

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

Climbing Fall Tracker MCP

Turn fall data into actionable climbing safety insights.

Climbing Fall Tracker MCP lets you log every fall and analyze your safety trends directly through your AI client. Instead of guessing why you're slipping on certain grades, you can use this MCP to track fall frequency, assess session risks, and monitor how your technical skill evolves over time.

A+ Quality Score 100/100

climbing

safety

training

analytics

fitness-tracking



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.

Climbing Fall Tracker MCP

4 tools available

Cloud-hosted on Vinkius

Stop guessing why you're falling. This MCP gives you a structured way to log every slip, pump-out, or uncontrolled fall during your sessions. By feeding this data into your AI client, you move past simple logging and into actual performance analysis. You can see exactly which grades are pushing your limits too far and which sessions were statistically higher risk. It's a tool for climbers who want to treat their training like a science, using hard data to adjust their technique and improve their safety margins. Whether you're training for a specific project or just want to ensure your sessions stay within safe limits, this MCP provides the data backbone to make those decisions.

Core Capabilities

01 — Fall Logging

Your agent records specific fall details like grade and impact severity.

02 — Trend Analysis

The AI calculates how fall frequency changes as you move up the grades.

03 — Risk Assessment

Your agent reviews a session to identify dangerous fall patterns.

04 — Statistical Summaries

The AI aggregates fall data over days, months, or specific seasons.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/climbing-fall-tracker — connect your AI agent in three steps.

01 Connect the MCP to your client like Claude or Cursor via Vinkius.

02 Tell your agent about a fall you just had.

03 The agent uses the record tool to save the event.

04 Ask your agent to analyze your recent trends or session safety.

Setting up this MCP takes seconds and gives your AI client immediate access to your climbing data.

Built For

This is for serious climbers who want to quantify their progress and safety. It's built for anyone using an AI agent to manage their training data.

Competitive Climbers

They hand off fall frequency data to their agent to fine-tune training intensity.

Climbing Coaches

They use the session safety analysis to monitor athlete risk levels.

Data-Driven Hobbyists

They use the tool to track how their technical skill improves across different grades.

What Changes When You Connect

01 Identifies specific difficulty grades where you are most vulnerable.

02 Provides a mathematical look at session safety instead of relying on gut feeling.

- 03 Maintains a persistent history of all fall events for long-term review.
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Real-World Applications

Identifying Grade Ceilings

Use the grade analysis to see if you are consistently falling on a specific grade, indicating you're ready to push higher.

Training Progress Tracking

Compare fall summaries from different months to see if your controlled falls are increasing relative to uncontrolled ones.

Post-Session Review

Run a safety assessment after a heavy session to see if your fall patterns were within normal limits.

Safety Auditing

Review historical fall data to identify if certain types of falls are becoming more frequent over time.

Patterns to Avoid

Vague session logging

❌ AVOID

You tell your agent you fell a few times today but don't provide the grade or how hard the impact was.

✓ INSTEAD

Use ``record_fall`` to log specific details like grade and severity so your agent can actually build a useful dataset.

Ignoring grade ceilings

❌ AVOID

You keep trying the same hard routes and wonder why you aren't improving despite training hard.

✓ INSTEAD

Run ``get_falls_by_grade`` to see exactly where your technical limit sits and adjust your training accordingly.

Reactive safety checks

❌ AVOID

You wait until you're injured to look back at your training data to see what went wrong.

✓ INSTEAD

Use ``analyze_session_safety`` immediately after a heavy session to identify dangerous patterns before they lead to an accident.

The Right Fit

Connect this MCP if you want to treat climbing as a measurable discipline rather than a guessing game. If you just climb casually and don't care about technical progression or safety trends, you don't need this. The deciding factor is whether you want your AI agent to manage your training data for you.

Climbing Fall Tracker: 4 Specialized Data Tools

These tools handle everything from logging individual slip events to running deep statistical reviews of your climbing history.

#	TOOL	DESCRIPTION
01	analyze_session_safety	This tool evaluates the safety profile of a specific climbing session by looking at your fall patterns.
02	get_fall_summary	Use this to pull aggregated fall statistics for any specific time period you choose.
03	get_falls_by_grade	This tool analyzes how often you fall at specific difficulty levels to find your current ceiling.
04	record_fall	This tool logs a single fall event into your climbing history with details on type and severity.

See It in Action

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

U I just had an uncontrolled fall on a 5.10a route. It was a moderate impact. Please record it.



I have recorded that uncontrolled fall for the 5.10a grade with moderate severity.

U Give me a summary of all my falls from 2024-01-01 to 2024-01-31.



In January 2024, you had 12 total falls: 4 controlled and 8 uncontrolled, with an average severity score of 1.5.

U How many falls have I had on 5.12 routes?



You have recorded 3 falls on 5.12 routes: 1 controlled and 2 uncontrolled.

Frequently Asked Questions

01 How do I add a fall to my history?

You just tell your AI client about the fall, including the grade and how it happened, and it will use the record tool to save it.

02 Can I see how my falls relate to route difficulty?

Yes, you can ask your agent to show you falls broken down by grade to see where you struggle most.

03 What clients can I use this with?

This MCP works with any compatible client, including Claude, Cursor, and Windsurf.

04 Does this MCP host my data?

Vinkius hosts and manages the MCP, making it ready to use immediately once you connect your client.

05 Can I get a summary of a specific month?

Yes, you can ask your agent for a summary of falls for any specific date range.

06 How do I record a new fall?

You can use the `record\_fall` tool to log the fall type, the climbing grade, and the severity of the event.

07 Can I see a summary of my falls for the week?

Yes, use the `get\_fall\_summary` tool by providing a start and end date to see your total falls and average severity.

08 How is session safety determined?

The `analyze\_session\_safety` tool evaluates risk based on the density of falls and the prevalence of uncontrolled falls within a specific session.

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>"climbing-fall-tracker": { "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

Climbing Fall Tracker 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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