MCP SERVER | NO CODE | CLOUD HOSTED

Keyword Proximity Checker MCP for AI Agents

Assessing Topical Density and Keyword Clusters for SEO Content

The Keyword Proximity Checker analyzes written content by calculating the exact word distance between keywords. It helps SEO specialists assess if related terms are clustered naturally in a piece, indicating stronger topical relevance for search engines.

A+ Quality Score 100/100

seo | keywords | proximity | text-analysis | tokenization

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vinkius.com/mcp/keyword-proximity-checker

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.

Keyword Proximity Checker MCP

3 tools available
Cloud-hosted on Vinkius

Do you struggle to tell if your keyword usage feels forced or natural? This MCP diagnoses semantic relevance within any text. By pinpointing the precise number of words separating key terms, it lets writers and SEO experts validate topical density. You can use it to check if pairs of keywords meet a minimum distance requirement or find dense groups of related terminology that signal authority to search engines. When you connect this tool via Vinkius, your AI client reads the text and instantly reports on how tightly clustered your key phrases are. This means you stop guessing about keyword placement; you start knowing exactly where to edit for maximum impact.

Core Capabilities

01 — Measure Keyword Word Distance

Calculates the precise count of words separating two specific terms in a body of text.

02 — Validate Proximity Thresholds

Checks if designated keyword pairs maintain a distance within a predefined range, confirming optimal placement.

03 — Detect Keyword Groups (Clusters)

Identifies sections of text where multiple related keywords appear in close proximity.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/keyword-proximity-checker** — connect your AI agent in three steps.

01 Provide your AI client with the text you want to analyze and the specific keywords you're checking.

02 The MCP processes the input, calculating word gaps and assessing how many of your defined pairs meet their required proximity rules.

03 You get a detailed report that highlights keyword clusters or flags any terms that are too far apart for optimal SEO.

The bottom line is you stop manually counting words to validate if your content naturally groups related keywords together.

Built For

This MCP serves anyone who writes or manages high-volume online content. Content marketers need it when they're constantly editing drafts for SEO. Technical writers use it to ensure highly specific jargon appears in contextually rich groupings, while digital strategists rely on it for overall topical mapping.

SEO Specialist

Uses the MCP to analyze existing blog posts and landing pages, ensuring keywords are grouped naturally to boost perceived authority.

Content Marketing Manager

Manages large content calendars by running bulk checks on drafts to ensure thematic consistency across all published articles.

Technical Writer

Applies the tool when writing complex documentation, confirming that related technical terms appear near each other for better search visibility.

What Changes When You Connect

01 Confirm natural keyword grouping. Instead of guessing, use the tool to find true clusters using `detect_keyword_clusters`.

02 Guarantee optimal spacing between terms. The MCP lets you set rules and validate pairs instantly with `evaluate_proximity_status`.

03 Pinpoint exact word gaps. Need to know if 'widget' and 'software' are too far apart? Use `get_word_distance` for a precise number.

04 Write more authority-rich content. By validating proximity, you improve the perceived topical depth of your articles.

05 Save manual editing time. You skip copy-pasting text into separate tools; the AI agent handles the analysis flow.

Real-World Applications

Optimizing a Product Landing Page

A marketer needs to prove that 'AI software' and 'customer data' appear close together on a new product page. They ask their agent to use the MCP to check for pairs meeting a distance of 2 words, ensuring they hit critical SEO thresholds.

Improving Blog Topic Depth

An SEO editor takes an article draft and runs it through the MCP, asking it to find all keyword clusters for 'sustainability' and 'supply chain.' This instantly reveals sections needing more related terminology.

Reviewing Technical Whitepapers

A technical writer submits a long document and needs confirmation that core concepts like 'API endpoints' and 'authentication protocol' are consistently grouped near each other. They use the tool to identify these key clusters.

Patterns to Avoid

Checking keywords one by one

✗ AVOID

Copying a text block, then manually running the distance check for every single keyword pair. This takes hours and is prone to human error.

✓ INSTEAD

Let your AI client run the MCP across the entire document. Use `detect_keyword_clusters` once to map all relationships simultaneously.

Relying on word count alone

✗ AVOID

Assuming that because two keywords are in the same paragraph, they are correctly positioned for SEO purposes.

✓ INSTEAD

The MCP calculates precise gaps. Use `evaluate_proximity_status` to enforce a minimum distance of 1 or less.

The Right Fit

Use this MCP if your goal is measuring the physical relationship between keywords in text—specifically, how many words separate them. This is crucial for validating topical density and clustering for high-stakes SEO content. Don't use it if you simply need to know *if* a keyword exists; other tools handle that. Also, don't rely on this MCP to rewrite bad copy; it only analyzes word spacing. If your core problem is low volume of keywords, focus on content generation first. If the content is there but needs structural validation, then this MCP is exactly what you need.

Keyword Proximity Checker for AI Agents: Solving Topical Density Gaps

Today, writing high-ranking content means more than just dropping keywords into text. You spend ages editing a single article, manually checking that related terms aren't too far apart or grouped correctly to signal topical authority. It’s tedious

With this MCP, you simply ask your agent to analyze the full document for keyword clusters. You get an instant map showing where your core topics are dense and exactly which pairs need tightening up. You stop guessing about natural

work of copy-pasting chunks of text and running basic checks.

flow; you start building content that search engines understand.

Keyword Proximity Checker: Analyzing Keyword Clustering in SEO Content

The manual process of checking keyword placement means losing valuable time. You have to check 'keyword A' relative to 'keyword B', then repeat the whole process for dozens of other pairs, making it impossible to maintain consistency across a large document.

This MCP automates that entire audit. It identifies all natural groupings and lets you validate specific gaps with one command. Your content moves from being merely keyword-stuffed to genuinely authoritative.

Keyword Proximity Checker: 3 Tools for Content Analysis

These tools allow you to calculate word distance, evaluate proximity status, or detect clusters across any text input.

#	TOOL	DESCRIPTION
01	`evaluate_proximity_status`	Determines if specific pairs of keywords meet a set proximity threshold in your text.
02	`detect_keyword_clusters`	Locates groups where multiple related keywords appear close together within the provided document.
03	`get_word_distance`	Calculates the precise number of words separating two specified keywords in a given text sample.

See It in Action

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

U How far apart are 'quantum computing' and 'data encryption' in this article?

Analysis Report: Word Distance

Keywords: *quantum computing, data encryption*
• **Text Snippet Analyzed:** "...the shift toward advanced hardware requires robust security measures like data encryption when dealing with quantum computing applications."
• **Distance Found:** 7 words.

(Status: Acceptable. The gap is within the recommended threshold of 5-10 words.)

U Check if 'content strategy' and 'user journey' are close enough in this draft?

Proximity Check Results

KEYWORD PAIR	ACTUAL DISTANCE	STATUS (MAX=3)
content strategy - user journey	2 words	**Near**
keyword gap - SEO best practice	8 words	Too Far

The pair 'content strategy' and 'user journey' is perfectly placed, indicating strong thematic cohesion.

U Find any clusters for ['machine learning', 'deep neural network'] in this document.

Cluster Detection: Found 2 Clusters

1. **Start Index 4, End Index 7:** Contains ['advanced', 'machine learning', 'models', 'deployment']. This is a high-density cluster.
2. **Start Index 12, End Index 15:** Contains ['training', 'deep neural network', 'parameters', 'optimization']. This confirms strong related topic grouping.

Frequently Asked Questions

01 **How does the Keyword Proximity Checker help me with SEO content?**

It proves that your keywords are grouped naturally. Instead of just mentioning terms, it calculates word gaps to show search engines and readers that your topic is deep, making your page more authoritative.

02 **What is topical density and why should I care about keyword proximity?**

Topical density means covering a subject from all angles. Keyword proximity checks validate this by ensuring related terms appear near each other, proving to search engines you're an expert on the topic.

03 **Can I use the Keyword Proximity Checker for non-English text?**

The tool operates based on word counting and spacing. While it works with many languages, ensure your AI client handles tokenization correctly to get accurate results.

04 **Does this MCP just count words or does it analyze meaning?**

It analyzes the physical placement of specific keywords by counting word gaps. It measures distance, not semantic meaning, but that proximity is what signals strong thematic grouping to search engines.

05 **If I use the Keyword Proximity Checker, will my content sound robotic?**

No. The goal isn't keyword stuffing; it's validation. By ensuring natural clustering, you make your writing feel authoritative and naturally structured to a human reader.

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 `"keyword-proximity-checker": { "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

Keyword Proximity Checker 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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Endpoint	`https://edge.vinkius.com/{token}/mcp`

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