

MCP SERVER

NO CODE

CLOUD HOSTED

Bing Search MCP for AI Agents

Accessing real-time global web data and local business listings

Bing Search MCP connects your AI agent to global, real-time web data. This allows your agent to query everything from live local business listings and trending news articles to deep knowledge graph entities and specific image/video metadata. It gives your agent the immediate access it needs to move past outdated training data.

A+ Quality Score 100/100

web-search

image-search

news-monitoring

entity-data

search-api

data-extraction



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.

Bing Search MCP

10 tools available

Cloud-hosted on Vinkius

Your AI client no longer relies on static, historical information when performing complex tasks. With this MCP, you connect your preferred local Bing Search API key to give your agent real-time web intelligence and graph data. Instead of just guessing or hallucinating facts, your agent can actually query the current state of the world—whether that's finding a new trending topic globally, locating a specific business address nearby, or pulling up images with native pixel metadata. You use this MCP via the Vinkius Marketplace to get immediate access to Bing Search's full catalog of tools, making it simple for any compatible agent to utilize real-time web context in its workflow.

Core Capabilities

01 — Search the general web

Perform broad searches across the entire internet using the Microsoft Graph for up to 50 organic results.

03 — Monitor global news topics

Retrieve syndicated news articles from various global sources and identify macro-trending viral topics regardless of keywords.

05 — Search for media assets

Find specific image results and video stream links while capturing native metadata like pixel dimensions and motion arrays.

02 — Find local business information

Force extraction of explicit local business listings, prioritizing geographical data over standard web content.

04 — Analyze structured entities

Resolve and map deeply structured data, such as famous people, places, or objects using the Knowledge Graph.

06 — Restrict searches to domains

Limit search queries strictly within a predefined set of whitelisted company or organizational websites.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/bing-search-1 — connect your AI agent in three steps.

- 01 Subscribe to this MCP on Vinkius and input your specific Bing Search API Key obtained from Azure.
- 02 Connect that key to your preferred AI client (like Cursor or Claude) through the Vinkius ecosystem.
- 03 Instruct your agent to use its web search tool. The MCP executes the query, fetches real-time data, and passes only the relevant results back to your agent.

The bottom line is that you get a reliable, live connection to global web intelligence without having to manage API keys or complex backend integrations yourself.

Built For

Anyone whose job requires staying current on rapidly changing external data—from journalists covering breaking news to marketers tracking viral trends. If your work depends on knowing what happened five minutes ago, not last week, this MCP is for you.

Market Researcher

Uses the `search_entities` tool and `search_web` to build comprehensive profiles on competing companies by pulling real-time data points and structured knowledge graph facts.

Digital Marketing Manager

Monitors `trending_news` for viral topics, uses `search_local` to find optimal physical store locations for promotions, and runs `custom_search` on specific PR domains.

Content Strategist

Uses `search_images` and `search_videos` to source high-quality media assets with verifiable metadata without leaving the AI environment. They also use spellcheck for quality control.

What Changes When You Connect

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- 01 Stop relying on outdated knowledge. Use `search_web` to pull up the top 50 organic results from the Microsoft Graph, ensuring your agent's facts are current.

 - 02 Go beyond basic searches by running `search_entities`. This tool resolves famous people, places, and objects into structured data you can use for complex analysis.

 - 03 When tracking market interest, run `trending_news` to identify macro-viral topics without needing to know the keywords beforehand.

 - 04 Need hyper-local context? The `search_local` tool forces extraction of detailed local business listings, which is essential for field operations planning.

 - 05 Improve content accuracy instantly. Use `spellcheck` on your agent's output to perform semantic NLP checking on short strings before publishing.

 - 06 Save time by using `autosuggest`. Your agent can receive automated query completion suggestions in real-time while formulating a search.
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Real-World Applications

Researching global product trends

A research team needs to understand the latest breakthroughs in solid-state batteries. They ask their agent, and it uses `search_web` to pull top organic results from the Microsoft Graph, providing immediate links to recent scientific advancements.

Planning a marketing tour

A manager needs to find catering options in a new city next month. They instruct their agent to use `search_local`, which bypasses generic web pages and returns specific, verifiable local business details.

Tracking breaking political stories

A journalist wants to know what's hot right now. The agent runs `trending_news`, discovering the major viral topics—like an international event or market index change—without needing a specific keyword.

Validating claims against corporate sites

A compliance officer must verify information only found on three specific partner websites. They use `custom_search`, which locks the query strictly to those pre-built whitelisted domains, preventing scope creep.

Patterns to Avoid

Searching vaguely for a topic

X AVOID

Asking the agent to 'find information about Seattle.' This gets general results and doesn't help pinpoint local businesses or specific entities.

✓ INSTEAD

To find local services, use `search_local`. If you need structured data on the city itself, run `search_entities` to resolve places like Seattle.

Relying only on general web results

X AVOID

Asking about a specific industry report and getting mixed articles from multiple sources that contradict each other.

✓ INSTEAD

To narrow the scope, first use `custom_search` to limit results to known, trusted domain websites. Then run `search_web` for supplementary context.

Missing visual requirements

X AVOID

Asking 'Show me pictures of minimalist buildings' and only getting links to articles *about* architecture.

✓ INSTEAD

Use `search_images` specifically. This tool filters results explicitly for image thumbnails, giving you direct access to the visuals.

The Right Fit

Use this MCP if your job requires real-time data and structured information retrieval. Specifically, when you need to know what's current (news, local listings) or deep facts about people/places (entities). Don't use it if you only need basic document analysis; for that, a simple file reader is enough. If your goal is just general web scraping without structure, `search_web` works. But remember, if you need to know *if* the information comes from a trusted source or needs type-safe validation before writing code, consider an

alternative structured data tool.

This MCP shines when combining multiple tools: use `trending_news` for context, then `search_local` for actionable details, and finally `search_entities` to structure those findings into a report.

Bing Search MCP: Solving the Problem of Stale News Reporting

Today, news reporting requires copy-pasting links from various sources, cross-referencing dates, and manually checking if a story is still relevant or has been updated. You spend hours piecing together a timeline that might be based on old press releases.

With this MCP, your agent pulls real-time syndicated global news using `search_news`. It groups articles by timestamp clusters and provides immediate access to macro trending topics, giving you an instant, verifiable global pulse.

Bing Search MCP: Deepening Content Context with Entity Graphs

Without this capability, when writing about a notable person or historical location, your agent has to guess the relationship between entities—is Person X related to Place Y through Event Z? You have to manually look up those connections.

Now, you can use `search_entities`. It resolves and maps deeply structured entity graphs (Knowledge Graph mappings) instantly. This means your content is not just factually correct; it's structurally robust.

Bing Search 10 Tools for Web Data Retrieval

Use these specific tools to guide your agent through every aspect of the web—from searching images to finding trending topics.

#	TOOL	DESCRIPTION
01	search_local	Forces the system to extract explicit local business listings rather than returning standard general web pages.
02	search_news	Queries and retrieves syndicated global news articles, grouping results by time clusters from various PR sources.
03	custom_search	Restricts search queries to only those domains that have been explicitly whitelisted in a predefined configuration.
04	search_entities	Retrieves deeply structured data by bounding rich entity graphs, mapping famous persons, places, or objects.
05	search_images	Searches for specific image results and returns them with native metadata, such as calculated pixel dimensions.
06	spellcheck	Performs semantic NLP spell checking on short strings to correct tokens based on context rather than just dictionary matches.
07	autosuggest	Fetches automated, real-time query completion suggestions by matching partial queries against the service's ML logs.
08	trending_news	Discovers major viral news topics that are currently trending globally, ignoring specific keywords for broader context.
09	search_videos	Retrieves indexed video stream links and metadata, tracking the associated native motion array data.
10	search_web	Performs a standard web search using the Microsoft Bing Graph, scraping up to 50 organic results mapped directly from the graph.

See It in Action

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

U What are the top 3 viral news stories globally right now?



Global Viral Trends Report

- 🚀 Launch of new orbital telescope (Science)
- 📈 Global market indexes surge following policy change (Finance)
- 🏆 International sports finals updates (Sports)

Sources: [Source 1 URL] | [Source 2 URL]

U Find me the best-rated local coffee shops near downtown.



Local Coffee Recommendations

SHOP NAME	RATING	DISTANCE
Daily Grind	4.8/5	0.3 mi
Bean Scene	4.5/5	0.7 mi

Please check out the menu link for more details.

U I need a high-res image of brutalist architecture in the rain.



Here are several image thumbnails matching your criteria. The results include native pixel dimensions for quality checking:

- [Image URL 1] (Dimensions: 400×600)
- [Image URL 2] (Dimensions: 800×1200)
- [Image URL 3] (Dimensions: 1920×1080)

Frequently Asked Questions

01 How does the Bing Search MCP help my agent access real-time facts?

It gives your agent a live connection to the web, meaning it pulls current information about anything from global news trends to local business hours. This prevents your agent from giving out outdated or fabricated data.

02 Can I use Bing Search MCP for research projects that need structured data?

Yes. You can run `search_entities` to resolve famous people, places, and objects into structured graphs. This lets your agent move beyond simple text summaries and build a detailed knowledge map of the topic.

03 What if I only want results from my company's website?

You use the `custom_search` tool to lock down the search query. You provide a list of whitelisted domains, so your agent will never pull information from outside those specific corporate sites.

04 How do I make my agent find local services using Bing Search MCP?

Use the `search_local` tool. It is designed to force extraction of detailed local business listings, making it perfect for finding service providers or store locations in a specific area.

05 Does this MCP help me source images and videos with metadata?

Absolutely. The `search_images` tool filters results specifically by image thumbnails, giving you access to their native pixel dimensions. Similarly, the `search_videos` tool retrieves links along with motion array data.

06 Is Bing Search MCP better than just using a standard web search API?

Yes. This MCP wraps the complex APIs into simple tools your agent can use directly. It gives you dedicated functions for tasks like identifying trending topics or checking local listings, making the process cleaner and more reliable.

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 `"bing-search-1": { "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

Bing Search 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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