MCP SERVER | NO CODE | CLOUD HOSTED

Recipe Scaler MCP

Perfectly scale recipes, every time.

Recipe Scaler instantly adjusts ingredient quantities for any number of servings. This MCP handles complex culinary math, ensuring proportions stay perfect while formatting measurements into usable kitchen units like '1 tbsp + 1 tsp'. Stop working with messy decimals and start cooking with accuracy.

A+ Quality Score 100/100

recipe | scaling | culinary | precision | kitchen | ingredients

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vinkius.com/mcp/recipe-scaler

SCAN TO VIEW

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.

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.

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.

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	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	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.

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.

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.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken 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.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

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 Scaler MCP

3 tools available
Cloud-hosted on Vinkius

Baking or meal prep often means adjusting recipes on the fly. The Recipe Scaler connects your agent to a precision ingredient scaling engine built for kitchens. When you change the number of servings, this MCP ensures every proportion stays perfect. It handles all the difficult math behind recipe adjustment—from calculating massive changes in flour weight to figuring out how much sugar is needed if you go from two people to ten. The process automatically determines appropriate rounding increments for different units, making sure your measurements are accurate and practical for real-world cooking. Finally, it converts those raw decimal numbers into clear instructions, like '1 cup minus 2 teaspoons,' so you don't have to guess what that number means in the kitchen. You can trust this MCP to maintain the integrity of every recipe, giving you dependable results right from your Vinkius catalog connection.

Core Capabilities

01 — Scale recipes by servings

Adjusts all ingredient quantities correctly when changing the total number of people a recipe feeds.

02 — Determine unit precision

Calculates the correct rounding increments for specific units (mass, volume) to keep measurements practical.

03 — Format cooking measurements

Converts raw decimal numbers into clear, human-readable kitchen instructions.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/recipe-scaler** — connect your AI agent in three steps.

01 You provide the original recipe ingredients and specify the new number of servings you need.

02 The MCP engine first determines the correct rounding for each unit, then uses that data to scale all ingredient quantities proportionally.

03 Finally, it formats these scaled numbers into easy-to-measure culinary instructions, ready for your use.

The bottom line is: you input a recipe and a serving change; the system outputs perfectly measured, usable ingredients.

Built For

This MCP is essential for professional bakers, menu developers, culinary researchers, or anyone who needs to adjust recipes reliably in bulk. If your job involves scaling food items and you're tired of messy decimal calculations, this tool saves hours.

Professional Baker

Uses the MCP when adapting a small-batch recipe for a large catering order, ensuring the final product tastes exactly like the original.

Menu Developer

Scales recipes quickly when updating seasonal menus that require different portion sizes across multiple dishes.

Food Scientist / Researcher

Needs to adjust ingredient proportions for controlled testing, maintaining precise ratios regardless of the serving size change.

What Changes When You Connect

01 Stop guessing measurements. The system handles complex math so you don't end up with unusable decimals or fractions that are hard to measure accurately.

02 Maintain perfect proportions across huge batch sizes. Using the `scale_ingredients` tool, changing a recipe from 2 servings to 50 doesn't compromise flavor or structure.

03 Get crystal-clear instructions immediately. Instead of '1.37 tbsp,' you get readable directions like '1 tbsp + 1 tsp' thanks to unit formatting.

04 The system automatically handles precision using `resolve_measurement_precision`. It knows when to round and how, preventing mathematical errors that ruin a batch.

05 Save time in the kitchen. You eliminate the manual step of checking multiple conversion charts or doing complex mental math while you prep.

Real-World Applications

Scaling for an event menu

A catering manager needs to scale a signature bread dough recipe from 10 servings up to 300. They ask their agent to run the `scale_ingredients` tool, which returns all necessary ingredient weights and volumes perfectly scaled, saving hours of manual calculation.

Adjusting for dietary constraints

A baker needs to adapt a gluten-free recipe originally designed for 4 people down to just 1. They run the scaling tool, which not only reduces all ingredients but also ensures the measurements are easy enough to measure in a home kitchen.

Standardizing test batches

A food scientist must run a consistency trial on a sauce recipe that needs to be exactly 10x the original size. The MCP calculates the exact ingredient weights, ensuring the ratios are mathematically perfect for testing.

Converting bulk ingredients

You have raw measurements and need them converted into precise volume units. You ask your agent to run `format_culinary_units` on a decimal value (like 0.75 tbsp), getting back '2.25 teaspoons' instantly.

Patterns to Avoid

Using basic calculators

✗ AVOID

Multiplying 1.5 tablespoons by 8 servings gives you 12 tablespoons, which is mathematically correct but useless for actual cooking measurements.

✓ INSTEAD

Use the Recipe Scaler MCP and its `scale_ingredients` tool. The system will give you a practical answer like '3/4 cup' or '1/2 cup plus 2 tbsp', making it instantly usable.

Manually rounding numbers

✗ AVOID

If you calculate an ingredient needs to be 0.678 grams, and you just round it to 0.7g, your recipe's final texture will be off.

✓ INSTEAD

Let the MCP run `resolve_measurement_precision`. It determines the correct rounding for that specific unit (mass or volume), guaranteeing accuracy every time.

Copying raw data from a source

✗ AVOID

Pasting a list of ingredients with decimal measurements like '2.37 tbsp' and having to guess how to measure it in the kitchen.

✓ INSTEAD

Run the MCP's formatting tool. It converts that messy decimal into clear, actionable instructions like '1 tbsp + 2 tsp', so you know exactly what to grab from your measuring set.

The Right Fit

Use this MCP if your problem is about mathematical accuracy and physical measurability when scaling recipes. Specifically, if you need to scale ingredients based on a serving size change, or if you are dealing with raw decimal measurements that don't translate easily into common kitchen units (like cups, teaspoons, etc.). Don't use it if you just need simple unit conversions; for instance, converting grams to ounces without scaling. In those cases, a dedicated weight conversion tool would be better. This MCP is about maintaining culinary integrity through complex calculations and formatting.

The pain of the messy decimal

When you scale recipes by hand, things get sloppy fast. You might calculate that a recipe calls for 2.45 tablespoons of vanilla extract. What does '0.45' mean? Do you use a tiny spoon? Do you measure it in milliliters and then convert again? It forces you to stop cooking and start doing math.

With this MCP, the process is simple. You tell your agent the desired servings change. The system calculates everything needed, and more importantly, it uses `format_culinary_units` to rewrite those numbers into clear, usable instructions like '2 tablespoons plus 1 teaspoon.' It keeps you in the flow.

Get Perfect Measurements with Recipe Scaler

No more guessing what that decimal means. The MCP automatically handles determining the right rounding for every unit using `resolve_measurement_precision`, ensuring your math is sound before it even gets to the measurement step.

The result is absolute confidence in your recipe proportions. You just get perfect, actionable ingredients lists without ever touching a spreadsheet or worrying about fractions.

Recipe Scaler: 3 Tools Available

These tools allow you to scale recipes, resolve measurement precision, and format raw numbers into actionable culinary instructions.

#	TOOL	DESCRIPTION
01	`format_culinary_units`	Converts raw decimal quantities into simple strings that are easy to measure in a kitchen setting.
02	`resolve_measurement_precision`	Calculates the necessary rounding increment for any specific unit, like grams or fluid ounces.
03	`scale_ingredients`	Adjusts every ingredient in a recipe accurately based on changes to the serving size.

See It in Action

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

U Scale this recipe for 10 people: 2 servings, ingredients: [{name: 'flour', quantity: 500, unit: 'g'}, {name: 'sugar', quantity: 1, unit: 'cup'}]

Scaled ingredients for 10 servings: [{name: 'flour', quantity: 2500, unit: 'g'}, {name: 'sugar', quantity: 5, unit: 'cup'}]

U How much sugar do I need if I scale a recipe from 2 to 3 servings, where the original amount was 1.5 tablespoons?

You will need 2.25 tablespoons of sugar.

U Convert 0.75 tablespoons to a more practical measurement.

0.75 tablespoons is equivalent to 2.25 teaspoons.

Frequently Asked Questions

01 **How does Recipe Scaler handle ingredient scaling?**

It uses the `scale_ingredients` tool to adjust every item in your list proportionally. You simply tell it the original recipe and the new number of servings, and it recalculates everything automatically.

02 **What if my unit is grams? Does Recipe Scaler work with mass?**

Yes, it does. The MCP uses `resolve_measurement_precision` to make sure that even weight measurements are rounded correctly and remain practical for kitchen use.

03 **Can I convert a decimal measure using the Recipe Scaler MCP?**

Absolutely. If you have a raw number like 0.75 tablespoons, the formatting tool converts it into simple measures like '2 teaspoons,' making it ready to use.

04 **Does the Recipe Scaler need original serving info?**

Yes, providing the starting serving count helps the MCP calculate ratios correctly. It ensures that when you scale up or down, the proportions stay intact and consistent with your initial recipe design.

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 `"recipe-scaler": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → 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 Scaler 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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