

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

# Attendance Days Needed MCP

Calculate exactly how many sessions you need to hit your attendance goals.

Attendance Days Needed MCP helps you manage and project attendance metrics. It calculates the number of future sessions required to reach a specific target, assuming perfect attendance. You can check current standing, verify if a goal is mathematically possible, and simulate how your attendance ratio will change over time.

**A+** Quality Score 100/100

attendance

metrics

planning

statistics

education



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

# Attendance Days Needed MCP

4 tools available

Cloud-hosted on Vinkius

You can use this MCP to take the guesswork out of attendance tracking. Instead of manually calculating how many days you need to show up to fix a low percentage, you let your AI client do the math. It works by looking at your current session history and projecting future outcomes based on perfect attendance.

If you are an administrator or a student, you can quickly see if a specific target is even reachable. It's a practical way to plan your schedule around attendance requirements. You can check your current stats, find the exact number of days needed to hit a goal, and run simulations to see how your ratio improves over a set number of upcoming sessions. It turns raw attendance data into a clear roadmap for hitting your targets.

---

## Core Capabilities

### 01 — Goal Calculation

Your agent calculates the exact number of future sessions required to hit a target.

### 02 — Feasibility Checks

The AI determines if a specific attendance percentage is mathematically possible.

### 03 — Trend Projection

Your agent simulates how attendance ratios will climb over upcoming sessions.

### 04 — Status Retrieval

The AI pulls current attendance data for specific users.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/en/ai-agent-connect/attendance-days-needed](https://vinkius.com/en/ai-agent-connect/attendance-days-needed) — connect your AI agent in three steps.

- 01
- Connect the MCP to your preferred client like Claude or Cursor via Vinkius.
- 02
- Ask your agent for current attendance stats.
- 03
- Request a calculation for a specific attendance target.
- 04
- Verify if the target is possible using feasibility tools.
- 05
- Run a simulation to see the projected trend over time.

You connect the MCP to your AI client and start asking questions about attendance data.

## Built For

This MCP is built for anyone managing or tracking participation in structured programs.

### School Administrators

They hand off attendance data to the AI to check if students can meet requirements.

### Students

They use the AI to plan how many classes they must attend to fix their standing.

### Program Coordinators

They use the AI to project attendance trends for entire groups.

## What Changes When You Connect

- 01
- Removes manual math from attendance planning.
- 02
- Provides immediate confirmation on whether goals are reachable.

### 03 Visualizes attendance progression through trend simulations.

---

---

## Real-World Applications

### Meeting Minimum Requirements

A student uses the AI to find out how many classes they need to attend to stay above a 90% threshold.

### Academic Planning

An administrator checks if a student's attendance target is still possible after several absences.

### Trend Monitoring

A coordinator simulates the next 10 sessions to see how attendance ratios will shift.

### Real-time Status Checks

A user asks their AI client for their current attendance standing to prepare for a meeting.

---

---

## Patterns to Avoid

### Guessing attendance requirements

#### ❌ AVOID

You try to estimate how many classes you need to attend to hit a 90% goal by just looking at your current percentage.

#### ✓ INSTEAD

Use ``calculate_days_to_target`` to get the exact number of consecutive sessions required to reach your specific goal.

---

### Setting impossible attendance targets

#### ❌ AVOID

An administrator tells a student they can reach a 95% attendance rate even though they have already missed too many days.

#### ✓ INSTEAD

Run ``check_attendance_feasibility`` first to see if a target is mathematically possible based on existing history.

---

### Ignoring future attendance trends

#### ❌ AVOID

You assume your attendance ratio will stay the same without accounting for how upcoming sessions change the math.

#### ✓ INSTEAD

Use ``simulate_attendance_trend`` to see how your ratio actually shifts over a set number of future sessions.

## The Right Fit

Connect this MCP if you manage or participate in structured programs with strict attendance requirements. Do not connect it if you are tracking casual events where participation doesn't impact a formal standing or grade. The decision depends on whether you need to turn raw attendance numbers into a concrete plan of action.



# Attendance Days Needed: 4 Essential Tools

These tools handle the math for attendance tracking, from pulling current stats to simulating future trends.

| #  | TOOL                         | DESCRIPTION                                                                                                 |
|----|------------------------------|-------------------------------------------------------------------------------------------------------------|
| 01 | calculate_days_to_target     | This tool finds the specific number of consecutive future sessions you need to reach a set attendance goal. |
| 02 | check_attendance_feasibility | Use this to see if a target is actually possible based on your current session history.                     |
| 03 | get_current_stats            | This tool pulls your current attendance standing for a specific user.                                       |
| 04 | simulate_attendance_trend    | This tool projects how your attendance ratio will change over a series of upcoming sessions.                |

---

## See It in Action

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

**U** How many more sessions do I need to reach 90% attendance?



You need to attend 5 more consecutive sessions to reach a 90% attendance ratio.

**U** Is it possible for me to reach 95% attendance?



Yes, a 95% attendance target is achievable given your current session history.

**U** Show me the projected attendance trend for the next 10 sessions.



Over the next 10 sessions with perfect attendance, your attendance ratio will progress from 80% to 85.7%.

---

## Frequently Asked Questions

### 01 How does this MCP calculate future sessions?

It calculates the number of consecutive future sessions needed to reach a goal, assuming you attend every session perfectly.

### 02 Can I check if my attendance goal is realistic?

Yes, the tool includes a feasibility check that evaluates if a target is mathematically possible based on your history.

### 03 Which AI clients can I use with this MCP?

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

---

**04 Does this tool show how my attendance will change over time?**

Yes, you can use the simulation tool to project how your attendance ratio will progress over a specific number of upcoming sessions.

---

**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 you connect.

---

**06 How does the calculation handle future sessions?**

The calculation assumes perfect attendance for all future sessions to determine the minimum number of days required to reach the target.

---

**07 Can I check if my attendance goal is actually possible?**

Yes, you can use the `check\_attendance\_feasibility` tool to evaluate if a specific target percentage is achievable based on your current session history.

---

**08 What information is provided by the current stats tool?**

The `get\_current\_stats` tool returns your current attendance ratio, the number of sessions attended, and the total number of sessions held.

---

# 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                                                                                     |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|  <b>Claude AI</b>  | Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint                         |
|  <b>Cursor</b>     | Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint                |
|  <b>VS Code</b>  | Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"attendance-days-needed": {<br/>"url": "..." }</code> |
|  <b>Windsurf</b> | MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL                                       |
|  <b>ChatGPT</b>  | Settings → Tools & plugins → Add MCP server → Paste endpoint                                           |
|  <b>Gemini</b>   | 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

## Attendance Days Needed 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)

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Attendance Days Needed. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

|            |                                                   |
|------------|---------------------------------------------------|
| Generated  | September 2026                                    |
| MCP Server | Attendance Days Needed MCP                        |
| Server ID  | 01a0cb9b-ff9e-71a2-9c4b-9a1bf716f643              |
| Platform   | Vinkius Cloud for AI Agents                       |
| Endpoint   | <code>https://edge.vinkius.com/{token}/mcp</code> |

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit [vinkius.com/en/ai-agent-connect/attendance-days-needed](https://vinkius.com/en/ai-agent-connect/attendance-days-needed).