

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 Recipe Cost Calendar MCP

Turn your weekly meal plans into precise financial tracking.

Family Recipe Cost Calendar MCP connects your meal planning directly to your grocery budget. Your AI client uses this tool to reconcile recipe ingredients against package prices and leftover credits, giving you exact costs for every meal, a ready-to-go shopping list, and a way to track how much food you actually use.

A+ Quality Score 100/100

meal-planning

budgeting

grocery-list

recipe-costing

waste-reduction



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 Recipe Cost Calendar MCP

4 tools available

Cloud-hosted on Vinkius

Stop guessing how much your groceries will cost each week. This MCP bridges the gap between your recipe ideas and your actual bank account. Instead of just listing what you want to eat, you can now have your AI client calculate the exact price of a meal by looking at package costs and what you already have in the pantry.

You can use it to see a high-level view of your upcoming week or drill down into the specific cost of a single Tuesday dinner. It also handles the heavy lifting of grocery prep by generating a shopping list based on the specific packages you need to buy. To help you save money, the MCP analyzes how well you're using your ingredients, helping you pick recipes that minimize waste and make sure nothing sits in the fridge until it spoils. It's a practical way to keep your food budget under control without manual math.

Core Capabilities

01 — Daily Costing

Your agent calculates the price of a specific meal for a specific day.

02 — Weekly Summaries

Your agent provides a total cost overview for your entire planned schedule.

03 — Smart Shopping Lists

Your agent generates a list of the exact items you need to purchase.

04 — Waste Reduction

Your agent evaluates ingredient usage to help you avoid buying things you won't use.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/family-recipe-cost-calendar — connect your AI agent in three steps.

- 01 Connect the MCP to your preferred client like Claude or Cursor.
- 02 Tell your AI client your meal plan or recipe ideas.
- 03 Ask the agent to calculate costs or generate a shopping list.
- 04 Review the financial summary or the list of items to buy.

Connect the MCP to your AI client and start planning.

Built For

This is for anyone managing a household budget through meal planning.

Household Managers

They hand off meal scheduling and budget tracking to their AI client.

Budget-Conscious Cooks

They use the AI to ensure recipe choices stay within a specific weekly spending limit.

Zero-Waste Enthusiasts

They rely on the AI to analyze ingredient efficiency and reduce food spoilage.

What Changes When You Connect

- 01 Reconciles recipe needs against package prices for accurate math.
- 02 Generates shopping lists based on actual required purchases.
- 03 Tracks ingredient usage to minimize food waste.
- 04 Provides per-person cost breakdowns for every meal.

Real-World Applications

Weekly Budgeting

You can see your total projected grocery spend before you even leave the house.

Meal Cost Comparison

Compare the cost of a homemade dinner against your usual takeout spending.

Inventory Management

Use leftover credits to see how much you can save by using what you already have.

Grocery List Prep

Get a precise list of items to buy so you don't overspend at the store.

Patterns to Avoid

Guessing grocery totals

❌ AVOID

You tell your agent you want to eat pasta this week and assume it will be cheap without checking package prices.

✓ INSTEAD

Use `calculate_daily_meal_cost` to get the actual price for that specific meal based on real package costs.

Ignoring pantry stock

❌ AVOID

You add a recipe to your plan that requires heavy ingredients you already have sitting in your cupboard.

✓ INSTEAD

Run `analyze_leftover_efficiency` to see how well your plan uses what you already own to avoid unnecessary spending.

Vague weekly planning

❌ AVOID

You try to estimate your weekly budget by looking at individual meals one by one without a total view.

✓ INSTEAD

Use `get_meal_plan_summary` to see your entire scheduled spending in one clear overview.

The Right Fit

Connect this MCP if you manage a household budget and want to stop overspending at the grocery store. Do not connect it if you don't care about food waste or if you prefer manual math over automated calculations. The decision depends on whether you want your meal plan to drive your spending instead of your spending driving your meal plan.



Family Recipe Cost Calendar 4 Tools

These tools handle the math between your meal ideas and your actual grocery receipts. They bridge the gap between planning a menu and managing a real budget.

#	TOOL	DESCRIPTION
01	calculate_daily_meal_cost	This tool finds the specific price for a single meal on a chosen day.
02	get_meal_plan_summary	This tool provides a high-level overview of your scheduled meals and total projected spending.
03	get_shopping_list_and_cost	This tool identifies the exact food packages you need to buy to complete your plan.
04	analyze_leftover_efficiency	This tool checks how well your plan uses purchased ingredients to help you reduce food waste.

See It in Action

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

U Give me a summary of my meal plan from 2024-05-01 to 2024-05-07.



Your meal plan summary for May 1st to May 7th shows a total shopping subtotal of \$85.50 and an average cost per person of \$4.25. The daily breakdown includes Monday's Spaghetti at \$12.00 and Tuesday's Tacos at \$15.00.

U How much will the meal on 2024-05-03 cost?



The meal planned for 2024-05-03 is Chicken Curry, which will cost \$18.50 for 4 servings, resulting in \$4.63 per person.

U What is my shopping list for the period 2024-05-01 to 2024-05-07?



To complete your plan, you need to buy: 1x Pasta (2.00), 1x Tomato Sauce (3.50), and 1x Chicken Breast (12.00). The final subtotal after discounts is \$15.50.

Frequently Asked Questions

01 How does this MCP calculate meal costs?

It reconciles the specific ingredients required by your recipes against the prices of the food packages you need to buy.

02 Can I use this with Claude or Cursor?

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

03 Does it help with reducing food waste?

Yes, the analyze_leftover_efficiency tool evaluates how well your plan uses purchased ingredients to minimize waste.

04 Will it give me a shopping list?

Yes, the get_shopping_list_and_cost tool identifies exactly which packages you need to purchase to fulfill your plan.

05 Can I see how much I'm spending per person?

Yes, the agent can provide a breakdown of the cost per serving for your planned meals.

06 How does the tool handle ingredient leftovers?

The tool uses leftover credit to reduce the cost of future meals. If a package contains more than a recipe requires, the unused portion is credited to the next meal using that same ingredient.

07 Can I see my total shopping cost for the week?

Yes, you can use 'get_shopping_list_and_cost' to see exactly which packages you need to buy and the final subtotal after discounts.

08 How is the cost per person calculated?

The cost per person is the daily meal cost divided by the number of people eating that specific meal.

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-recipe-cost-calendar": { "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 Recipe Cost Calendar 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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