

MCP SERVER

NO CODE

CLOUD HOSTED

ExchangeRate-API MCP

Get Real-Time Global Currency Conversion & Auditing

ExchangeRate-API MCP gives your AI agent instant access to global currency data. Need to convert amounts between any two currencies, check real-time exchange rates, or audit historical financial trends? This tool provides reliable conversion and market intelligence for over 160 world currencies through natural conversation.

A+ Quality Score 100/100

currency-conversion

historical-rates

forex

financial-api

global-markets



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 — connect your AI agent in under 60 seconds.

ExchangeRate-API MCP

5 tools available

Cloud-hosted on Vinkius

Your agent needs accurate, up-to-the-minute financial data. With this MCP, you get instant access to current and historical exchange rates across more than 160 global currencies. You can ask your AI client anything about currency pairs—from calculating how many Brazilian Reais you'll get for 100 USD right now, to figuring out what that rate was on a specific date last year. It handles everything automatically. Whether you're managing international e-commerce or running financial reports, this MCP acts like a dedicated global analyst built directly into your workflow. If you use Vinkius, you connect once and gain access to this powerful currency intelligence alongside thousands of other specialized tools.

Core Capabilities

01 — Convert specific amounts

It calculates the exact exchange rate or converts a given sum between any two selected currencies.

02 — Get live market rates

It fetches the latest, real-time exchange rates using any chosen currency as the base.

03 — Audit past financial data

You can retrieve the specific exchange rate for a given pair on any date in history.

04 — List all supported currencies

It provides a complete list of every currency code and available metadata, like full names and flags.

One Click on Vinkius — From Prompt to Execution

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

- 01 Subscribe to the ExchangeRate-API MCP and provide your unique API key.
- 02 Instruct your AI client to perform a financial task (e.g., 'What was USD to EUR on 2020-01-01?').
- 03 The MCP executes the request, retrieves the accurate exchange rate data, and returns the answer directly through your chat or code environment.

The bottom line is you ask a question in plain language, and the tool handles the complex financial calculations behind the scenes.

Built For

This MCP solves problems for anyone whose job depends on accurate global numbers. You're the e-commerce manager staring at fluctuating pricing sheets or the accountant who dreads manual currency audits. Your agent finally acts like a dedicated, always-on finance desk.

Financial Analyst

You use this to quickly calculate conversions and pull historical rates for quarterly reports without opening separate financial terminal windows.

E-commerce Manager

You rely on real-time exchange rates when setting global pricing strategies, ensuring your store displays accurate costs in every market.

International Accountant

You audit cross-border transactions by fetching specific historical rates to comply with regulatory reporting requirements.

What Changes When You Connect

- 01 Automate rate lookups. Instead of searching multiple financial websites, your agent handles all live data requests using `get_latest_rates`, giving you one source of truth.

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- 02 Perform deep dives into market trends. The MCP lets you audit currency pairs by fetching historical rates with `get_historical_rates` for compliance or trend analysis.

 - 03 Simplify global pricing. You can instantly calculate precise conversions using the `convert_currency_pair` tool, ensuring your product costs are accurate in every market.

 - 04 Understand the full scope of data available. Use `list_supported_currencies` to confirm if a niche currency is supported before writing complex financial code.

 - 05 Enrich your knowledge base. Beyond just rates, you can get detailed country info and flags using `get_enriched_currency_data`, which helps validate input data.
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Real-World Applications

Checking tax compliance for international sales

An accountant needs to know the exact rate of USD to CAD on October 15th, 2023, because that's when a transaction closed. They ask their agent, and it uses `get_historical_rates` to pull the precise figure needed for quarterly tax filing.

Validating a list of currencies

A developer is building a payment gateway and needs to ensure they support every regional currency. They use `list_supported_currencies` to get the full master list, validating their code against the official data set.

Optimizing global e-commerce pricing

An e-commerce manager needs to adjust prices across five countries instantly. They ask the agent to fetch live rates using `get_latest_rates` and calculate new totals for all markets, preventing lost revenue from outdated exchange values.

Quickly calculating conversion for travel budgets

A user planning a trip asks, 'How much is \$1000 USD in Japanese Yen right now?' The agent uses `convert_currency_pair` and immediately reports the current figure, allowing instant budget adjustments.

Patterns to Avoid

Treating rates as static data

✗ AVOID

Assuming that because a rate was 1.0 USD to 0.9 EUR last month, it will still be that rate today for reporting purposes.

✓ INSTEAD

Always ask the agent to fetch current figures using ``get_latest_rates`` or specify the required date with ``get_historical_rates``. Never rely on assumed rates.

Forgetting currency codes

✗ AVOID

Typing 'US Dollar' instead of the necessary three-letter code like USD, which causes the API to fail or return null data.

✓ INSTEAD

First run ``list_supported_currencies`` to confirm the exact required codes (e.g., JPY, GBP). Then use those specific codes in any conversion tool.

Over-complicating a simple conversion

✗ AVOID

Trying to write complex Python logic involving multiple API calls when all you need is one quick calculation.

✓ INSTEAD

For simple, immediate calculations, use the ``convert_currency_pair`` tool. It handles the math and data retrieval in one step.

The Right Fit

Use this MCP if your job requires dealing with dynamic, global financial numbers—specifically rates, conversions, or historical auditing of those rates. This is for finance, e-commerce, travel tech, or any system that processes money across borders.

Don't use it if you just need to convert a simple number (e.g., miles to kilometers) or if your currency data never changes. For static calculations, a basic mathematical tool will suffice. If you only need metadata about the world in general and don't care about money, this MCP is overkill. When in doubt, check if the task involves cross-border transactions; if it does, this MCP is what you need.

Tracking international finances is a mess of tabs and spreadsheets.

Today, checking a foreign exchange rate requires opening your bank's website, then switching to your e-commerce platform, maybe pulling up a dedicated finance terminal. You copy the base currency code into one place, switch over to another tab for the target currency, and finally open a third sheet just to run the calculation. It takes clicks, context switches, and inevitably, you end up with stale data.

With this MCP, all that disappears. You tell your agent what you need—like 'What was the rate from AUD to EUR on July 1st?'—and it handles the whole process. You get the exact answer instantly, without leaving your workflow.

The ExchangeRate-API MCP gives you accurate currency data automatically.

Manual cross-referencing means risking errors and wasting time confirming rates across different sources. You waste minutes comparing a rate from Google Finance against one from your accounting software, hoping they match.

Now, the agent manages all that complexity for you. When you ask it to convert amounts or run historical audits using `convert_currency_pair` or `get_historical_rates`, you get reliable data directly in the chat. It's fast and accurate.

ExchangeRate-API: Tools and Capabilities (5)

Use these tools to manage global financial calculations, fetching live market rates or auditing specific currency conversions across history.

#	TOOL	DESCRIPTION
01	<code>get_enriched_currency_data</code>	Retrieves detailed information and metadata about a specified currency, including its full name and flag.
02	<code>get_historical_rates</code>	Fetches the exchange rate for a specific currency pair on any past date you provide.
03	<code>get_latest_rates</code>	Retrieves the most current, live exchange rates using a specified base currency.
04	<code>convert_currency_pair</code>	Performs an immediate conversion calculation between two chosen currencies for a specific amount.
05	<code>list_supported_currencies</code>	Provides a complete list of all currency codes and identifies the system supports.

See It in Action

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

U Convert 100 USD to Brazilian Real.



Retrieving the latest rate for USD/BRL... 100 USD is currently equivalent to approximately 500 BRL. Would you like me to check the historical rate for this pair?

U Show the current exchange rates for EUR.



Fetching latest rates with EUR as the base currency... I've identified the exchange values for 160+ currencies, including USD (1.08), GBP (0.85), and JPY (162.50). Shall I list more?

U What was the exchange rate for USD to EUR on January 1st, 2020?



Retrieving historical data for 2020-01-01... On that day, 1 USD was worth approximately 0.89 EUR. I can pull the full data table for that specific date if you need.

Frequently Asked Questions

01 How does ExchangeRate-API MCP handle rates for currencies I don't know?

You should start by running ``list_supported_currencies``. This tool gives you the full list of supported codes, so you always use the right input.

02 Can ExchangeRate-API MCP calculate conversions for old dates?

Yes. Use the ``get_historical_rates`` function and provide a specific date; it retrieves rates even if they are months or years in the past.

03 Is the data from ExchangeRate-API MCP real-time enough for e-commerce?

The ``get_latest_rates`` tool provides current, live exchange rates, which is generally sufficient for optimizing global pricing strategies in real time.

04 What if I need more information about a currency besides just the rate?

You can use the ``get_enriched_currency_data`` tool. It pulls rich metadata, including full names and flags for any supported currency code.

05 Does ExchangeRate-API MCP support all 160+ currencies?







The API supports over 160 currencies, but always confirm the specific codes you need by calling ``list_supported_currencies`` to guarantee coverage.

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>"exchangerate-api": { "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

ExchangeRate-API 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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