MCP SERVER | NO CODE | CLOUD HOSTED

Moodle MCP

Manage Grades and Track Student Progress Instantly

Moodle MCP connects your Learning Management System data directly to your AI agent. Instantly list courses, check student grades, track completion status, and send messages—all without logging into the Moodle interface. It gives you immediate access to all user enrollment and course content details.

A+ Quality Score 100/100

course-management | student-enrollment | lms | educational-technology | academic-administration

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vinkius.com/mcp/moodle

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.

Moodle MCP

10 tools available
Cloud-hosted on Vinkius

Managing an LMS usually means clicking through endless menus just to get a simple report. This MCP lets your AI agent talk directly to your Moodle account. You can ask it things like, 'Who is enrolled in the advanced math course?' or 'What were John Doe's grades on the last quiz?' It pulls that data instantly by understanding natural language commands. Whether you need to see a list of courses available or check detailed gradebook records for a specific user, your agent handles the complexity. The entire Vinkius catalog makes connecting this data straightforward, so you get actionable insights right where you're working—in your chat client or IDE. You manage everything from course structures and grades to group assignments using nothing but plain talk.

Core Capabilities

01 — List all available courses

Retrieves the names and details of every course currently set up in Moodle.

02 — Manage user rosters

Searches for specific users or lists everyone enrolled within a given class.

03 — Track academic performance

Pulls detailed gradebook data and checks the completion percentage for individual students on courses.

04 — Review assignments and quizzes

Gets lists of all quizzes, assignments, and workshops attached to any course.

05 — Communicate with users

Sends instant messages directly to any Moodle user ID from your chat interface.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/moodle** — connect your AI agent in three steps.

01 Subscribe to the Moodle MCP and provide your site's Web Service Token and Base URL.

02 Connect this MCP to your preferred AI client, like Cursor or Claude.

03 Ask your agent a question about your LMS data (e.g., 'What are the grades for Course X?').

The bottom line is that you treat your Moodle platform like an extension of your chat window.

Built For

This MCP is built for academic staff and administrators who spend too much time clicking through dashboards just to get simple reports. It helps the teacher who needs a class roster fast, or the analyst tracking performance metrics across dozens of students.

Instructor/Teacher

Checks enrollment lists for a course and sends reminder messages to students without leaving their primary workspace.

LMS Administrator

Monitors overall course activities, checks group definitions, and manages user profiles across multiple courses.

Academic Analyst

Automates the retrieval of detailed gradebook data or course completion status for end-of-term performance reports.

What Changes When You Connect

01 Stop manually navigating course menus. You can instantly get a list of all courses available using `get_courses`, so you know exactly where to look next.

02 Get full visibility into who's in class. Instead of exporting CSV rosters, simply ask your agent and use `get_enrolled_users` to see the current student body.

03 Analyze performance data on demand. The `get_course_grades` tool lets you check specific student scores or pull detailed gradebook information without opening a single tab.

04 Know who's falling behind. Use `get_course_completion` to quickly verify if a user has finished all required modules, saving time compared to manually checking status reports.

05 Keep communication flowing. You can send direct messages using `send_message`, making it easy to follow up with students right from your chat window.

Real-World Applications

The End-of-Semester Grade Check

An academic analyst needs to compile a report on final grades. Instead of running five separate reports and cross-referencing them, they ask the agent for `get_course_grades` for all students in 'Advanced Mathematics'. The MCP pulls the structured data instantly, saving hours of manual compilation.

Checking Student Status Before Meeting

A teacher is meeting with a student and needs to know if they finished the course. They ask their agent to run `get_course_completion` for that user in 'Cybersecurity'. The MCP returns the progress status (e.g., 85% complete), allowing the teacher to prepare specific talking points immediately.

Roster Management

An LMS administrator needs a current list of all active users in a large cohort. They use `get_enrolled_users` to pull an accurate, up-to-date roster for the specific course ID without needing to navigate through user roles or group structures.

Targeted Communication

An instructor notices a student needs help with final assignments. They ask their agent to `get_course_assignments` and then use `send_message` immediately afterward, sending targeted instructions about the missing project without having to switch applications.

Patterns to Avoid

Treating it like a general database query

✗ AVOID

The user tries to ask, 'Give me all grades for everyone.' This fails because grade data requires specific inputs (which course and which users).

✓ INSTEAD

Always scope your request. To check performance, use `get_course_grades` and specify both the Course ID and the Student IDs you need information on.

Missing user context

✗ AVOID

Asking 'Send a message to John Doe' without providing his Moodle User ID. The MCP has no way of knowing who 'John Doe' is in the system.

✓ INSTEAD

First, use `get_users` to search for and confirm the exact Moodle User ID. Then, use that specific ID with the `send_message` tool.

Over-relying on course names

✗ AVOID

Asking 'What are the grades in World History?' when there are multiple courses named similarly. The MCP needs precision to avoid confusion.

✓ INSTEAD

Always provide unique identifiers (Course ID, User ID) alongside descriptive information for maximum accuracy.

The Right Fit

Use this MCP if your primary pain point is gathering structured academic data from Moodle—things like grades, completion status, and class rosters. It's perfect when you need to answer questions like 'Who passed the quiz?' or 'What are the final scores for Q3?'

Don't use it if you need to *change* core system settings (like changing a user's password or creating an entirely new course category). For those deep administrative actions, your agent might require a dedicated API client. This MCP is designed for retrieval and communication; it lets you view data and send messages using tools like `get_course_grades` but won't let you modify the foundational structure of the LMS.

The Endless Click-Through Cycle

Today, checking on student progress means logging into Moodle. You click the course name, then navigate to 'Grades' tab, filter by assignment type, and finally export a CSV file—only to repeat that process for five different courses, wasting minutes of your day.

With this MCP, you simply ask your agent: 'Pull the gradebook data for all students in World History.' The task is done instantly, delivering the structured report directly into your chat window. You get the answer without the clicks.

Getting Course Data with Moodle

You used to have to run separate reports for assignments and quizzes, then manually compare them against the main gradebook view. This meant checking `get_course_assignments` details separately from `get_course_quizzes` data just to get a full picture.

Now, your agent gathers all that information through simple commands. You don't have to juggle multiple tabs or cross-reference files; the MCP puts the entire educational record into one conversation.

Moodle with 10 Tools

Use these tools to query course structures, check user progress, or retrieve detailed grade records directly through your AI agent.

#	TOOL	DESCRIPTION
01	`get_course_assignments`	Lists all assignments that are available within a specific course.
02	`get_course_completion`	Determines if an individual user has finished the required modules for a given course.
03	`get_course_groups`	Shows all defined user groups that are attached to a particular class.
04	`get_courses`	Retrieves a list of every course available on the Moodle site.
05	`get_enrolled_users`	Lists all users who are currently registered in a specific course or class.
06	`get_course_grades`	Retrieves detailed grade records and scores for students within a specified course.
07	`get_course_quizzes`	Gets a list of all quizzes created or attached to any module.
08	`get_users`	Searches for Moodle users using basic search criteria like name or ID.
09	`get_course_workshops`	Lists all workshop activities that are part of a specific course structure.
10	`send_message`	Sends an instant, private message directly to another Moodle user ID.

See It in Action

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

U List all my available Moodle courses.

I've retrieved your courses. You have access to 3 courses: 'Introduction to Computer Science', 'Advanced Mathematics', and 'World History'. Would you like to see the list of students enrolled in 'Introduction to Computer Science'?

U What are the grades for students in course ID 5?

Retrieving gradebook for course 5... I've found 12 students. Top performers include 'Alice Smith' (95%), 'Bob Jones' (88%), and 'Charlie Brown' (92%). Would you like the full breakdown for any specific student?

U Check if user 'John Doe' (ID: 123) has finished the 'Cybersecurity' course (ID: 8).

I've checked the completion status for John Doe in course 8. His progress is currently at 85%. He has completed all video lectures but still needs to submit the final project. Shall I send him a reminder message?

Frequently Asked Questions

01 **Can I use Moodle MCP to list my available courses?**

Yes, you can. Use the `get_courses` tool name in your prompt. This instantly provides a list of all courses set up on your site.

02 **How do I find out if a student finished their course using Moodle MCP?**

You use the `get_course_completion` tool. Just provide the user ID and the Course ID, and the agent tells you the exact completion status.

03 **Does Moodle MCP let me send messages to students?**

Yes, it does. The `send_message` tool lets your agent instantly send a private chat message to any specified user ID within Moodle.

04 **What if I need grades for many courses at once with Moodle MCP?**

You'll need to run the `get_course_grades` tool repeatedly, specifying different Course IDs each time. The agent helps manage this sequence of requests.

05 **Can I find a user by name using Moodle MCP?**

Yes. Use the `get_users` tool and provide search criteria like names or partial ID numbers to locate any Moodle account.

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 `"moodle": { "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

Moodle 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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