

MCP SERVER

NO CODE

CLOUD HOSTED

Doofinder MCP for AI Agents

Search, Filter, and Analyze E-commerce Product Catalog Data

Doofinder MCP gives your AI agents complete control over e-commerce search and catalog discovery. Use natural conversation to run complex keyword searches, apply deep filtering by properties like brand or color, predict product suggestions for partial queries, and audit performance analytics directly from the platform.

A+ Quality Score 100/100

site-search

search-analytics

predictive-search

conversion-optimization

e-commerce-tools



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.

Doofinder MCP

10 tools available

Cloud-hosted on Vinkius

You don't have to jump between developer dashboards and spreadsheets just to test a new marketing campaign idea. This MCP connects your AI agent straight into the core of Doofinder's e-commerce search engine. Instead of writing complex API calls for every scenario, you talk through it with natural language.

Your agent can perform deep keyword searches and then narrow those results down using structural filters—you tell it to show only 'red' items under \$50 from a specific brand. Need to know if a certain product category is performing well? You can run automated checks on the search engine's history or inspect raw catalog data, verifying exactly what your products are visible as. When you connect this MCP via Vinkius, your agent gains access to sophisticated tools that let you track click-through rates and test custom sort orders instantly. It's like having a dedicated e-commerce analyst sitting right next to your AI client.

Core Capabilities

01 — Run advanced filtered product searches

Apply structural filters, specifying properties like color, brand, or price range to narrow down broad search results.

03 — Audit product catalog indexes

Inspect deep internal arrays to sync un-cached raw catalog limits or check the structure of your entire product graph.

05 — Sort results by custom parameters

Generate JSON payloads that sort product lists according to hard customer bindings, like 'price:asc' or 'relevance:desc'.

02 — Predict suggested keywords and items

Get fast predictive suggestions for partial queries, helping you quickly identify what customers might be looking for next.

04 — Extract key performance metrics

Identify specific active data arrays spanning native hold parsing to capture exact click-through rates (CTR) and query velocity.

One Click on Vinkius — From Prompt to Execution

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

- 01** Subscribe to this MCP and provide your Doofinder Search Zone, HashID, and Management Token (API Key).
- 02** Your AI client authorizes the connection, giving your agent access to perform deep search queries and analytics checks.
- 03** Use natural conversation with your agent. Tell it what you need—'Show me all high-performing red items under \$10.' Your agent executes the complex logic using specialized tools.

The bottom line is, you stop translating business questions into technical API calls and start asking them directly to your AI client.

Built For

This MCP is for e-commerce professionals who need visibility into product catalog performance. If you're tired of manually running dozens of test searches or waiting on a developer to pull raw analytics, this tool gives you immediate control.

Digital Marketer

Checks search metrics and CTR data for specific campaigns to prove which product categories convert best.

E-commerce Manager

Monitors overall search performance, audits product rankings across different index types, and validates merchandising rules without manual testing.

Product Owner

Tests category mappings and debugs search API parameters by talking to the system. They can verify data structure integrity in real-time.

What Changes When You Connect

- 01 Test complex search scenarios instantly. Instead of manual testing, you can use the `search_filtered` tool to test how results change when applying filters like brand or price range.
- 02 Track performance metrics without leaving your chat window. Use `get_stats` to pull exact CTR and click-through data immediately for campaign validation.
- 03 Deeply audit product visibility. By running `get_indices` and inspecting the catalog graph via `get_items`, you can verify if products are indexed correctly across all channels.
- 04 Optimize user experience with predictive insights. The agent uses `suggest` to give you immediate ideas on popular partial queries, boosting site navigation.
- 05 Control result presentation perfectly. Use `search_sorted` when you need results to always appear in a specific order, like price ascending or relevance descending.

Real-World Applications

A campaign needs testing across multiple categories

The marketer asks the agent: 'Run a search for 'summer footwear' and then narrow it down to only brands X and Y.' The agent uses `search_filtered` to deliver the precise, targeted result set instantly.

Determining the best way to sort product pages

The team wants to compare default sorting vs. price-based sorting. The agent uses `search_sorted` with different parameters, providing a JSON payload for comparison in minutes.

Checking if an old product is still visible

The owner asks: 'Can you inspect the raw data for SKU 12345?' The agent uses `get_items` to pull deep internal arrays, confirming if the item exists and what its exact specifications are.

Diagnosing slow search performance spikes

A developer asks: 'Show me the query history and associated metrics for the last week.' The agent coordinates multiple tools, pulling data from `get_stats` and running a check using `get_search_engines`.

Patterns to Avoid

Assuming simple keyword search works

✗ AVOID

The user only asks for 'running shoes' without specifying filters, getting an overwhelming list of irrelevant products.

✓ INSTEAD

Don't stop at basic searches. Always follow up by using ``search_filtered`` to narrow results by color or brand, making the data actionable.

Over-relying on manual dashboard reporting

✗ AVOID

The marketer spends two hours clicking through multiple tabs in an analytics tool just to find the average CTR.

✓ INSTEAD

Use ``get_stats`` to pull the exact, consolidated performance data and query velocity directly into your chat session.

Not verifying product index health

✗ AVOID

A Product Owner assumes a new category is live but can't verify if it's indexed correctly on all search engines.

✓ INSTEAD

Run ``get_search_engines`` first. It validates the entire gateway history, confirming that your catalog data is accessible to the agent.

The Right Fit

Use this MCP if you need deep, programmatic access to e-commerce search and product catalog data within a conversational workflow. You should use it when your job requires testing complex filtering combinations (like brand AND color) or extracting granular performance metrics that are buried in separate dashboards. Don't use it if your goal is simply content generation, like writing descriptions; for that, you need a general-purpose text model. If you just need basic keyword searches and don't care about filters, other generic search tools might suffice. But when validation depth matters—when checking index health or comparing sort logic using `search_sorted`—this MCP is essential.

Doofinder MCP for AI Agents: Streamlining E-commerce Search Query Testing

Today, testing a search query often means opening the platform's dedicated developer console. You manually input parameters, check if the result set is paginated correctly, and then run another test to see how it behaves when you filter by brand or price range. It's tedious copy-pasting across multiple tabs just to validate basic merchandising logic.

With this MCP, you simply ask your agent: 'Show me all red sneakers priced under \$50.' The agent instantly executes the necessary checks using `search_filtered` and provides a clean, structured result without ever opening a developer console. You get immediate data certainty.

Doofinder MCP for AI Agents: Auditing Product Catalog Data Integrity

Product owners often spend time trying to confirm if a newly added product is actually visible in the search index, or if an old SKU still exists. This requires running multiple checks—one for general visibility, and another one deep into the catalog structure.

Now, you can ask your agent to run `get_indices` and then follow up by using `get_items`. The combination of these two tools lets you prove product existence and validate its precise data fields in a single conversation. It eliminates guesswork.

Doofinder MCP: 10 Tools for E-commerce Search Analytics

Use these specialized functions to perform everything from basic keyword lookups to deep audit checks on your product catalog structure.

#	TOOL	DESCRIPTION
01	<code>search_custom</code>	Runs specialized validation searches, helping you extract rich flags for specific business logic testing.
02	<code>search_filtered</code>	Narrows down results by applying filters to properties like brand, color, or price range.
03	<code>get_search_engines</code>	Sends an automated check of the gateway history to verify search engine status and connectivity.
04	<code>get_indices</code>	Retrieves precise active arrays, giving you visibility into the system's overall index setup.
05	<code>get_items</code>	Inspects deep internal data arrays to view specific product details and raw catalog information.
06	<code>get_stats</code>	Captures key performance metrics, including click-through rates (CTR) and overall query volume history.
07	<code>search_keyword</code>	Performs fundamental keyword searches across the entire headless platform.
08	<code>search_pagination</code>	Retrieves detailed logging information, useful for tracing large volumes of search results and data limits.
09	<code>search_sorted</code>	Generates structured product listings that sort by custom criteria like price or relevance.
10	<code>suggest</code>	Provides predictive nodes to guide users with fast suggestions based on partial queries they type in.

See It in Action

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

U I need to find all available running shoes, but only those that are blue and cost less than \$100.



Search Results for Blue Running Shoes (<math>\\$ < 100</math>)

- **Brand:** SwiftStep
 - * Model: Nimbus Runner (Blue)
 - * Price: \$89.99
- **Brand:** Trailblazer
 - * Model: Alpine Sprint (Royal Blue)
 - * Price: \$105.00 (Exceeded budget, excluded)

We found 4 matching items total. Would you like me to sort these by lowest price or best relevance?

U What are some popular search terms people are typing right now? Give me five suggestions.



Predictive Suggestions for Partial Query 'sun'

Based on current trends, here are the top 5 suggested queries:

1. sunglasses : (High volume)
2. sunscreen kit : (Growing interest)
3. sunny day outfits : (Seasonal)
4. sunrise yoga gear : (Niche market)
5. sun-blocking curtains : (Home goods)

Use these keywords to optimize your content strategy.

- U** Can you give me the search analytics for last week? I want to see total clicks and what my average CTR was.



Search Performance Report: Last 7 Days

METRIC	VALUE
Total Queries Processed	14,500
Total Clicks Recorded	1,250
Average CTR	8.6%
Query Velocity Trend	Up 7% from previous week

The data shows a slight dip in weekend performance; focus marketing efforts on Tuesday mornings for better results.

Frequently Asked Questions

01 How do I use Doofinder MCP to test if my product filters work correctly?

You simply ask your agent to perform a filtered search. For example, 'Show me all green items under \$50.' The tool handles the complex logic of combining multiple properties (color, price) into one clean result set, letting you prove your merchandising rules instantly.

02 Can Doofinder MCP help me figure out what keywords customers are searching for?

Yes. You can ask the agent to use predictive suggestion tools on partial queries like 'bath!'. It returns a list of common, high-volume completions (e.g., 'bathroom rug,' 'bath towels'), giving you instant keyword ideas.

03 What if I need to sort my search results by something other than relevance?

You can use the dedicated sorting tool. Just tell your agent, 'Show me all hiking boots sorted by price, lowest first.' It provides a structured JSON payload that respects your custom ordering rules.

04 Is Doofinder MCP better than just looking at my analytics dashboard?

It's more dynamic. While dashboards show historical data, this MCP allows you to run live, targeted tests and get instant reports on things like current CTR or query velocity without logging into any external system.

05 Do I need a developer to use Doofinder MCP for AI Agents?







No. The whole point is that you don't. You talk to your agent using plain English, and the MCP translates those high-level questions into the specific API calls needed to get the data.

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>"doofinder": { "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

Doofinder 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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