

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Album Duration Analyzer MCP

Get instant statistical insights into music album lengths.

Album Duration Analyzer lets your AI client pull music metadata to perform precise length calculations. You can pull entire album lists, check specific track details, find the mean duration for specific genres, and see how a single record stacks up against industry averages.

music

albums

duration

statistics

metadata



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.

Album Duration Analyzer MCP

4 tools available

Cloud-hosted on Vinkius

You can use this MCP to turn your AI agent into a music data analyst. Instead of manually checking track times, you can ask your client to pull data from the catalog and run math on it immediately. You can pull a full list of available albums or dive into the specifics of a single record to see exactly how long it runs. If you are looking for patterns, you can calculate the mean duration for a specific genre or group of albums to see what the standard length looks like. You can also take a specific album and compare its total runtime against a baseline average to see if it's an outlier. It's a direct way to get quantitative data about music catalogs without leaving your coding or chat environment.

Core Capabilities

01 — Catalog Retrieval

Your agent pulls the full list of available albums to start an analysis.

02 — Genre Averaging

The AI calculates the mean runtime for specific musical genres.

03 — Comparative Analysis

Your client compares a specific album's length against a set baseline.

04 — Metadata Extraction

The agent fetches deep details for individual albums on demand.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/album-duration-analyzer — connect your AI agent in three steps.

- 01 Connect your MCP-compatible client to Vinkius.
- 02 Ask your agent to retrieve an album list or specific album details.
- 03 Request a calculation for average durations or comparisons.
- 04 Receive the processed data directly in your chat interface.

Connect your client to Vinkius and start asking questions about music data.

Built For

This is built for people working with music metadata and catalog statistics.

Music Data Analysts

They hand off the heavy lifting of calculating genre averages to their agent.

Music Librarians

They use the tool to audit catalog lengths and metadata consistency.

Content Curators

They check album runtimes to ensure variety in playlists or collections.

What Changes When You Connect

- 01

Eliminates manual math by performing duration calculations directly in the chat.
- 02

Provides instant comparisons between individual records and group averages.
- 03

Accesses specific album metadata without manual searching.

Real-World Applications

Genre Benchmarking

Determine if a new release is unusually long or short compared to its genre average.

Catalog Auditing

Pull a full list of albums to verify metadata coverage.

Playlist Planning

Use average durations to estimate the total runtime of a collection of albums.

Data Verification

Check the specific length of an album using its unique ID.

Patterns to Avoid

Manual math errors

❌ AVOID

You try to manually add up track times from a list to find a total runtime. This is slow and prone to mistakes.

✓ INSTEAD

Let the agent do the math for you. Use ``calculate_average_duration`` to get precise means for any group of albums.

Vague catalog queries

❌ AVOID

You ask your agent to find out if an album is long without knowing the genre standard. You end up with no context.

✓ INSTEAD

Establish a baseline first. Use ``compare_album_lengths`` to see how a specific record stacks up against a set average.

Blind metadata searching

❌ AVOID

You hunt through a massive list of files trying to find the length of one specific record.

✓ INSTEAD

Skip the manual search. Use ``get_album_details`` to pull the exact metadata and track info you need instantly.

The Right Fit

Connect this MCP if your work involves managing music catalogs or analyzing metadata trends. If you just listen to music and don't need to run statistics on runtimes, you don't need this. The deciding factor is whether you need to turn music length data into actionable insights.

Album Duration Analyzer Tools

These tools give your agent direct access to music catalog metadata and the math needed to analyze runtime patterns.

#	TOOL	DESCRIPTION
01	calculate_average_duration	This tool finds the mean duration for a specific set of albums you select.
02	compare_album_lengths	Use this to check how a specific album's total runtime compares to a baseline average.
03	get_album_details	This tool pulls specific metadata and track information for a single album.
04	get_album_list	This tool retrieves the full list of available albums from the catalog.

See It in Action

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

U What is the average duration of albums in the Rock genre?



The average duration for Rock albums is 3420 seconds (57 minutes).

U How long is the album with ID 'alb-123'?



The album 'Midnight Melodies' has a total duration of 2150 seconds.

U Is the album 'alb-456' longer than the average of 'alb-001' and 'alb-002'?



Yes, 'alb-456' is 300 seconds longer than the baseline average of the selected group.

Frequently Asked Questions

01 What clients can I use with this MCP?

You can use this with any MCP-compatible client like Claude, Cursor, Windsurf, or VS Code.

02 Do I need to host the MCP myself?

No, Vinkius hosts and manages the MCP for you, so it is ready to use immediately after connection.

03 Can I compare an album to a specific genre average?

Yes, you can use the comparison tools to check an album's length against a baseline average.

04 How do I identify a specific album?

You can use the album ID to pull specific details through the `get_album_details` tool.

05 Does this MCP work with my existing music database?

This MCP works with the catalog provided through the Vinkius connection.

06 How can I find the average length of all Jazz albums?

You can use the ``calculate_average_duration`` tool and provide 'Jazz' as the genre filter.

07 Can I compare a specific album to a group of others?

Yes, use the ``compare_album_lengths`` tool by providing the target album ID and a list of comparison album IDs.

08 What information is included in album details?

The ``get_album_details`` tool returns the album title, artist, total duration in seconds, and a full list of tracks with their individual durations.

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>"album-duration-analyzer": { "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

Album Duration Analyzer 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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Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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