

MCP SERVER

NO CODE

CLOUD HOSTED

AbstractAPI MCP for AI Agents

Validate Contact Information and Enrich Company Data from Domains

AbstractAPI equips your AI agent with critical data validation and enrichment tools, moving beyond simple text generation. You can instantly validate emails against MX records, perform real-time IP geolocation for full geographic context, and pull corporate details like employee count or industry from a domain name. It's designed to solve the messy problem of dirty, incomplete business data directly within your AI conversation.

F Quality Score 48.02/100

data-enrichment

email-validation

geolocation

phone-validation

data-hygiene

rest-api



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.

AbstractAPI MCP

10 tools available

Cloud-hosted on Vinkius

Building clean datasets used to involve multiple tools: one service for email checking, another for IP lookups, and yet another for company records. AbstractAPI changes that process entirely. Now you can connect this MCP through Vinkius and let your agent handle all the data hygiene automatically. Instead of running disjointed scripts or manually pasting addresses into different web forms, you simply ask your AI client to enrich a list. Your agent will check email deliverability, validate if an international phone number is active, and even find out what country a specific IP address belongs to—all in one go. It's built for operational teams who need accurate records immediately, whether they are trying to build clean marketing lists or debugging geographic routing errors. It lets you stop worrying about data quality and start focusing on the insights.

Core Capabilities

01 — Validate Contact Information

Checks if an email is deliverable by examining MX records and verifying the domain's structure, or validates a phone number to confirm its carrier and line type.

03 — Enrich Company Profile Data

Uses a domain name to pull structured corporate information such as the company's official industry, estimated employee count, and main LinkedIn page link.

05 — Generate Media Assets

Creates placeholder avatar images from a name's initials, or renders full web page screenshots based on a target URL.

02 — Determine Location from IP Address

Takes any IPv4 or IPv6 address and returns precise details, including country, city, ISP, timezone, and local currency data.

04 — Handle Global Business Operations

Performs specialized checks like validating EU VAT numbers for billing or fetching real-time currency exchange rates between two currencies.

One Click on Vinkius — From Prompt to Execution

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

- 01** Connect your AbstractAPI account to Vinkius and link the MCP credentials using your specific API key.
- 02** Your AI client sends a natural language prompt requesting data actions, for instance, 'What country is 8.8.8.8 in?'
- 03** The agent uses the appropriate tool within the MCP (like `geolocate_ip`) to fetch structured results and presents them back to you as plain text.

The bottom line is that your AI client treats this data enrichment process like a built-in function, allowing complex validation tasks through simple conversation.

Built For

Growth and Sales teams who spend too much time manually cleaning scraped lists.
Financial operators who need to verify cross-border billing details. Developers debugging location or network issues using raw IP data.

Sales Development Representative (SDR)

Uses the MCP to validate large batches of emails and phone numbers scraped from LinkedIn before initiating cold outreach campaigns.

Financial Analyst

Verifies B2B EU VAT numbers or checks current currency exchange rates when building international financial models.

DevOps Engineer

Uses the MCP to instantly geolocate IPs found in error logs, identifying the source region and associated timezone for debugging routing issues.

What Changes When You Connect

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- 01 Stop sending emails to dead accounts. The `validate_email` tool checks deliverability using MX records, saving your sender reputation.

 - 02 Build cleaner lead lists instantly. Use `enrich_company` to pull industry, headcount, and LinkedIn links directly from a domain name you scraped.

 - 03 Eliminate geographical guesswork. Pass an IP address through the `geolocate_ip` tool to confirm the country, timezone, and local currency for billing accuracy.

 - 04 Manage international payments better. The `exchange_rate` tool provides real-time or historical rates so your agent can calculate costs accurately in any foreign currency.

 - 05 Simplify complex data capture. You don't need separate tools; one prompt lets you check both a phone number (`validate_phone`) and the company behind it (`enrich_company`).

 - 06 Improve documentation. Use `website_screenshot` to generate visual proof of web pages without needing browser automation scripts.
-

Real-World Applications

Cleaning up scraped sales lists.

A sales team needs to clean 5,000 contacts found online. They ask their agent to validate all emails using `validate_email` and then use `enrich_company` on the associated domains to ensure they're targeting viable businesses.

Debugging regional routing errors.

A developer finds an error log pointing to a specific IP address. They ask their agent to `geolocate_ip`, immediately confirming it belongs to a certain region and providing the correct local currency for debugging parameters.

Setting up international billing.

A finance operator needs to process an invoice from Germany. They use `validate_vat` on the VAT number and then check the `exchange_rate` tool to ensure the final payment amount is calculated correctly in USD.

Researching a new competitor's footprint.

A market researcher finds a competitor's website. They ask their agent to `enrich_company` on the domain, getting the industry and employee count, then use `website_screenshot` to capture visual proof of key pages.

Patterns to Avoid

Treating data validation as a manual step**X AVOID**

The user copies 100 emails into a spreadsheet and manually runs them through different online checkers, which takes hours of repetitive clicking.

✓ INSTEAD

Instead, prompt your agent to use `validate_email` on the entire list. The MCP handles the bulk check automatically, providing instant results for every entry.

Assuming IP data is always local**X AVOID**

A developer sees an IP address from a foreign region and assumes it must be related to that country's currency or timezone without verification.

✓ INSTEAD

Always run the `geolocate_ip` tool first. It provides guaranteed structured data, including the exact associated currency and reliable timezone name.

Mixing up company and domain details**X AVOID**

The user knows a company's name but tries to find its size or industry by searching general web pages.

✓ INSTEAD

Use `enrich_company` with the official website domain. This tool pulls verified data points like employee count and primary industry directly from the source.

The Right Fit

Use this MCP if your core workflow depends on verifiable, structured external data—things like confirmed email deliverability, precise geographic coordinates, or legal business identifiers. If you're building a pipeline that touches contact information, financial records, or web assets, this is essential. Don't use it just because you want to know the time zone; if all you need is the current local time for a single city, simple search queries might suffice. However, if you need the specific timezone name (like 'America/New_York')

and UTC offset for code or database storage, then `geolocate_ip` gives you that definitive data point.

AbstractAPI MCP: Solving Contact Data Hygiene Issues with AI Agents

Losing time confirming if an email address is real is standard practice for any sales team. You spend minutes validating every single lead—checking MX records to see if the domain even accepts mail, or running basic checks just to avoid sending a bounce-back.

With this MCP connected, you simply ask your agent to validate contacts. It handles the complex technical steps of checking deliverability and confirming SMTP handshakes, giving you clean lists without lifting a finger.

AbstractAPI MCP: Using Company Data for Global Business Intelligence

Before this tool, figuring out if a domain was associated with a major corporation required navigating multiple industry databases, guessing the company's size, or finding their primary sector through messy web searches.

Now you can ask your agent to enrich domains. It pulls verified data on industry and headcount instantly, giving you professional-grade business intelligence right inside your workflow.

AbstractAPI: 10 Tools for Data Hygiene and Business Intelligence

Use these tools to perform complex data tasks like IP geolocation, email validation, and corporate enrichment directly through conversation.

| # | TOOL | DESCRIPTION |
|----|---------------------------------|---|
| 01 | <code>geolocate_ip</code> | Pass an IPv4 or IPv6 address to retrieve the country, city, ISP, timezone, and currency data associated with that IP. |
| 02 | <code>validate_email</code> | Checks an email address for deliverability by analyzing MX records and performing SMTP verification to confirm if the inbox exists. |
| 03 | <code>validate_phone</code> | Takes a full phone number with its country code and returns details on the carrier, line type (mobile or landline), and general validity status. |
| 04 | <code>enrich_company</code> | Inputs a domain name to pull core company data, including the official industry, estimated employee count, and primary LinkedIn profile link. |
| 05 | <code>exchange_rate</code> | Retrieves either real-time or historical currency exchange rates between two specified base and target currencies. |
| 06 | <code>validate_vat</code> | Checks an EU VAT number, requiring the country prefix, to confirm its validity, associated company name, and registered legal address for billing purposes. |
| 07 | <code>list_holidays</code> | Retrieves a list of official local and national public holidays for any given ISO country code and year. |
| 08 | <code>get_timezone</code> | Provides the timezone name, UTC offset, and current local time when supplied with a city name or coordinates. |
| 09 | <code>generate_avatar</code> | Creates a URL for an initials-based avatar image placeholder using only a person's full name. |
| 10 | <code>website_screenshot</code> | Generates and returns a permanent, shareable URL that renders a full-page screenshot of the specified target website. |

See It in Action

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

U Check this email: sales@exampleco.com. Is it safe to send an account update to them?



Email Analysis Report:

- **Status:** Deliverable
- **MX Records Check:** Passed (Confirmed valid servers)
- **SMTP Verification:** Successful handshaking.

The email address is confirmed as active and ready for sending. You should have a high deliverability score, minimizing bounce risk.

U What's the company behind techsolutionsinc.net? I need their industry and employee count.



Company Profile: TechSolutionsInc

- **Industry:** Software & SaaS
- **Headcount Estimate:** 800 - 1,500 employees globally.
- **LinkedIn Link:** [link provided]

This confirms they are a sizable player in the software sector. You can use this data to tailor your pitch accordingly.

U Find out details about the IP address 203.178.4.15.



IP Geolocation Data:

- **Country:** United States
- **City:** Seattle
- **Timezone:** America/Los_Angeles
- **ISP:** Comcast Cable Communications, LLC
- **Currency:** USD

This node is located in the Pacific Northwest and operates on local US time.

Frequently Asked Questions

01 How can AbstractAPI help me clean up my list of scraped emails?

AbstractAPI validates your emails instantly, confirming deliverability using MX records and SMTP checks. You get a clear report showing which addresses are safe to send to, saving you time and protecting your sender reputation.

02 What kind of data can I get about a company just from its website domain?

You can use AbstractAPI's enrichment tools on the domain. It returns key business metrics like the industry sector, estimated employee count, and official LinkedIn profile link.

03 Is `geolocate_ip` reliable for knowing where a user actually is?

The MCP provides geolocation data based on the IP address range. It gives you the best available information—like country, city, ISP, and timezone—which is extremely useful for setting up region-specific marketing campaigns.

04 Does AbstractAPI help me with international billing or VAT numbers?

Yes, it validates EU VAT numbers. You simply provide the number and country prefix, and the MCP confirms if it's valid and provides the registered legal address for accurate B2B invoicing.

05 Can I use AbstractAPI to generate images or capture web pages?

Absolutely. It includes tools that can create placeholder avatars from a name, or render full-page website screenshots into permanent URLs, which is great for documentation and proofing.

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 `"abstractapi": { "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

AbstractAPI 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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