

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

Childcare Hours Total MCP

Track care hours and catch scheduling conflicts instantly.

Childcare Hours Total MCP handles the math and logic for your childcare scheduling data. It calculates unique care time, identifies overlapping sessions, and summarizes hours by provider. You can connect it to your AI client to turn messy scheduling logs into clear, actionable reports on care intensity and provider usage.

A+ Quality Score 100/100

childcare

scheduling

time-tracking

analytics

care-management



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.

Childcare Hours Total MCP

4 tools available

Cloud-hosted on Vinkius

Managing childcare schedules involves more than just looking at a calendar. You often deal with overlapping sessions, different providers, and the need to classify care as part-time or full-time for billing or planning. This MCP handles those calculations for you. Instead of manually adding up hours and checking for double-bookings, you let your AI agent do the heavy lifting. You can feed your raw scheduling data into your AI client and ask it to find conflicts or summarize how much time a child spends with a specific provider. It bridges the gap between your raw logs and the insights you need to manage care effectively. Whether you are checking if a schedule meets full-time requirements or trying to spot a booking error, this MCP provides the specific tools to get those answers without the manual math.

Core Capabilities

01 — Overlap Detection

Your agent uses this to find scheduling errors where two sessions happen at once.

02 — Unique Time Calculation

Your agent uses this to get the actual duration of care without double-counting overlapping times.

03 — Provider Summaries

Your agent uses this to group and total hours for each individual provider.

04 — Care Tier Classification

Your agent uses this to determine if a schedule qualifies as part-time or full-time.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/childcare-hours-total — connect your AI agent in three steps.

- 01
- Connect the MCP to your client like Claude or Cursor via Vinkius.
- 02
- Provide your childcare session data to your AI agent.
- 03
- Ask your agent to perform a specific task like finding overlaps or calculating totals.
- 04
- The agent uses the MCP tools to process the data and return the result.

Connecting this MCP to your AI client gives your agent immediate access to childcare data tools.

Built For

This MCP is built for anyone managing complex childcare schedules and needing quick data analysis.

Childcare Coordinators

They hand off messy scheduling logs to the AI to find conflicts and provider totals.

Parents and Guardians

They use it to verify total care hours and check if their schedule meets specific tier requirements.

Care Facility Managers

They use it to audit provider hours and ensure scheduling accuracy across their staff.

What Changes When You Connect

- 01
- Eliminates double-counting of hours during overlapping sessions.
- 02
- Identifies scheduling conflicts automatically.
- 03
- Categorizes care intensity based on total hours.

04 Provides instant breakdowns of hours per provider.

Real-World Applications

Conflict Checking

You can check a new list of sessions to see if any providers are accidentally booked for two places at once.

Tier Validation

Check if a child's current care hours qualify for full-time status for tax or subsidy purposes.

Billing Verification

Use the provider summaries to confirm exactly how many hours each person should be paid for.

Schedule Auditing

Run a total care hour calculation to ensure the actual time spent in care matches your expectations.

Patterns to Avoid

Manual Math Errors

❌ AVOID

You try to add up hours from a spreadsheet yourself and accidentally count a two-hour overlap twice.

✓ INSTEAD

Let your agent handle the math using ``calculate_total_care_hours`` to ensure you only count unique time.

Ignoring Booking Conflicts

❌ AVOID

You assume a provider is available because they aren't listed on the main calendar, but they are actually double-booked.

✓ INSTEAD

Run your session list through ``identify_overlap_conflicts`` to catch these errors before they cause issues.

Guessing Care Tiers

❌ AVOID

You estimate if a child qualifies for full-time subsidies based on a rough feeling about their schedule.

✓ INSTEAD

Use ``get_care_tier_status`` to get a definitive classification based on the actual recorded hours.

The Right Fit

Connect this MCP if you manage complex childcare schedules with multiple providers or overlapping sessions. Do not connect it if your scheduling is simple, linear, and requires no tier classification. The deciding factor is whether you need to automate the detection of overlaps and care intensity.

Childcare Hours Total: 4 Specialized Tools

These tools handle the math and logic for childcare scheduling. They turn raw logs into clean summaries and conflict reports.

#	TOOL	DESCRIPTION
01	summarize_care_by_provider	This tool aggregates total hours for every distinct childcare provider in your data. It gives you a clear breakdown of how much time is spent with each person or facility.
02	calculate_total_care_hours	This tool finds the total unique time a child was under care. It automatically accounts for overlapping sessions so you don't double-count time.
03	get_care_tier_status	This tool classifies care intensity, such as Part-time or Full-time, based on the total hours recorded.
04	identify_overlap_conflicts	This tool scans your list of sessions to detect if any childcare bookings overlap in time.

See It in Action

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

U Calculate the total unique care hours for these sessions in America/New_York: [{start: '2024-06-01T08:00:00', end: '2024-06-01T12:00:00'}, {start: '2024-06-01T10:00:00', end: '2024-06-01T14:00:00'}]



The total unique care hours provided is 6.0 hours.

U Are there any overlapping sessions in this list: [{id: '1', start: '2024-06-01T09:00:00', end: '2024-06-01T11:00:00'}, {id: '2', start: '2024-06-01T10:30:00', end: '2024-06-01T12:00:00'}]?



Yes, there is an overlap between session 1 and session 2.

U What is the care tier status for 45 total hours?



The care tier is Full-time.

Frequently Asked Questions

01 How does this MCP handle overlapping childcare sessions?

The calculate_total_care_hours tool specifically accounts for overlaps so that the total unique time is accurate and doesn't double-count the same hour.

02 Can I use this with Claude Desktop?

Yes, you can connect this MCP to Claude Desktop, Cursor, Windsurf, or any other MCP-compatible client.

03 What is a care tier?

A care tier is a classification, such as Part-time or Full-time, determined by the total number of hours a child is under care.

04 Does this MCP host the data?

No, you provide the scheduling data to your AI client, and the MCP provides the tools to process that data.

05 Can I see how many hours each provider worked?

Yes, the `summarize_care_by_provider` tool aggregates the total hours for each distinct provider in your data.

06 How does the tool handle overlapping childcare sessions?

The `calculate_total_care_hours` tool calculates the union of all time intervals. This ensures that if two sessions overlap, the overlapping period is only counted once toward the total hours.

07 What are the care tiers?

Care tiers (such as Part-time or Full-time) are determined by the total hours provided, which can be checked using the `get_care_tier_status` tool.

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>"childcare-hours-total": { "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

Childcare Hours Total 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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