

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

Hiking Snack Planner MCP

Keep your energy levels steady on every trail.

Hiking Snack Planner MCP calculates your exact food requirements based on hike duration and your personal eating habits. It helps you verify if your current supplies are enough for the distance ahead and runs safety checks to ensure you have a sufficient buffer for unexpected delays.

A+ Quality Score 100/100

hiking

nutrition

planning

safety

energy



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.

Hiking Snack Planner MCP

4 tools available

Cloud-hosted on Vinkius

Running out of food on a trail is a safety issue, not just an inconvenience. This MCP handles the math so you don't have to. You can tell your AI client how long you plan to be out and how much you typically eat per hour, and it will tell you exactly how many snacks to pack. It goes beyond simple multiplication by allowing you to check your current inventory against your planned route. If you are worried about a long day, the MCP can run a safety validation that includes a buffer margin. This ensures you aren't just carrying enough for the planned time, but enough to handle a detour or a slower pace. It turns your AI agent into a reliable trip planner that focuses on your physical readiness and nutrition.

Core Capabilities

01 — Requirement Calculation

Your agent calculates total snack counts based on time and consumption rates.

02 — Inventory Comparison

The AI checks your current supplies against the needs of a specific trip.

03 — Safety Validation

Your client verifies if your plan includes enough food to cover unexpected delays.

04 — Stock Summaries

The MCP provides a status report of your snacks relative to standard hiking profiles.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/hiking-snack-planner — connect your AI agent in three steps.

- 01
- Connect the MCP to your preferred client like Claude or Cursor via Vinkius.
- 02
- Tell your agent your planned hike duration and eating rate.
- 03
- Ask the agent to check your current inventory against that plan.
- 04
- Use the validation tool to confirm your plan is safe with a buffer.

Connect the MCP to your AI client and start asking about your snack needs.

Built For

This is for outdoor enthusiasts who want to automate their trip preparation and nutrition planning.

Hikers

Use the MCP to ensure they never run out of energy on a trail.

Trip Planners

Hand off the math of food requirements to an AI agent.

Backpackers

Use the safety validation tools to confirm supply sufficiency before leaving home.

What Changes When You Connect

- 01
- Prevents energy crashes by calculating precise snack counts.
- 02
- Reduces planning errors by comparing inventory to trip requirements.
- 03
- Adds a safety margin to account for unexpected trail delays.

04 Simplifies nutrition math through direct AI interaction.

Real-World Applications

Pre-Trip Packing

Determine exactly how many items to put in your pack before you leave the house.

Inventory Audits

Check if your current snack stash is enough for a planned weekend excursion.

Safety Verification

Run a validation check to ensure you have a buffer for longer than expected hikes.

Standardized Planning

Compare your current supplies against a standard hike profile to see where you stand.

Patterns to Avoid

Guessing your food needs

❌ AVOID

You tell your agent you're going for a long hike and hope you packed enough granola bars.

✓ INSTEAD

Use ``get_snack_requirement`` to calculate the exact number of snacks needed based on your specific time and consumption rate.

Ignoring potential delays

❌ AVOID

You pack just enough food for a four hour walk and head out without a backup plan.

✓ INSTEAD

Run ``validate_hike_plan`` to ensure you have a safety buffer for unexpected trail delays or slower paces.

Assuming your pantry is ready

❌ AVOID

You assume you have enough snacks in the cupboard without actually checking your current stock.

✓ INSTEAD

Use ``check_snack_sufficiency`` to compare what you actually have in your bag against your trip requirements.

The Right Fit

Connect this MCP if you want to automate nutrition math and safety margins for outdoor trips. Do not connect it if you prefer manual calorie counting or don't care about food buffers. The decision rests on whether you want your AI agent to handle the physical readiness math for you.

Hiking Snack Planner: 4 Specialized Planning Tools

These tools handle the math for your nutrition needs and verify your supplies against planned routes.

#	TOOL	DESCRIPTION
01	check_snack_sufficiency	Compares what you have in your bag against what you actually need for a specific trip.
02	get_snack_inventory_status	Provides a quick summary of your current snack stock compared to a standard hike profile.
03	get_snack_requirement	Calculates the total number of snacks you need to pack for a planned hike.
04	validate_hike_plan	Runs a safety check to confirm your snack supply is sufficient for the planned route.

See It in Action

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

U How many snacks do I need for a 3 hour hike if I eat 2 snacks per hour?



You will need 6 snacks for your 3-hour hike.

U I have 10 snacks. Is this enough for a 4 hour hike at 2 snacks per hour with a 20% buffer?



No, you need 10 snacks total including the buffer, but since you have 10, you have exactly enough to proceed safely.

U What is my current snack inventory status?



Your current snack status is Adequate.

Frequently Asked Questions

01 How does the MCP calculate snack needs?

It uses your planned hike duration and your personal consumption rate to determine the total number of snacks required.

02 Can I use this with Claude or Cursor?

Yes, you can connect this MCP to any MCP-compatible client including Claude, Cursor, and Windsurf.

03 Does it account for unexpected delays?

Yes, the `validate_hike_plan` tool includes a buffer margin to ensure you have enough food for unexpected delays.

04 How do I check if my current snacks are enough?

You can use the `check_snack_sufficiency` tool to compare your current inventory against the requirements of your trip.

05 Is there a way to see my general snack status?

The `get_snack_inventory_status` tool provides a summary of your stock relative to a standard hike profile.

06 How do I calculate how many snacks I need for a 5-hour hike?

You can use the `get_snack_requirement` tool. Provide the hike duration (5 hours) and your snacks per hour rate to get the total count.

07 Can I add a safety buffer to my snack calculation?

Yes, when using `get_snack_requirement` or `validate_hike_plan`, you can provide a `bufferPercentage` to increase your total snack count for extra safety.

08 How do I know if my current snack supply is enough for my planned trip?

Use the `validate_hike_plan` tool. It checks your duration, consumption rate, and current inventory to tell you if you can safely proceed.

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>"hiking-snack-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

Hiking Snack 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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Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

LICENSE & USAGE

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