MCP SERVER | NO CODE | CLOUD HOSTED

Core Web Vitals Scorer MCP for AI Agents

Evaluating Site Speed Metrics for Search Engine Ranking

Core Web Vitals Scorer evaluates three critical web performance metrics—LCP, INP, and CLS—against industry standards. It gives you a composite health score and estimates how these scores might impact your site's search ranking. Stop guessing about page speed; get actionable data that tells you exactly where to improve.

B Quality Score 85/100

lcp | inp | cls | web-vitals | google-seo | performance

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vinkius.com/mcp/core-web-vitals-scorer

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.

Core Web Vitals Scorer MCP

0 tools available
Cloud-hosted on Vinkius

Websites need to load fast and feel responsive. But simply knowing the speed isn't enough; you need context. This MCP connects web performance metrics (LCP, INP, CLS) against established Google standards. It doesn't just give you a number; it analyzes that data to give you a composite health score and estimates your potential SEO impact. Instead of manually checking different dashboards for every metric, you feed the raw numbers into this MCP. Your agent processes them instantly, telling you if they fall in the 'Good,' 'Needs Improvement,' or 'Poor' range, and pinpointing exactly which area needs work. Accessing these kinds of detailed analytics used to mean juggling multiple expensive monitoring tools. Now, with Vinkius as your central catalog, you connect this MCP once and get expert-level performance scoring right where you're already working.

Core Capabilities

01 — Assess single metric status

Determine if a specific metric value (like LCP or CLS) meets defined quality thresholds.

02 — Run a full performance analysis

Evaluate all three major metrics—LCP, INP, and CLS—at once to generate an overall site health score.

03 — Reference scoring boundaries

Look up the exact acceptable ranges for each Core Web Vitals metric based on industry best practices.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/core-web-vitals-scorer** — connect your AI agent in three steps.

01 You feed your raw web performance data—the numbers for LCP, INP, and CLS—to this MCP via your AI client.

02 The system analyzes these inputs against standardized industry thresholds to calculate a composite health score.

03 Your agent returns clear status classifications (Good/Poor) and an estimate of the potential SEO ranking impact.

The bottom line is you get an immediate, comprehensive performance report without having to consult multiple external auditing tools.

Built For

This MCP is essential for web developers and digital marketing teams who aren't sure if their site speed issues are hurting visibility. If you spend hours manually cross-referencing performance data from different dashboards, this tool saves your time.

SEO Specialist

Determines which specific performance metric (LCP vs. CLS) is currently costing the site the most potential search ranking points.

Front-End Developer

Tests new code implementations against established thresholds to ensure they improve overall page speed before deployment.

Product Manager

Uses the composite health score to prioritize development sprints, focusing first on metrics that have the biggest impact on user experience.

What Changes When You Connect

01 Stop guessing about page speed. Use `analyze_performance_suite` to generate a single, composite health score that tells you where your site actually stands.

02 Get immediate status checks on specific metrics by calling `classify_metric_value`, instantly knowing if an LCP of 2.5 seconds is acceptable or not.

03 Avoid rework cycles by using `get_threshold_reference` to confirm the exact numerical boundaries for CLS and INP before your team starts coding.

04 The tool estimates potential SEO ranking impact, giving you a direct line between technical fixes and search visibility improvements.

05 It standardizes complex performance data, allowing your agent to process metrics across different frameworks or platforms with consistent results.

Real-World Applications

Auditing a slow-loading landing page

A marketer runs into poor user retention on a key landing page. They feed the LCP, INP, and CLS data to the MCP; it returns an overall health score of 45/100 and flags that the high CLS is causing significant bounce rate issues.

Comparing against best practices

An SEO team member needs proof points for a client meeting. They use `get_threshold_reference` to show the precise, current scoring boundaries for LCP and INP, backed by industry standards.

Pre-launch performance sign-off

A developer finishes a major redesign. They use `analyze_performance_suite` to test the full suite, ensuring all metrics are 'Good' before handing it over for final SEO review.

Patterns to Avoid

Checking metrics in isolation

✗ AVOID

Looking only at a low CLS score and thinking the site is fine. This ignores that an excellent CLS can be negated by a terrible LCP, leading to false confidence.

✓ INSTEAD

Always use `analyze_performance_suite`. It combines all three metrics into one composite health score, giving you a true picture of overall performance.

Relying on single-point speed checks

✗ AVOID

Using generic website speed tools that only measure simple load times. These fail to capture complex user interactions or layout shifts.

✓ INSTEAD

Use `classify_metric_value` for specific metrics like INP. This focuses the analysis on actual user interaction quality, which is what search engines prioritize.

Ignoring current scoring boundaries

✗ AVOID

Assuming that last year's 'good enough' scores still work today. Performance standards change fast; outdated benchmarks lead to incorrect fixes.

✓ INSTEAD

Always start with `get_threshold_reference` to confirm the most up-to-date, required numerical ranges for LCP and CLS.

The Right Fit

Use this MCP if your problem is understanding *why* a page loads slowly or why it performs poorly in search results. You need context that links raw data (like 'LCP was 3.5 seconds') to an actionable outcome ('This hurts SEO'). Don't use it if you just want to know the current pixel size of an element, or if your site is brand new and has no performance metrics yet. If you only have a single, isolated speed number, start there with `classify_metric_value`. But for any serious review—the kind that impacts user experience or rankings—you must run the full suite using `analyze_performance_suite` to get a holistic grade.

Core Web Vitals Scorer: Solving Site Speed Flaws with Performance Metrics

Today, optimizing speed means clicking through three different vendor dashboards. One dashboard tells you the LCP is bad; another gives a confusing CLS score, and a third only provides general load time metrics. You end up copying raw numbers, opening spreadsheets, and trying to correlate them all manually to figure out what's actually hurting your user experience.

With this MCP, you feed those three raw data points into the system. It immediately calculates a single composite health score and tells you exactly which metric is dragging everything down. You stop wading through dashboards and get one clear verdict: what needs fixing.

Core Web Vitals Scorer: Pinpointing SEO Impact with Performance Metrics

Before this, connecting performance failures to actual ranking impact was guesswork. You might fix the CLS and *hope* it helps your visibility; you had no way of quantifying that risk or reward.

Now, after running `analyze_performance_suite`, the system doesn't just give a grade—it estimates the potential SEO effect in plain language. That quantifiable link between fixing an element and boosting search rank is huge.

See It in Action

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

U Analyze this performance data: LCP 2.8s, INP 450ms, CLS 0.15.

Performance Analysis Report

Based on the inputs:

- **Overall Health Score:** 68.0/100 (Medium)
- **Estimated Ranking Impact:** Moderate Negative

The analysis highlights that while CLS is acceptable, the LCP and INP scores are pushing your site into a 'Needs Improvement' zone, which will likely limit visibility on search results pages.

U What are the current thresholds for CLS?

Core Web Vitals Thresholds (2024)

The scoring boundaries change, but here is the general guide:

- **Good:** Value below 0.1
- **Needs Improvement:** Value between 0.1 and 0.25
- **Poor:** Value above 0.25

Knowing these thresholds helps your development team target improvements precisely.

U Can you give me the status of an INP of 350ms?

Metric Status Check: Interaction to Next Paint (INP)

Result: Needs Improvement

- **Your Value:** 350ms
- **Threshold Range:** Ideal is below 200ms.
- **Actionable Insight:** This score indicates noticeable jank or lag during user interactions. Focus optimization efforts on JavaScript execution and main thread blocking.

Frequently Asked Questions

01 **How does the Core Web Vitals Scorer help with general site speed issues?**

It goes deeper than simple load times. The Core Web Vitals Scorer measures how your page *feels* to the user—how fast elements paint (LCP) and how smoothly interactions feel (INP). This helps you fix the real, frustrating slowdowns.

02 **Is this tool better than just checking Google PageSpeed Insights?**

It provides more context. While other tools give scores, the Core Web Vitals Scorer analyzes those metrics against established thresholds and gives you a composite health score plus an estimated SEO impact, making the data actionable.

03 **What does 'Needs Improvement' mean for my website?**

It means your page is functional but has noticeable flaws—like occasional jankiness or slow loading of large images. Fixing these small issues can significantly boost user satisfaction and search rankings.

04 **Can I use the Core Web Vitals Scorer for non-website platforms?**

No, this MCP is specifically designed to evaluate standard web performance metrics (LCP, INP, CLS) that apply only to web pages and digital content.

05 **What if I don't know which metric is the biggest problem?**

Run the `analyze_performance_suite`. It runs all three metrics through the system and gives you a single, prioritized overall health score, telling you exactly where to focus your development efforts first.

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 `"core-web-vitals-scorer": { "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

Core Web Vitals Scorer 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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