

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

Recipe Leftover Transformer MCP

Stop throwing away food and start cooking with what you have.

Recipe Leftover Transformer connects your current kitchen inventory to a smart recipe engine. It tracks what you have, monitors expiration dates, and suggests meals to prevent waste. You can use it within any MCP-compatible client to turn random ingredients into planned meals, reducing both your grocery bill and food waste.

A+ Quality Score 100/100

recipes

food-waste

inventory

cooking-assistant

meal-planning



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.

Recipe Leftover Transformer MCP

4 tools available

Cloud-hosted on Vinkius

You have a fridge full of ingredients that are about to expire, and you aren't sure what to do with them. This MCP changes that by linking your inventory directly to your AI client. Instead of staring at a half-empty pantry, you can ask your agent to look at your leftovers and find a way to use them up. It handles the heavy lifting of checking what's fresh and what's running out. You can prioritize ingredients that need to be eaten immediately to stop food from going bad. It also helps you keep an eye on your spending by calculating how much a specific meal will cost you based on your current stock. It's a practical way to manage your kitchen through your favorite AI tools.

Core Capabilities

01 — Inventory Matching

Your agent uses this to find recipes that match your current food supply.

02 — Waste Prevention

The AI uses this to pick recipes that prioritize ingredients nearing their expiration.

03 — Cost Tracking

Your agent calculates the price of a recipe to help you manage your food budget.

04 — Freshness Monitoring

The AI checks your inventory to see if specific items are still safe to eat.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/recipe-leftover-transformer — connect your AI agent in three steps.

- 01
- Connect the MCP to your preferred AI client via Vinkius.
- 02
- Provide your current kitchen inventory and expiration dates to your agent.
- 03
- Ask your agent to find recipes or check ingredient status.
- 04
- Receive specific meal suggestions or cost breakdowns directly in your chat.

Getting started takes just a few steps to connect your kitchen data to your AI.

Built For

This MCP is built for anyone looking to manage their kitchen more efficiently through an AI interface.

Home Cooks

People who want to reduce food waste and save money on groceries.

Meal Planners

Users who want to automate the process of matching ingredients to recipes.

Budget Conscious Households

Individuals who use AI to track the cost of their meals and inventory.

What Changes When You Connect

- 01
- Reduces food waste by prioritizing expiring ingredients.
- 02
- Lowers grocery costs by maximizing the use of existing inventory.
- 03
- Simplifies meal decisions by matching leftovers to recipes.

04 Provides clear visibility into ingredient freshness.

Real-World Applications

End of Week Cleanup

Use the MCP to find a meal that uses up all the random items left in your fridge before your next grocery run.

Expiration Management

Identify which ingredients need to be used immediately to prevent them from spoiling.

Budget Meal Planning

Calculate the cost of a recipe to ensure you stay within your weekly food budget.

Inventory Auditing

Ask your agent to check if specific items are still fresh before you start cooking.

Patterns to Avoid

Ignoring expiration dates

❌ AVOID

You ask your agent for a recipe using chicken, ignoring the fact that the chicken expires tomorrow.

✓ INSTEAD

Use `optimize_waste_reduction` to find meals that prioritize ingredients about to go bad.

Blind grocery shopping

❌ AVOID

You head to the store to buy ingredients for a new meal without checking what you already have.

✓ INSTEAD

Run `check_ingredient_availability` first to see if you can skip certain items or if they are still fresh.

Ignoring meal costs

❌ AVOID

You pick a random recipe without knowing if it fits your weekly grocery budget.

✓ INSTEAD

Use `calculate_recipe_cost` to see exactly how much a meal will cost based on your current stock.

The Right Fit

Connect this MCP if you want to stop throwing away food and want your AI to manage your pantry. Do not connect it if you prefer manual meal planning or don't track your kitchen inventory digitally. The decision depends on whether you want your agent to handle the math of food waste and cost.



Recipe Leftover Transformer Tools

These tools give your agent direct control over your kitchen inventory and meal planning logic.

#	TOOL	DESCRIPTION
01	check_ingredient_availability	This tool verifies if you have a specific ingredient in your inventory. It also checks how fresh that item is.
02	find_recipes_by_leftovers	This tool identifies meals you can cook using only the leftovers you currently have on hand.
03	calculate_recipe_cost	This tool calculates the total cost of preparing a specific recipe. It helps you see the financial impact of your meal choices.
04	optimize_waste_reduction	This tool suggests the best recipes to cook based on which ingredients are closest to their expiration dates.

See It in Action

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

U What can I cook with my leftovers: 2 eggs, 100g flour, and 50ml milk?



You can make simple pancakes with your eggs, flour, and milk.

U Which recipe should I make to use up my milk before it expires tomorrow?



The best recipe to use your milk is Creamy Oatmeal.

U Is my spinach still fresh?



Yes, your spinach is available and has 3 days until it expires.

Frequently Asked Questions

01 How does this MCP help reduce food waste?

It analyzes your inventory and expiration dates to suggest recipes that use up ingredients before they spoil.

02 Can I use this with Claude or Cursor?

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

03 Does it help with grocery budgeting?

Yes, it includes a tool to calculate the financial impact and cost of preparing specific recipes.

04 How do I know if my food is still good?

The MCP can check the freshness and availability of specific ingredients in your inventory.

05 Do I need to host this myself?

No, Vinkius hosts and manages the MCP for you, so it is ready to use immediately after connection.

06 How does the tool handle ingredients that are about to expire?

You can use ``optimize_waste_reduction`` to find recipes that specifically use ingredients with the closest expiry dates, helping you reduce food waste.

07 Can I adjust the number of servings for a recipe?

Yes, when using ``find_recipes_by_leftovers`` or ``calculate_recipe_cost``, you can provide a target number of servings to scale the ingredient quantities automatically.

08 How much will it cost to make a recipe?

The ``calculate_recipe_cost`` tool provides a summary of the additional purchase cost for any ingredients you don't currently have in your leftovers.

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>"recipe-leftover-transformer": { "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

Recipe Leftover Transformer 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	<code>https://edge.vinkius.com/{token}/mcp</code>

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