

MCP SERVER

NO CODE

CLOUD HOSTED

Asian Development Bank MCP for AI Agents

Analyzing Macroeconomic Indicators for Asia-Pacific Economies

The Asian Development Bank MCP connects your AI agent directly to the official Key Indicators Database (KIDB). It lets you access comprehensive, historical macroeconomic indicators for 49 Asia-Pacific economies. You can pull data on GDP, inflation rates, trade volumes, and current account balances across major markets like China, Japan, India, and Southeast Asian nations.

A+ Quality Score 100/100

macroeconomics

gdp-data

economic-indicators

asia-pacific

financial-data

public-statistics



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.

Asian Development Bank MCP

3 tools available

Cloud-hosted on Vinkius

This MCP gives your AI agent a direct line to the Asian Development Bank's vast database of economic indicators. Instead of bouncing between multiple government websites or downloading disparate CSV files, you can ask for complex regional data in plain language. You'll get consistent metrics—everything from national GDP growth rates and CPI inflation trends to detailed trade balance figures across the ASEAN corridor. It handles the complexity of combining different indicator types (like comparing China's GDP with Thailand's trade volume) into one cohesive response. If your team relies on reliable, multi-country economic data for analysis or reporting, this MCP is essential. You'll use Vinkius to connect it to Claude, Cursor, or any compatible agent, making the entire process part of a single, natural workflow.

Core Capabilities

01 — Retrieve national GDP and growth rates

The MCP fetches economic output data for specific Asia-Pacific economies.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/asian-development-bank — connect your AI agent in three steps.

- 01 Tell your agent which economies you need data for (e.g., Japan, India, China) and what time period you're interested in.
- 02 Specify the exact indicator you want to compare—like GDP growth rates or CPI inflation—or ask the agent to pull a combination of indicators like trade volume and national income.
- 03 Your AI client processes the request against the ADB's structured data, returning clean, comparative results that are ready for immediate analysis.

The bottom line is: you get complex, multi-country economic reports delivered instantly without manual data compilation.

Built For

This MCP is for macro analysts and financial professionals who spend too much time manually compiling country-by-country economic spreadsheets. If your job involves cross-border comparisons of growth, trade, or inflation across Asia, this saves hours every single week.

Macroeconomic Analyst

Uses the MCP to compare GDP trajectories and identify regional divergences in growth rates among major Asian economies.

Fund Manager

Checks inflation trends and trade indicators across emerging markets to inform portfolio allocation strategies for high-risk/high-reward assets.

Trade Consultant

Analyzes balance of payments data, comparing import volumes against export growth in the ASEAN corridor to advise clients on market access risks.

What Changes When You Connect

-
- 01** Stop cross-referencing dozens of websites. The Asian Development Bank MCP gathers GDP, inflation, and trade data from one source.

 - 02** Run multi-indicator comparisons instantly. Using the dedicated `query_adb_indicators` tool, you can compare CPI rates alongside current account balances in a single prompt.

 - 03** Focus on trends, not data scraping. Get historical time series data for multiple countries (like China, Japan, and India) to spot long-term economic shifts quickly.

 - 04** Save time running focused queries. The specialized tools like `get_gdp_asia` let you pull core metrics with just an economy code and a start year.

 - 05** Maintain auditability. All data comes directly from the ADB's official Key Indicators Database, ensuring accuracy for high-stakes reports.
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Real-World Applications

Comparing post-pandemic recovery rates across Asia

A policy researcher needs to compare Japan's GDP growth trajectory against Vietnam's inflation rate since 2021. They ask their agent, which uses `get_gdp_asia` and `get_inflation_asia` to provide a clear, side-by-side comparison of both metrics.

Building a comparative economic report draft

A fund manager needs to compare three different economies (China, Korea, Indonesia) on multiple metrics—GDP, inflation, and overall national accounts. They ask the agent to run `query_adb_indicators` for all three in one go.

Assessing regional trade risk for consulting

A trade consultant needs to know if increasing import volumes in the Philippines are sustainable. They use `query_adb_indicators` to analyze the Balance of Payments data, checking current account balances against historical trade flows.

Quickly benchmarking core market health

A macro analyst needs a quick snapshot of the biggest economies. Using `get_gdp_asia` and `get_inflation_asia`, they pull current figures for China, Japan, and India to build an initial report slide deck.

Patterns to Avoid

Trying to use it for simple stock quotes

✗ AVOID

Asking the agent, 'What was Apple's closing price yesterday?' The MCP will fail because its data is restricted to national economic indicators (GDP, CPI, Trade), not equity market prices.

✓ INSTEAD

This tool only handles high-level macroeconomics. If you need stock prices or bond yields, you need a financial market data source instead.

Overloading the indicator query

✗ AVOID

Listing every single available ADB ID in one go without specifying the time frame or economies. This results in an unmanageable data dump that requires manual filtering.

✓ INSTEAD

Always narrow your focus. Start by querying a specific combination, like 'ADB,EO_NA (GDP) and PCPI_PCH (CPI)' for only two countries and then expand.

Mixing up indicator definitions

✗ AVOID

Confusing the Current Price Index (CPI) inflation rate with the Producer Price Index. The agent will pull the wrong data, leading to inaccurate policy recommendations.

✓ INSTEAD

Be explicit about the metric you need. Always request 'Consumer Price Inflation' when discussing household cost trends.

The Right Fit

Use this MCP if your core job is comparing verifiable historical macro statistics—GDP, CPI, or trade balances—across multiple Asian economies. You absolutely must have access to official development bank data. Don't use it if you only need simple market metrics like current stock prices; that requires a dedicated financial feed. Also, if you are looking for specific industry reports (like banking sector performance), this tool won't help. It's purely focused on the foundational national accounts and broad economic indicators.

Asian Development Bank MCP: Analyzing Macroeconomic Indicators in Finance

Today, compiling a regional report means logging into five different government sites. You download a CSV for China's GDP, another sheet for Japan's CPI, and then you spend hours trying to align the dates, formats, and economic definitions before you can even start writing.

With this MCP, your agent pulls all those indicators —GDP, inflation, trade—and compiles them into one coherent dataset. You get a structured comparison of multiple countries' financial health instantly.

Asian Development Bank MCP: Tracking Asia-Pacific Trade and Economic Flows

The manual process forces you to track trade flows by looking at separate import/export reports for every country. If you want to know the overall current account balance for a corridor, you're stuck doing dozens of calculations in Excel.

Now, simply asking for 'the total balance of payments across ASEAN countries' gives you a ready-made analysis of regional trade health. You get actionable insights on cross-border economic relationships.

Asian Development Bank: 3 Tools for Economic Data Retrieval

Use these three specific tools to fetch detailed metrics on GDP growth, consumer price inflation, or complex current account balances from the ADB database.

#	TOOL	DESCRIPTION
01	<code>get_gdp_asia</code>	Retrieves current and historical GDP figures for selected Asia-Pacific economies.
02	<code>get_inflation_asia</code>	Fetches Consumer Price Index (CPI) inflation rates for major Asian markets over time.
03	<code>query_adb_indicators</code>	Queries a complex mix of macroeconomic indicators, including trade and national accounts, using specific data codes.

See It in Action

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

U What were the GDP growth rates and inflation figures for China, Japan, and India starting in 2019?



Here is a comparison of key metrics:

COUNTRY	YEAR	GDP GROWTH RATE (%)	INFLATION (CPI)
China	2019	6.0%	5.0%
Japan	2019	0.3%	0.5%
India	2019	4.0%	4.8%

Source: ADB Key Indicators Database.

The data shows a clear divergence in growth, with China and India outpacing Japan during this period.

U Compare the trade balance of payments for Thailand versus Indonesia over the last three years.



Trade Balance Comparison (BOP)

- **Thailand:** The current account surplus remained stable, averaging around \$2.1 billion annually between 2021 and 2023.
- **Indonesia:** Showed higher volatility, with a notable deficit in 2022 before recovering to a near-zero balance last year.

This suggests Indonesia's trade structure is more sensitive to global commodity prices than Thailand's established exports.

U Show me the GDP data for all ASEAN countries from 2015 to 2020.



I compiled the requested GDP data (Current US Dollars) for the specified period:

- **Philippines:** Steady growth, averaging \$X billion in 2020.
- **Vietnam:** Showed accelerated expansion post-2018.
- **Thailand:** Maintained a consistent, moderate growth curve throughout the entire period.

The trend suggests Vietnam was the fastest expanding economy by volume during this window.

Frequently Asked Questions

01 Can I use the Asian Development Bank MCP to compare multiple countries on GDP and inflation?

Yes, you can. The MCP is designed for exactly that: pulling comparative data across several Asia-Pacific economies. You just tell your agent which country codes and what indicators you need.

02 Does the Asian Development Bank MCP include trade information?

Absolutely. It covers more than just GDP and CPI. You can analyze import/export volumes and current account balances, giving you a full picture of regional trade health.

03 Is this data real-time or historical for the Asian Development Bank MCP?

It pulls from the official Key Indicators Database (KIDB), providing accurate, verified historical time series data. It's ideal for long-term trend analysis and academic research.

04 What kind of economies does the Asian Development Bank MCP cover?

It covers a very broad range of ADB member economies across the Asia-Pacific region, from major markets like Japan and China to smaller island nations.

05 How do I get data for different types of indicators (like trade vs. population)?







You specify the exact indicator type you want—for instance, requesting 'Balance of Payments' versus 'GDP'. The MCP handles the complexity of pulling those disparate metrics together.

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>"asian-development-bank": { "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

Asian Development Bank 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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