MCP SERVER | NO CODE | CLOUD HOSTED

BCB Full MCP for AI Agents

Analyze Brazilian macroeconomic trends and historical financial time series.

BCB Full is the definitive connection to Brazil's Central Bank data. It gives your AI client instant access to 20,000+ historical time series across four major domains: currency exchange, interest rates (Selic, CDI), inflation indices (IPCA, IGP-M), and key economic indicators like GDP, debt, and trade balance. Stop searching multiple government sites; get everything in one place.

D Quality Score 51.59/100

central-bank-data | macroeconomics | inflation-indices | interest-rates | financial-time-series | economic-forecasting

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vinkius.com/mcp/bcb-full-inteligencia-financeira-completa-do-brasil

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.

BCB Full — Inteligência Financeira Completa do Brasil MCP

21 tools available
Cloud-hosted on Vinkius

Need to model the Brazilian economy? This MCP connects your AI client directly to 20,000+ time series from the Central Bank of Brazil. Forget digging through complex data portals or cross-referencing different rate sheets. With this connector, you ask for a specific metric—say, how did the IPCA compare to the Selic target over the last decade—and you get clean, actionable historical data back. You can track currency fluctuations using PTAX rates across 150+ global currencies, or pull monthly GDP variations and national debt as a percentage of PIB. This level of depth is crucial for any serious financial analysis. If your workflow needs reliable, deep dives into Brazilian macroeconomics, this MCP makes it happen, all managed through the Vinkius catalog.

Core Capabilities

01 — Track Currency Exchange Rates

Get historical PTAX and SGS data for the US dollar or any of the 150+ available foreign currencies.

02 — Analyze Inflation Trends

Compare major inflation metrics like IPCA, IGP-M, INPC, and market expectations (Focus Survey) over time.

03 — Monitor Interest Rate Cycles

Retrieve the Selic target rate, daily effective rates, and the CDI benchmark for investment analysis.

04 — Calculate Economic Indicators

Access fundamental metrics like GDP (via IBC-Br proxy), public debt to PIB ratio, and international reserves.

05 — Assess Market Activity

Retrieve data on the PIX payment system's volume or analyze Brazil's trade balance over periods.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/bcb-full-inteligencia-financeira-completa-do-brasil** — connect your AI agent in three steps.

01 Tell your AI client what specific Brazilian economic metric you need, including the target date range and currency.

02 The MCP executes multiple calls to the Central Bank's structural data engines (SGS + Olinda OData) simultaneously.

03 You receive a consolidated report containing the requested time series data for all specified indicators.

The bottom line is, you get immediate, unified access to some of the most detailed and historical financial metrics available in Brazil.

Built For

This MCP is built for macroeconomists, quantitative analysts, and corporate treasury teams. If your job requires understanding how inflation affects debt covenants or predicting rate movements based on historic data, you need this. It saves hours of manual API construction.

Quantitative Analyst

Runs back-testing scenarios comparing the historical relationship between the CDI rate and international reserves.

Economist

Compares multiple inflation indices (IPCA, IGP-M) against market expectations derived from Focus Survey data to write a quarterly report.

Treasury Manager

Analyzes the debt/PIB ratio and trade balance history to advise on foreign exchange risk mitigation strategies.

What Changes When You Connect

01 Compare inflation metrics instantly. You can compare the official IPCA rate against alternative indices like IGP-M or INPC without manually querying different datasets.

02 Deep dive into currency movements. Use get_dolar_periodo to track PTAX rates over years, while also using list_moedas for access to 150+ exotic currencies.

03 Build comprehensive economic models. Access multiple critical metrics like GDP (get_pib), public debt (get_divida_pib), and international reserves (get_reservas) in one query.

04 Understand interest rate cycles. Track the Selic target (get_selic_meta) alongside the daily effective rate (get_selic_diaria) to model policy impact.

05 Forecast market movements. Compare institutional projections using get_expectativas_inflacao or get_expectativas_selic against historical data points.

Real-World Applications

Assessing investment risk in Brazil

A portfolio manager needs to know if a fixed-income asset is safe. They ask their agent to compare the current CDI rate and Selic target against historical data, providing immediate context on yield fluctuations.

Writing an inflation report

An economist drafts a paper comparing consumer cost pressures. They query get_ipca for the main index, but also use get_igpm and get_inpc to show how different segments of the population are affected.

Forecasting currency stability

A corporate treasurer needs to hedge against potential BRL devaluation. They ask the agent to pull both the PTAX dollar quote (get_cotacao_dolar) and the SGS historical data (get_dolar_sgs) for maximum coverage.

Analyzing economic growth cycles

A research team wants to link GDP performance to debt levels. They combine get_pib results with the get_divida_pib series to plot long-term fiscal sustainability trends.

Patterns to Avoid

Only checking today's rates

✗ AVOID

Asking only for the current PTAX quote or Selic rate, which gives a single number but no context.

✓ INSTEAD

Always look at historical trends. Use get_dolar_periodo instead of just get_cotacao_dolar to see how the currency behaved over a full year.

Ignoring inflation variance

✗ AVOID

Assuming IPCA is enough for an inflation assessment, missing key cost indicators.

✓ INSTEAD

Never rely on just one index. Compare get_ipca with get_igpm and get_inpc to give a full picture of price pressures.

Mixing up data sources

✗ AVOID

Trying to combine an unemployment rate (get_desemprego) calculation with currency quotes.

✓ INSTEAD

Keep the domains separate. If you need labor metrics, focus on get_desemprego; if you need exchange rates, use the PTAX tools.

The Right Fit

Use this MCP when your analysis requires deep historical context across multiple Brazilian economic variables. You need to see trends, not just snapshots. For instance, if you are comparing how debt levels changed *after* a major change in the Selic rate, you must use both get_divida_pib and get_selic_diaria. Don't use this if you only need a single piece of data, like today's USD quote; for that, a simple currency lookup works. But if your goal is to model complex relationships—like how commodity prices (get_balanca_comercial) affect reserves over time—this comprehensive access is non-negotiable.

BCB Full MCP: Analyzing Brazilian Inflation Indices and Rates

Manually gathering inflation data means logging into multiple sites, running queries for IPCA, INPC, IGP-M, and then cross-referencing market expectations from the Focus Survey. You spend hours just compiling a reliable time series comparison.

With this MCP, your agent pulls all these indices at once. You get a clean dataset showing how different inflation measures—like the consumer-focused IPCA versus the commercial IGP-M—have behaved against each other over decades.

BCB Full MCP: Tracking Brazilian Trade and Monetary Indicators

Tracking economic health used to mean running separate reports on trade balance, reserves, and GDP. This forced analysts into a disjointed workflow of checking multiple metrics with different data structures.

Now, you ask for the complete picture. You get simultaneous access to everything from foreign reserves (get_reservas) to PIX transaction volume (get_pix_estatisticas), allowing you to build reports that connect real-world activity to macro stability.

BCB Full: Accessing 22 Economic Indicators & Time Series Data

Use these tools to pull specific historical metrics like PTAX quotes, IPCA indices, Selic targets, GDP variations, and more from the Central Bank of Brazil.

#	TOOL	DESCRIPTION
01	`get_cotacao_dolar`	Gets the official PTAX quote for the US dollar, including both buy and sell values, for a single day.
02	`get_dolar_periodo`	Retrieves the historical series of the PTAX dollar rate over a specified date range, showing open, intermediate, and close values.
03	`get_cotacao_moeda`	Fetches the current buy and sell exchange rates for any foreign currency code, such as EUR or JPY.
04	`listar_moedas`	Lists every available exotic and major currency code supported by the Central Bank's PTAX system.
05	`get_dolar_sgs`	Gets a historical series for the commercial dollar rate (buy/sell) using the more flexible SGS standard, requiring DD/MM/YYYY format.
06	`get_pib`	Retrieves the monthly percentage change in Brazil's Economic Activity Index (IBC-Br), which serves as a proxy for GDP.
07	`get_divida_pib`	Calculates the public sector net debt as a ratio to the GDP using the SGS series.
08	`get_reservas`	Pulls the international reserves held by Brazil in USD, crucial for assessing external commitment capacity.
09	`get_balanca_comercial`	Retrieves the net balance of Brazil's trade account using the SGS series.
10	`get_desemprego`	Gathers the quarterly unemployment rate for Brazil according to the PNAD survey.
11	`get_pix_estatisticas`	Provides statistics on the volume and count of transactions processed through Brazil's instant PIX payment system.
12	`get_serie_bcb`	Consults over 200 general time series data points from the Central Bank using their specific SGS codes.
13	`get_ipca`	Obtains the Index of Broad Consumer Prices (IPCA), which is the main inflation target used by the BCB.

#	TOOL	DESCRIPTION
14	`get_ipca15`	Provides a forecast for the official inflation rate, known as IPCA-15.
15	`get_igpm`	Calculates the General Price Index - Market (IGP-M), often used to index rent agreements and contracts.
16	`get_inpc`	Retrieves the National Consumer Price Index (INPC), which measures inflation for lower-income households, often guiding minimum wage adjustments.
17	`get_expectativas_inflacao`	Gathers market consensus data on inflation forecasts across indicators like IPCA and IGP-DI from the Focus Survey report.
18	`get_selic_meta`	Provides the current target rate for Selic, the basic interest rate benchmark set by the COPOM committee.
19	`get_selic_diaria`	Pulls the effective daily Selic rate, reflecting the real-time execution of monetary policy.
20	`get_cdi`	Retrieves the CDI (Interbank Deposit Certificate) rate, a common benchmark for fixed income investments in Brazil.
21	`get_expectativas_selic`	Gathers market consensus data on Selic rate projections from the Focus Survey report.

See It in Action

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

U Give me a briefing on the last 10 years of Brazilian financial health: dollar, Selic, and IPCA.

BR Brazil Macro Snapshot (Last 10 Years)

- **USD/BRL PTAX:** Started at R$ 3.5x and averaged around R$ 4.5x.
- **Selic Rate:** Fluctuated wildly, peaking near 14% before dropping to recent levels.
- **IPCA (Annual Avg.):** Showed an average annual rate of approximately 5.2%, illustrating periods of high volatility and subsequent stabilization.

(Data sourced from multiple BCB series.)

U Compare the trend of GDP growth versus the public debt/PIB ratio since 2010.

Brazil Fiscal & Growth Outlook

YEAR	IBC-BR (PROXY GDP)	DEBT/PIB RATIO
2010	+5.2%	48%
2015	-3.3%	60%
2020	-3.9%	75%

Observation: The decline in GDP correlates strongly with an increase in the debt-to-PIB ratio.

U What are the key differences between PTAX and SGS for tracking dollar rates?

Dollar Rate Comparison

• **PTAX (Official):** Best for general, official reporting. It's the reference rate used by most financial news.
• **SGS (Commercial):** Better for long-term data analysis and modeling because it uses a more flexible structure for historical series tracking. This is what you want when running complex time-series queries.

Frequently Asked Questions

01 **How do I use the BCB Full MCP to compare inflation over multiple years?**

You can easily pull comparative data for major indices like IPCA, IGP-M, and INPC. You just tell your AI client which series you need and the date range, getting all three results in one clean comparison.

02 **Can BCB Full help me track currency exchange rates for non-USD currencies?**

Yes, this MCP supports over 150 currencies. You can use its tools to get the PTAX quote or historical data for almost any major foreign currency you need.

03 **What is the best way to check Brazil's economic growth history?**

Use the MCP to query the IBC-Br (Índice de Atividade Econômica) series. This provides a strong, reliable proxy for GDP variation over time, which is essential for macro analysis.

04 **Is BCB Full better than just using the government website?**

It's much faster and more flexible. Instead of manually downloading multiple CSV files from different pages, your AI client handles all the data retrieval, cleaning, and structuring in one go.

05 **Can I compare market expectations to actual rates using BCB Full?**

Absolutely. You can pull both the historical Selic rate (get_selic_diaria) and the latest market projections from the Focus Survey report (get_expectativas_selic) for a full picture.

06 **What kinds of debt metrics can I get using BCB Full?**

You can pull the public sector net debt as a percentage of GDP. This key indicator helps you assess Brazil's overall fiscal sustainability over time.

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 `"bcb-full-inteligencia-financeira-completa-do-brasil": { "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

BCB Full — Inteligência Financeira Completa do Brasil 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

INDEPENDENT PLATFORM DISCLAIMER

DOCUMENT INFORMATION

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MCP Server	BCB Full — Inteligência Financeira Completa do Brasil MCP
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Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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