

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

course-progress MCP for educational tracking.

Get precise learner data and course completion metrics instantly.

course-progress MCP gives your AI client direct access to course completion data and lesson status. It handles the math for completion percentages, tracks remaining lessons, and identifies upcoming milestones. You can use it to monitor student progress or audit course data integrity through any MCP-compatible client like Claude or Cursor.

A+ Quality Score 100/100

learning

progress

course

metrics

education-tech



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.

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.

course-progress MCP

4 tools available

Cloud-hosted on Vinkius

You can use this MCP to give your AI agent a clear view of how learners are moving through your educational content. Instead of manually checking spreadsheets or databases, you just ask your AI client for the numbers. It can calculate exact completion percentages, count how many lessons are left, and pinpoint exactly where a student stands in their journey. If you need to ensure your course data is accurate, the MCP can run integrity checks to make sure the math holds up. It's a direct way to turn raw course data into actionable progress reports without leaving your chat interface.

Core Capabilities

01 — Percentage Calculation

Your agent uses this to report exactly how much of a course a student has finished.

02 — Lesson Auditing

The AI uses this to count completed versus remaining lessons in a curriculum.

03 — Milestone Tracking

Your agent identifies specific progress markers to help users see their upcoming goals.

04 — Data Validation

The MCP runs integrity checks to confirm course data is correct before reporting numbers.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/course-progress — connect your AI agent in three steps.

- 01
- Connect the MCP to your client like Claude or Cursor via Vinkius.
- 02
- Provide the specific course ID to your AI agent.
- 03
- The agent calls the necessary tool to fetch progress or milestone data.
- 04
- Your agent delivers the calculated results or lesson counts directly in the chat.

Connecting this MCP to your workflow takes seconds and works through your existing AI tools.

Built For

This MCP is built for people managing digital learning platforms or educational content.

Instructional Designers

They hand off curriculum structure to the AI to monitor how content is being consumed.

EdTech Product Managers

They use the AI to pull quick metrics on user engagement and course completion rates.

Learning Administrators

They task the AI with verifying student progress and identifying stalled learners.

What Changes When You Connect

- 01
- Eliminates manual math for course completion percentages.
- 02
- Provides instant lesson-level breakdowns through natural language.
- 03
- Ensures data accuracy with built-in integrity verification.

04 Identifies upcoming learner milestones automatically.

Real-World Applications

Student Progress Reporting

Ask your AI client to summarize how much of a specific course a user has completed.

Curriculum Auditing

Use the tool to check if the number of completed lessons matches the expected course progress.

Goal Setting

Have your agent show a student their next milestone to keep them motivated.

Data Integrity Checks

Run a verification to make sure course progress data hasn't become corrupted or inconsistent.

Patterns to Avoid

Guessing completion numbers

❌ AVOID

You ask your agent to estimate how far a student has gone based on general engagement. This leads to inaccurate reporting.

✓ INSTEAD

Ask for the exact percentage using `get_course_completion` to get a precise number.

Ignoring data errors

❌ AVOID

You rely on a progress report even though the numbers look slightly off compared to your manual logs.

✓ INSTEAD

Run `verify_course_integrity` to confirm the underlying data is actually correct before you trust the output.

Vague progress inquiries

❌ AVOID

You tell your agent to check if a student is doing well without specifying what you need to know.

✓ INSTEAD

Use `get_lesson_progress_details` to see a specific breakdown of completed and remaining lessons.

The Right Fit

Connect this MCP if you manage digital learning platforms and need real-time student metrics. Don't connect it if you only handle static, non-interactive content. The decision depends on whether you need to pull live progress data directly into your AI chat interface.

course-progress MCP Tools

These tools give your agent direct access to learner status, lesson counts, and data integrity checks.

#	TOOL	DESCRIPTION
01	get_completion_milestones	This tool pulls upcoming progress milestones for a specific course. Use it to see what percentage marks a learner is approaching next.
02	get_course_completion	This tool calculates the exact percentage of a course that has been finished. It's the fastest way to get a completion score for any course ID.
03	get_lesson_progress_details	This tool provides a full breakdown of lesson status. It shows you exactly how many lessons are completed and how many remain.
04	verify_course_integrity	This tool checks the underlying course data for errors. It ensures that progress calculations remain accurate and reliable.

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 completion percentage for course ID 'math-101'?



The completion percentage for 'math-101' is 75%.

U How many lessons are remaining in the 'history-basics' course?



There are 3 lessons remaining in the 'history-basics' course.

U Show me the progress milestones for course 'science-01' at 20% intervals.



The milestones for 'science-01' are 20%, 40%, and 60%.

Frequently Asked Questions

01 How do I use this MCP with Claude?

You connect to the MCP through the Vinkius platform. Once connected, Claude can immediately use the tools to check course progress.

02 Can this MCP calculate specific lesson counts?

Yes. The `get_lesson_progress_details` tool provides a full breakdown of completed and remaining lessons.

03 Does it work with Cursor or VS Code?

Yes, this MCP is compatible with any MCP-compatible client, including Cursor and VS Code.

04 What happens if the course data is wrong?

The `verify_course_integrity` tool is designed to check the data and ensure calculations are accurate.

05 Do I need to host this myself?

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

06 How is the completion percentage calculated?

The percentage is calculated by dividing the number of completed lessons by the total number of lessons in the course, then multiplying by one hundred.

07 Can I see how many lessons are left in a course?

Yes, you can use the ``get_lesson_progress_details`` tool to see the total, completed, and remaining lessons.

08 What happens if a course has no lessons?

If a course contains zero total lessons, the tool will return an error as progress cannot be calculated.

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>"course-progress": { "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

course-progress 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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