

MCP SERVER

NO CODE

CLOUD HOSTED

# Duolingo MCP for AI Agents

Track language learning progress, streaks, and leaderboards.

Duolingo connects your AI agents directly to public language learning data. Track streaks, view full user profiles, monitor XP gains, check friend progress, and get instant translation hints between dozens of languages using this MCP. It lets you analyze skill progression and leaderboard rankings without needing private API keys.

**A+** Quality Score 100/100

language-learning

gamification

user-progress

skill-tracking

educational-data

leaderboards



# 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

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## 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

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## 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

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## 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](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# Duolingo MCP

8 tools available

Cloud-hosted on Vinkius

This MCP gives your AI agent read access to Duolingo's public data streams. You can track everything from a user's total XP count to their current streak length, or pull up a friend's full profile snapshot. Need to build flashcards? Use the dictionary hint tool to get instant translation pairs for any two languages. It keeps things simple because you don't need an API key just to read this data.

When you connect this MCP via Vinkius, your AI agent can access all these metrics—leaderboard rankings, store item details, and user stats—and weave them into natural conversations or reports. You simply tell your agent what information you want, and it pulls the relevant Duolingo progress data right through.

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## Core Capabilities

### 01 — View User Profiles by Username or ID

Retrieves core user details like XP total, current streak count, primary language, and overall skill level.

### 02 — Check Leaderboard Rankings

Shows the top learners for a specific language on either the daily or general leaderboard.

### 03 — Monitor Friends' Progress

Lists usernames, IDs, and current streak/XP totals for a specified group of friends.

### 04 — Build Vocabulary Flashcards

Returns instant translation pairs between any two supported languages using dictionary hints.

### 05 — View Store Item Details

Browses the Duolingo store to get names, prices, and IDs for items like streak freezes.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/mcp/duolingo](https://vinkius.com/mcp/duolingo) — connect your AI agent in three steps.

- 01 Subscribe to this MCP in Vinkius. You'll connect your preferred AI client (Claude, Cursor, etc.).
- 02 Tell your agent what data you need—for instance, 'What was the top Spanish learner yesterday?' or 'Show me a friend's streak.'
- 03 Your agent calls the appropriate tool and returns clean, structured Duolingo progress data directly to your conversation.

The bottom line is, it gives any AI client instant access to public language learning metrics and user profiles without needing complex authentication setup.

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## Built For

Language educators who need quick insights into student engagement, or content creators building gamified educational tools. If you track progress or build vocabulary around different languages, this MCP is for you.

### Tutor/Teacher

Checks class leaderboards to see who needs a push and monitors student streaks to keep engagement high.

### EdTech Developer

Builds proof-of-concept language tools, using user profile data and dictionary hints for core functionality testing.

### Language Enthusiast

Compares their own progress against friends or analyzes what the top learners are doing on a given leaderboard.

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## What Changes When You Connect

- 01 Instantly gauge student engagement by calling `get_daily_leaderboard` to see who is active in a specific language today. This saves you the time of manually checking rankings across multiple platforms.

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- 02** Build better study tools by using `get_dictionary_hints`. Your agent can pull translation pairs on demand, making it easy to generate vocab lists for any two languages.
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- 03** Keep students motivated. Use `get_user_by_username` or `get_friends` to quickly share progress updates and show off high streaks without leaving your main workflow.
- 
- 04** Understand the full scope of learning by calling `get_version_info`. This allows you to know which language codes are supported before writing any code, saving development time.
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- 05** Manage classroom incentives. You can review item costs and names using `get_store_items` if you plan on building a gamified reward system into your application.
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## Real-World Applications

### Analyzing Student Performance in a Class

A teacher needs to report on class performance. They ask their agent, 'Who is falling behind in Spanish?' The agent calls `get_user_by_username` for the top 10 students and compiles a summary of low XP counts and short streaks.

### Competitive Reviewing Among Friends

A language lover wants to compare progress with a friend. They ask their agent to use `get_friends` and get a comparison table showing who has the higher XP total and longer streak in German this week.

### Creating a Personalized Vocabulary Quiz

A developer builds a quiz that needs word definitions. Instead of hardcoding translations, they ask their agent to use `get_dictionary_hints` for 'cat' from English to French, and the hints feed directly into the quiz generation logic.

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# Patterns to Avoid

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## Over-relying on single data points

### X AVOID

Assuming that just because you know a user's current language from one profile call, they are proficient in it. This ignores overall progress.

### ✓ INSTEAD

Don't rely solely on the initial user profile. Use ``get_user_by_username`` to get core stats, then follow up with ``get_leaderboard`` for a more comprehensive view of their ranking against peers.

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## Ignoring language scope

### X AVOID

Trying to build a universal translation tool without knowing which languages the data supports. This leads to broken hints.

### ✓ INSTEAD

Always call ``get_version_info`` first. It tells you exactly what language codes are available, ensuring your dictionary hint calls work correctly.

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## Missing context on status

### X AVOID

Asking for a friend's profile without knowing if the data is current or just historical. The resulting report might be misleading.

### ✓ INSTEAD

Always check the ``get_daily_leaderboard`` when checking progress, as this gives you the most recent competitive snapshot of who's active today.

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# The Right Fit

Use this MCP if your primary goal is tracking measurable language learning metrics—XP, streaks, and rankings. You need to analyze public profile data or build vocabulary tools using dictionary hints. Don't use it if you require private user information (like detailed skill tree progress), because full profile details need authentication for the account owner only. If you just want general knowledge about Duolingo's features without tracking users, check `get_store_items`. But if your workflow involves complex, multi-step educational content generation that goes beyond simple data retrieval, you might need a specialized learning management system integration instead.

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## Duolingo MCP: Tracking Language Learning Progress and Streaks

Today, checking progress is manual. You have to hop between the Duolingo app, export spreadsheets of friend streaks, or manually compare XP scores to see who's falling behind in a class. This takes time and it's hard to synthesize into a single, actionable report.

With this MCP, your agent handles the heavy lifting. You can ask for specific metrics—like the current leaderboard rankings or a user's latest profile snapshot—and get structured data instantly. Your AI client compiles all that messy progress information into a clean summary you can use immediately.

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## Duolingo MCP: Building Vocabulary Tools with Dictionary Hints

Building vocabulary flashcards used to involve tedious copy-pasting. You'd look up words in one language, then manually search for the translation pairs in a second tool or spreadsheet.

Now, simply ask your agent to pull dictionary hints between two languages and give you structured results. This capability turns simple data lookup into an automated component of any learning application.

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## 8 Duolingo Tools for Tracking Language Learning Data

These tools let your agent retrieve specific data points, from friend lists to daily leaderboard rankings, powering advanced educational applications.

#	TOOL	DESCRIPTION
01	<code>get_daily_leaderboard</code>	Shows the top users by XP for a specific language on the current day.
02	<code>get_dictionary_hints</code>	Returns translation pairs for given words, useful for creating vocabulary flashcards.
03	<code>get_friends</code>	Retrieves a list of friends, including their streaks and total XP.
04	<code>get_leaderboard</code>	Gets detailed leaderboard info for a specific user or language.
05	<code>get_store_items</code>	Lists Duolingo store items, including names and prices.
06	<code>get_user_by_id</code>	Retrieves a user's public profile data using their numeric ID number.
07	<code>get_user_by_username</code>	Gets a user's full profile summary, including XP, streak, and current language, by username.
08	<code>get_version_info</code>	Provides information on supported languages and the API version for planning integrations.

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## See It in Action

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

**U** What's the current leaderboard for Spanish learners today?



### Top 5 Spanish Learners (Today)

RANK	USERNAME	XP TOTAL
1	polyglot_pro	850
2	maria_es	720
3	john_doe	650

*Keep up the streak!*

**U** Show me my friend 'language\_lover' profile and how many skills they have.



### User Profile: language\_lover

- **Total XP:** 580
- **Current Streak:** 45 days
- **Language:** Spanish (from English)
- **Skills Completed:** 23/50. Needs work on 'Past Tense'.

Good job keeping that streak alive!

**U** Give me translation hints for 'book' and 'river' from English to Italian.



#### Translation Hints (EN → IT)

- **book:** libro, libri
- **river:** fiume

These pairs are great for flashcards. Remember to check the specific gender agreement!

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## Frequently Asked Questions

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### 01 How can I use Duolingo MCP to track my friend's progress?

You can get a snapshot of your friends' profiles, including their usernames, current XP totals, and how long their streaks are. This is great for seeing who needs encouragement.

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### 02 Is Duolingo MCP useful for building vocabulary tools?

Yes. The dictionary hints tool lets you get structured translation pairs between any two languages, which is perfect for automatically generating flashcards or quiz content.

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### 03 Can I see the top learners on a specific day using Duolingo MCP?

You can check the daily leaderboard to see who has earned the most XP today. This gives you a real-time look at current class engagement and competition.

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### 04 Do I need an API key to use the Duolingo MCP in my AI client?

No, this MCP is set up for public data endpoints, so connecting it doesn't require you to manage or provide sensitive API keys.

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### 05 What if I want to compare multiple user stats at once with Duolingo MCP?

You can use the friend list and profile tools sequentially. By calling `get\_friends` first, then passing those IDs into other functions, you build a full picture of your connections' progress.

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# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://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 `"duolingo": { "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

# Duolingo 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](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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### DOCUMENT INFORMATION

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