MCP SERVER | NO CODE | CLOUD HOSTED

Bright Data MCP for AI Agents

Bypass anti-bot restrictions and extract structured search engine results.

Bright Data connects your AI agent to a massive web data platform, letting you bypass anti-bot protections and extract structured search engine results. You can manage proxy networks, monitor dataset collection jobs, and automate complex data scraping right from your chat interface.

A+ Quality Score 100/100

proxy-management | serp-api | web-unlocker | data-extraction | browser-automation

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vinkius.com/mcp/bright-data

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.

Bright Data MCP

10 tools available
Cloud-hosted on Vinkius

This MCP lets your AI client become a sophisticated data engineer. Instead of running scripts manually or fighting CAPTCHAs, you tell your agent what data you need—whether it's structured search engine results (SERP) or large-scale web scrapes—and it handles the connection to the world's leading proxy infrastructure. Your agent can use tools like `send_request` to pull specific data from protected sites and manage entire datasets, triggering collections with `trigger_dataset`. If you're working with complex scraping, your AI client also tracks browser sessions using `list_browser_sessions`, giving you full visibility over the process. Since Vinkius hosts this MCP, your agent can access all these powerful tools without needing specialized coding knowledge. You just talk to it.

Core Capabilities

01 — Extracting Structured Search Data

Send a request to pull structured data from search engines or bypass anti-bot protections using the SERP API and Web Unlocker.

02 — Monitoring Large Dataset Jobs

Track the progress of large-scale data collections, checking current status with `get_dataset_progress` and downloading finished snapshots via `get_dataset_snapshot`.

03 — Managing Proxy Infrastructure

View all configured proxy zones using `get_all_zones`, check zone details with `get_zone_info`, or retrieve necessary passwords for specific zones using `get_zone_passwords`.

04 — Listing and Debugging Browser Sessions

List all active Scraping Browser sessions to debug, monitor, or track automated browser workflows directly.

05 — Discovering Pre-collected Data

Browse available datasets in the Bright Data marketplace using `list_datasets` to find ready-to-use market intelligence.

One Click on Vinkius — From Prompt to Execution

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

01 First, connect your AI client and input your Bright Data API Key into Vinkius.

02 Second, tell the agent exactly what you need—for example, 'scrape X data' or 'check my zone status'.

03 Third, the MCP executes the necessary tool calls in the background, returning structured results (like JSON) directly to your chat window.

The bottom line is that your AI client uses this MCP as a command center for complex web data tasks, requiring no manual setup or script execution on your part.

Built For

This MCP is essential for market researchers and data scientists who spend too much time wrestling with anti-bot walls. If you're a developer who needs to debug scraping logic or an analyst tracking competitor SERP movements, this connector saves hours of manual work.

Market Researcher

You use the MCP to pull structured search results for keyword ranking analysis and track how competitors move in real-time.

Data Scientist

You trigger large dataset collections, monitoring progress through `get_dataset_progress` so your training data is always fresh and comprehensive.

DevOps Engineer

You debug automated browser workflows by listing sessions with `list_browser_sessions` or checking proxy credentials using `get_zone_passwords` directly from the chat interface.

What Changes When You Connect

01 Analyze specific proxy zones: Quickly check account status or retrieve zone passwords using `get_zone_passwords` so you don't waste time on dead endpoints.

02 Automate large data pulls: Initiate complex scraping jobs with `trigger_dataset`, letting your agent handle the heavy lifting of crawling thousands of pages.

03 Debug workflows easily: Use `list_browser_sessions` to see exactly what your automated browser is doing, making debugging simple and fast for developers.

04 Get structured search results: The `send_request` tool lets you pull clean, usable JSON data from protected sites without building complex scraping logic.

05 Scale research instantly: Browse the marketplace via `list_datasets` to find pre-cleaned datasets instead of starting every project from scratch.

Real-World Applications

Tracking Competitor SERP Changes

A market researcher needs to monitor how a competitor's ranking for 'best laptops 2024' changes weekly. They ask their agent to use `send_request` with the SERP API zone, getting immediate structured JSON data on top-ranking sites.

Building Training Data Sets

A data scientist needs 10,000 articles about sustainable energy. They instruct their agent to use `trigger_dataset`, monitor progress with `get_dataset_progress`, and then download the final snapshot using `get_dataset_snapshot`.

Debugging a Scraping Failure

A developer's automated browser stops working. They ask their agent to run `list_browser_sessions` to check for errors and then use `get_zone_info` to verify the proxy zone setup.

Initial Infrastructure Check

A new user needs to know what proxies are available. They ask their agent to run `get_all_zones`, immediately getting a list of all accessible zones and their status.

Patterns to Avoid

Trying to scrape data manually

✗ AVOID

Copying search results from Google into Excel. This is slow, requires manual cleanup, and often fails due to CAPTCHA walls.

✓ INSTEAD

Use the agent's `send_request` tool with the SERP API zone. Your AI client handles the anti-bot bypass and delivers clean JSON data directly.

Forgetting proxy credentials

✗ AVOID

Running a script that fails because the proxy password has expired or changed.

✓ INSTEAD

Ask your agent to use `get_zone_passwords`. It retrieves the current, valid passwords for specific zones so you can keep your automated workflows running.

Assuming data collection is complete

✗ AVOID

Starting a multi-day crawl and forgetting if it finished or failed halfway through.

✓ INSTEAD

Use `get_dataset_progress` to check the real-time status of your dataset job. Once it hits 100%, use `get_dataset_snapshot` to download the results.

The Right Fit

Use this MCP if you need reliable, high-volume web data extraction and proxy management; specifically, when anti-bot walls are a constant problem. If your goal is simple API calls (e.g., fetching public weather data), stick to a basic REST connector. However, if you need structured search results or massive dataset scraping, this MCP provides the necessary depth. Don't use it just because you want access to proxies; ensure you know whether you need to monitor sessions (`list_browser_sessions`) versus simply getting credentials (`get_zone_passwords`).

Bright Data MCP for AI Agents: Mastering Web Scraping and SERP Extraction

Today, gathering competitive intelligence means tedious manual work. You open Google, run a search, copy the title/snippet; you switch to LinkedIn, find a contact, and then manually input that data into a spreadsheet. This process is slow, prone to human error, and fails every time a website adds a CAPTCHA layer.

With this MCP, your agent handles all of it. You simply ask for structured search results or dataset snapshots using `send_request` or `trigger_dataset`. Your AI client delivers clean, usable data—the raw output you actually need—without the manual copy-pasting.

Bright Data MCP for AI Agents: Controlling Proxy Infrastructure and Zone Management

Managing web scraping infrastructure used to mean logging into a dashboard, checking zone status, and hoping the credentials hadn't expired. If your process fails because of an outdated proxy password or an unknown zone limit, you lose hours.

Now, your agent checks everything for you. Need to know what proxies are available? Use `get_all_zones`. Need a fresh credential set? Run `get_zone_passwords`. It puts full infrastructure control right into the conversation.

Bright Data: 10 Tools for Structured Web Data Extraction

These tools allow you to manage proxy infrastructure, trigger massive dataset crawls, send specific API requests, and monitor all web scraping activities directly from your AI client.

#	TOOL	DESCRIPTION
01	`get_all_zones`	Retrieves a list of every configured proxy zone available in your Bright Data account.
02	`get_dataset_progress`	Checks the current status and percentage completion for any running dataset snapshot job.
03	`get_dataset_snapshot`	Downloads a completed dataset snapshot, allowing you to save the collected data locally.
04	`get_zone_info`	Fetches detailed information about a specific proxy zone, including its type and limitations.
05	`list_datasets`	Displays a catalog of pre-collected datasets available in the Bright Data marketplace for immediate use.
06	`trigger_dataset`	Initiates a large-scale dataset collection job (Crawl API) based on your defined parameters.
07	`get_account_status`	Retrieves the current operational status and health check for your overall Bright Data account.
08	`get_zone_passwords`	Securely retrieves the active passwords required to use a specified proxy zone.
09	`list_browser_sessions`	Lists all currently running Scraping Browser sessions, helping you track automated browser activity.
10	`send_request`	Sends specific requests to either the Web Unlocker or SERP API zones for targeted data extraction.

See It in Action

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

U List all my active proxy zones in Bright Data.

I've retrieved your zones. You have 3 active zones: 'web_unlocker1' (Web Unlocker), 'serp_api_main' (SERP API), and 'residential_zone' (Residential Proxies).

U Scrape the search results for 'best laptops 2024' using the SERP API zone.

Sending request to SERP API... I've extracted the structured data. The top results include reviews from TechRadar, CNET, and RTINGS. Would you like the full JSON output?

U Check the progress of dataset snapshot 's_l1m2n3b4'.

The snapshot 's_l1m2n3b4' is currently at 75% completion. It has processed 15,000 records so far with 0 errors.

Frequently Asked Questions

01 **How does the Bright Data MCP help with anti-bot restrictions?**

It lets your AI client bypass common bot protections by connecting to specialized zones like Web Unlocker and SERP API. This means you get clean data from protected sites without needing complex, error-prone coding.

02 **Do I need to write code to scrape search results?**

No. You just ask your agent for the structured data you want using `send_request`. The MCP handles all the connection details and anti-bot logic so it's simple conversation, not coding.

03 **What if my dataset collection fails or gets stuck?**

You can monitor progress in real time. Your agent uses `get_dataset_progress` to show you exactly how many records are done and if there are any errors, letting you debug without guesswork.

04 **Can I manage my proxy zones directly through the MCP?**

Yes. You can get a full list of all available zones using `get_all_zones` and even retrieve the current passwords needed to use them via `get_zone_passwords`.

05 **Is this tool only for data science projects?**

Not at all. Market researchers can track competitor movements, while developers can debug their scraping code using session listings and zone info—it supports various high-level web intelligence tasks.

06 **How do I bypass anti-bot systems on a specific website?**

Use the `send_request` tool and specify a zone configured with Web Unlocker. Provide the target URL, and Bright Data will handle the rotation and headers to return the content.

07 **Can I check if my data collection is finished?**

Yes. Use the `get_dataset_progress` tool with your Snapshot ID. It will return the current percentage and status of the extraction process.

08 **How do I get the proxy credentials for my scraper?**

You can use the `get_zone_passwords` tool by providing the zone name. This will retrieve the necessary passwords for proxy authentication.

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 `"bright-data": { "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

Bright Data 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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