

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

Family Errand Route Planner MCP

Turn chaotic errands into a single, logical itinerary.

Family Errand Route Planner MCP manages the logistics of your family's day. It syncs errand locations, store hours, fixed appointments, and even how much weight you can physically carry in your car. Your AI client uses these constraints to build a plan that actually works in the real world.

A+ Quality Score 100/100

routing

scheduling

optimization

family-planning

logistics



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.

Family Errand Route Planner MCP

4 tools available

Cloud-hosted on Vinkius

Managing a family schedule is a constant battle against time and physical limits. This MCP acts as a specialized routing engine that accounts for the variables most maps ignore. It doesn't just look at distance; it looks at your children's fixed schedules, the operating hours of the stores you need to visit, and the total weight of the items you're picking up.

You can use it to build a complete, sequential itinerary that respects every constraint, or simply check if a new task will break your existing timeline. If a store is closed when you arrive, the MCP can identify fallback options so you don't waste a trip. It's a way to offload the mental math of logistics to your AI client, ensuring you don't overpack the car or miss a school pickup while stuck in traffic.

Core Capabilities

01 — Constraint-Based Routing

Your agent builds routes that respect store hours and fixed appointments.

02 — Weight Management

The AI tracks the physical weight of items to ensure you don't exceed your carrying capacity.

03 — Schedule Validation

Your client checks if new tasks conflict with existing commitments like school pickups.

04 — Contingency Planning

The MCP identifies alternative tasks if a planned location is closed.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/family-errand-route-planner — connect your AI agent in three steps.

- 01 Connect the MCP to Claude, Cursor, or Windsurf via Vinkius.
- 02 Provide your list of errands, weights, and fixed schedule times to your AI client.
- 03 Ask the agent to generate an optimized plan or validate a specific task.
- 04 Receive a sequenced itinerary or a feasibility report immediately.

Connect the MCP to your client and start feeding it your constraints.

Built For

This is for anyone managing complex household logistics and tight daily schedules.

Parents

Hand off the mental load of coordinating school runs, groceries, and appointments to your agent.

Household Managers

Use the MCP to verify if new errands fit into a pre-planned daily routine.

Logistics Coordinators

Leverage the weight and time impact tools to plan efficient multi-stop trips.

What Changes When You Connect

- 01 Prevents schedule overlaps by checking errand durations against fixed appointments.
- 02 Avoids overpacking by tracking the weight of items against your vehicle capacity.

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- | | |
|-----------|--|
| 03 | Reduces wasted trips by identifying fallback locations when stores are closed. |
| <hr/> | |
| 04 | Automates the sequencing of multiple stops into a single logical path. |
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Real-World Applications

The Saturday Errand Run

Organize a list of grocery, pharmacy, and post office stops into a single timed itinerary.

Last Minute Additions

Check if a quick stop at the dry cleaners will make you late for a scheduled school pickup.

Heavy Load Planning

Ensure your car can handle the combined weight of all items you plan to pick up during a trip.

Closed Store Contingencies

Find a different task to complete if you arrive at a store and find it is already closed.

Patterns to Avoid

Ignoring physical weight limits

❌ AVOID

You plan a massive grocery haul and three heavy hardware store pickups without checking if your car can actually carry it all.

✓ INSTEAD

Use ``calculate_travel_impact`` to see how the weight of your items affects your trip before you leave the house.

Assuming every store is open

❌ AVOID

You drive thirty minutes to a pharmacy only to find it closed for the evening.

✓ INSTEAD

Run ``identify_fallbacks`` to find a different task you can finish instead of wasting the trip.

Adding errands blindly

❌ AVOID

You decide to stop at the dry cleaners on the way home without checking if it makes you late for school pickup.

✓ INSTEAD

Run ``validate_errand_feasibility`` to confirm the new stop won't break your existing schedule.

The Right Fit

Connect this MCP if you manage a household with tight schedules and multiple moving parts. Don't connect it if you only run one errand at a time. The deciding factor is whether your daily logistics involve conflicting time constraints or physical weight limits.

4 Tools for Managing Family Logistics and Errands

These tools handle the math of travel time, weight limits, and schedule conflicts so you don't have to.

#	TOOL	DESCRIPTION
01	calculate_travel_impact	This tool calculates the time cost and weight impact of moving between two specific locations.
02	get_optimized_plan	This tool generates a full, sequential itinerary for a family outing based on all your specific constraints.
03	identify_fallbacks	This tool finds secondary tasks you can swap in if a primary location is closed or unavailable.
04	validate_errand_feasibility	This tool checks if a single new errand can actually fit into your current schedule without causing conflicts.

See It in Action

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

- U** Generate an optimized plan for 3 errands: Grocery (weight 10), Pharmacy (weight 2), and Post Office (weight 1), with a carrying capacity of 15 and driving as the mode.



Your optimized plan is: 1. Grocery (09:00-09:30, Owner: Mom, Items: Milk, Bread), 2. Pharmacy (09:45-10:00, Owner: Mom, Items: Vitamins), 3. Post Office (10:15-10:30, Owner: Dad, Items: Package).

- U** Is it possible to add a doctor's appointment at 14:00 if I have a school pickup at 14:30?



No, the doctor's appointment is not possible because its duration overlaps with the fixed school pickup schedule.

- U** Calculate the travel impact between the Grocery store and the Pharmacy using cycling.



The travel time is 12 minutes and the weight impact is 0.

Frequently Asked Questions

01 How does this MCP handle weight limits?

It tracks the weight of each errand item and compares the total against your specified carrying capacity to ensure you don't exceed it.

02 Can it account for school pickups or doctor appointments?

Yes, you can provide fixed schedule items, and the MCP will ensure errands are planned around those non-negotiable times.

03 What happens if a store is closed?

The MCP includes a tool to identify fallback tasks that can be swapped into your plan if a primary location is unavailable.

04 Which AI clients can I use with this?

You can use this MCP with any compatible client like Claude, Cursor, or Windsurf.

05 Do I need to host this myself?

No, Vinkius hosts and manages the MCP for you, so it is ready to use as soon as you connect it.

06 How does the tool handle weight limits?

The ``get_optimized_plan`` tool ensures that the cumulative weight of items carried does not exceed your specified carrying capacity between any two locations.

07 Can I check if a specific errand is possible?

Yes, you can use ``validate_errand_feasibility`` to check if a task fits within your existing schedule and the location's opening hours.

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>"family-errand-route-planner": { "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

Family Errand Route Planner 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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DOCUMENT INFORMATION

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Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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