types.

One Click on Vinkius — From Prompt to Execution

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

01 Subscribe to the Bybit MCP in Vinkius and connect it to your AI client.

02 Your agent executes a request, specifying which data point is needed (e.g., 'Give me the last 10 daily candles for ETHUSDT').

03 The MCP pulls the real-time or historical market data and returns clean, structured information directly into your conversation.

The bottom line is that you talk to your agent like a human talking to a colleague, and it handles all the complex crypto exchange calls for you.

Built For

This MCP is built for anyone who needs reliable, deep market data. If you're an analyst staring at dashboards until 2 AM, or a developer building trading bots that need live feeds, this saves massive amounts of time.

Quantitative Analyst

You use the MCP to pull kline data and funding rate history to backtest complex strategies without manually downloading spreadsheets.

Crypto Trader

You check the current orderbook depth and recent trades in real time to gauge immediate market sentiment before executing a large trade.

Software Developer

You integrate market data into dashboards or trading bots using the raw feeds provided by this MCP, bypassing complex exchange API setups.

What Changes When You Connect

01 Immediate market insight: Use `get_tickers` to get real-time prices, 24h changes, high/low, and volume for any pair instantly.

02 Deep technical analysis: Pull detailed OHLCV data across various timeframes using `get_kline` for rigorous backtesting.

03 Liquidity assessment: Check the current market depth and liquidity by calling `get_orderbook`, seeing exactly where bids and asks are clustered.

04 Derivatives monitoring: Track complex metrics like funding rates via `get_funding_history` and open interest with `get_open_interest` for professional analysis.

05 Comprehensive data access: The MCP covers spot, linear, inverse, and options markets, giving your agent one source for all trading pairs.

Real-World Applications

Checking pre-trade risk exposure

Before running a simulated trade, ask your agent to use `get_orderbook` along with `get_recent_trades`. This tells you if the market is thin and gives you an idea of immediate buying/selling pressure.

Validating technical indicators

To verify a potential breakout, ask for historical OHLCV data using `get_kline` over multiple timeframes. You can then compare this to the mark price klines from `get_mark_price_kline`.

Assessing perpetual contract health

If you suspect market divergence, ask for both funding rates (`get_funding_history`) and open interest data using `get_open_interest` to understand the long/short balance.

Patterns to Avoid

Relying on single price points

✗ AVOID

Assuming a recent ticker price is enough because it's simple. This misses critical context about market depth or historical volatility.

✓ INSTEAD

Always cross-reference the current `get_tickers` with the full orderbook data from `get_orderbook`. This gives you the 'why' behind the price, not just the 'what'.

Ignoring time synchronization

✗ AVOID

Using general API calls that don't confirm the exchange's current time, leading to bad data reads.

✓ INSTEAD

Start by calling `get_server_time` to ensure your agent knows exactly when it's pulling market data. This keeps everything synchronized.

Forgetting contract types

✗ AVOID

Asking for kline data without specifying if you mean 'spot,' 'linear,' or 'inverse.' The results will be wrong.

✓ INSTEAD

Use `get_instruments` first to browse available pairs and understand which categories (like spot vs. inverse) are relevant to your current analysis.

The Right Fit

Use this MCP if you need historical or real-time crypto market data for analysis, development, or trading decisions. You must be able to name specific metrics like 'funding rate' or 'OHLCV candle' to know it’s right for you.

Don't use it if your goal is just simple news aggregation or general coin price checking—a basic search engine works fine for that. If all you need are static, non-crypto related records (like user directories), this MCP won't help. It is built purely around the complex mechanics of crypto trading and market liquidity.

Bybit MCP: Analyzing Live Crypto Market Depth

Manually analyzing a crypto pair means clicking through multiple tabs on an exchange interface. You check the ticker for the current price, then switch to the order book view to see depth, and finally go back to charting tools to plot OHLCV candles. It's slow, requires constant context switching, and you often miss correlating signals between these views.

With this MCP, your agent pulls all that data instantly. You ask for market depth, and it gives the `get_orderbook` results; next, you ask for recent trades, and it provides the flow via `get_recent_trades`. You get a complete picture of liquidity without leaving your AI client.

Bybit MCP: Tracking Derivatives Performance

Traditionally, assessing derivatives requires juggling multiple metrics. You have to check the mark price candles, then look up funding rates separately, and finally track open interest changes—each step is isolated, forcing you to piece together a full picture manually.

Now, your agent pulls all these specialized data points in one go. You can ask for both `get_mark_price_kline` and historical funding rates (`get_funding_history`), giving you a comprehensive view of the market's leveraged health instantly.

Bybit: 10 Tools for Crypto Market Data Analytics

Use these tools to pull everything from real-time tickers and current orderbooks to historical kline charts and funding rate data.

#	TOOL	DESCRIPTION
01	`get_funding_history`	Retrieves a historical record of funding rates for perpetual contracts.
02	`get_index_price_kline`	Fetches candlestick data representing the composite index price across multiple exchanges.
03	`get_instruments`	Lists all available trading pairs and contract specifications from Bybit's market.
04	`get_kline`	Gets detailed candlestick data (OHLCV) for technical analysis across spot, linear, or inverse markets.
05	`get_mark_price_kline`	Provides candlestick data specifically calculated using the mark price, which is key for derivatives liquidation checks.
06	`get_open_interest`	Tracks how many total open positions exist over time for a specific derivatives contract.
07	`get_orderbook`	Displays the current market depth by returning active buy bids and sell asks at different price levels.
08	`get_recent_trades`	Returns a list of the latest executed trades, including size, side (buy/sell), and timestamp for tracking order flow.
09	`get_server_time`	Provides the current official Bybit server time to ensure accurate request synchronization.
10	`get_tickers`	Retrieves real-time market prices and metrics for any specific crypto trading pair across all contract types.

See It in Action

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

U What is the current trading activity on BTCUSDT?

BTCUSDT Market Snapshot

- **Current Price:** $104,250.00 (Up 2.34% today)
- **Orderbook Depth:**

* Bids: 15 BTC @ $104,248; 50 BTC @ $104,245
* Asks: 20 BTC @ $104,260; 30 BTC @ $104,270

- **Latest Trades:** Last five trades show heavy selling pressure on the bid side.

U Show me the funding rates and open interest for ETHUSDT.

ETHUSDT Derivatives Health Check

- **Funding Rate:** 0.012% (Positive rate means longs pay shorts. Next payment in 4 hours.)
- **Open Interest Trend:** Open interest has increased by 5,000 ETH over the last 4 hours across linear contracts.
- **Analysis:** The rising open interest paired with a positive funding rate suggests significant new long capital is entering the market.

U I need candlestick data for the last 7 days on BTCUSDT.

BTCUSDT Daily Candles (Last Week)

DATE	OPEN	HIGH	LOW	CLOSE
Mon	$100k	$102k	$99k	$101.5k
Tue	$101.5k	$103k	$101k	$102.8k
Wed	$102.8k	$104k	$102.5k	$103.9k
Thu	$103.9k	$104.5k	$103.5k	$104.1k
Fri	$104.1k	$106k	$104k	$105.8k
Sat	N/A	N/A	N/A	N/A
Sun	N/A	N/A	N/A	N/A

Data is sourced from the main exchange index price.

Frequently Asked Questions

01 **How can I use the Bybit MCP to check real-time crypto prices?**

You simply ask your agent for a specific pair, like Bitcoin. It uses `get_tickers` to give you immediate pricing, 24-hour changes, and volume metrics. This is perfect for quick market checks right in your chat window.

02 **Can I use Bybit MCP to check historical price trends?**

Yes. You can fetch detailed candlestick (OHLCV) data using `get_kline` across various timeframes, from 1-minute intervals up to monthly candles. This lets you run deep technical analyses.

03 **What is the best way to check market liquidity with Bybit MCP?**

You should use `get_orderbook`. This tool shows a live map of current bids and asks, letting you see exactly how much volume exists at specific price levels right now. It's key for understanding immediate trading risk.

04 **Does the Bybit MCP help with derivatives tracking?**

Absolutely. You can track complex metrics like funding rates (`get_funding_history`) and open interest movements (`get_open_interest`). This gives you visibility into the leveraged health of the market, which is crucial for advanced strategies.

05 **Is an API key required to use the Bybit MCP?**

No. For all the public market data—tickers, klines, orderbook, and trades—you don't need to manage or supply any private API keys when using this MCP.

06 **How do I know which contract types are available through Bybit MCP?**

You can call the `get_instruments` tool. It lists every available trading pair and contract type (spot, linear, inverse, etc.), helping you target your analysis correctly.

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 `"bybit": { "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

Bybit 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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