

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

Cafe Break-Even Planner MCP

Find your daily revenue targets and product margins instantly.

Cafe Break-Even Planner MCP gives your AI client the math needed to manage cafe profitability. It calculates the exact daily revenue and unit volume you need to cover fixed costs, variable ingredient costs, and your specific sales mix. Use it to find high-margin items or predict how menu changes affect your bottom line.

A+ Quality Score 100/100

cafe

break-even

profitability

sales-mix

financial-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.

Cafe Break-Even Planner MCP

4 tools available

Cloud-hosted on Vinkius

Running a cafe means balancing thin margins against fluctuating ingredient costs and daily foot traffic. This MCP handles the heavy lifting of your financial modeling. Instead of manually calculating how many lattes you need to sell to pay the rent, you can ask your AI client to run the numbers for you. It looks at your fixed costs, the cost of your ingredients, and how your customers actually buy. You can test different scenarios, like what happens if you sell more pastries instead of coffee, or how much your sales can drop before you start losing money. It turns your menu and your expenses into actionable daily targets.

Core Capabilities

01 — Daily Target Setting

Your AI client uses this to determine the exact revenue needed to cover daily operating costs.

02 — Margin Analysis

The AI calculates the specific profit contribution of individual menu items.

03 — Scenario Modeling

Your agent simulates how shifts in what customers buy change your break-even requirements.

04 — Risk Assessment

The AI calculates your margin of safety to show how much sales can drop before you hit zero profit.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/cafe-break-even-planner — connect your AI agent in three steps.

- 01 Connect your preferred AI client to the Vinkius catalog.
- 02 Provide your fixed costs, ingredient costs, and sales prices to your AI client.
- 03 Ask your AI client to run specific calculations like break-even or profitability analysis.
- 04 Receive immediate, precise financial targets and margin data.

Connect your AI client to Vinkius and start running financial models immediately.

Built For

This MCP is built for cafe owners and managers who need to make data-driven decisions about pricing and menu composition.

Cafe Owners

You hand off your fixed costs and ingredient prices to the AI to find your daily survival numbers.

Restaurant Managers

You use the AI to model how changing a menu item's price or popularity affects the shop's bottom line.

Financial Analysts

You use the tool to quickly run sensitivity analyses on small business operating leverage.

What Changes When You Connect

- 01 Calculates daily revenue targets based on specific sales mixes.
- 02 Identifies high-margin products within your current menu.
- 03 Models the impact of changing product popularity on profitability.

04 Quantifies the margin of safety for your daily operations.

Real-World Applications

Menu Optimization

Determine if adding a high-margin pastry will lower your daily break-even point.

Pricing Adjustments

See how a price increase on coffee affects your total daily revenue needs.

Budget Planning

Calculate the revenue required to cover a sudden increase in monthly fixed costs like rent.

Risk Management

Check your margin of safety to understand how much a slow week will impact your ability to cover costs.

Patterns to Avoid

Guessing your daily targets

❌ AVOID

You look at last week's sales and assume you'll hit your break-even point today without checking current ingredient costs.

✓ INSTEAD

Use ``calculate_daily_break_even`` to get your exact revenue and unit targets based on your actual costs.

Ignoring product mix shifts

❌ AVOID

You assume your profit stays the same even though customers are buying more low-margin pastries instead of high-margin coffee.

✓ INSTEAD

Run ``simulate_sales_mix_shift`` to see how changes in what people buy affect your break-even point.

Overlooking margin sensitivity

❌ AVOID

You plan your budget assuming a steady sales volume and don't account for how a slow week hits your bottom line.

✓ INSTEAD

Check your margin of safety with ``get_operating_leverage`` to understand your actual risk levels.

The Right Fit

Connect this MCP if you manage a cafe and need to turn menu changes and cost shifts into specific daily sales targets. Do not connect it if you only want to track historical sales without modeling future scenarios. The decision depends on whether you need to proactively manage margins rather than just recording them.

Cafe Break-Even Planner Toolset

These tools handle the math behind your margins, from individual product profitability to total daily revenue targets.

#	TOOL	DESCRIPTION
01	analyze_product_profitability	This tool breaks down the profit contribution of every item in your sales mix. It helps you see which specific products are driving your margins.
02	calculate_daily_break_even	This tool finds your daily revenue and unit targets. It tells you exactly what you need to sell to cover your costs for the day.
03	get_operating_leverage	This tool calculates your operating leverage and margin of safety. It shows how sensitive your profit is to changes in sales volume.
04	simulate_sales_mix_shift	This tool predicts how changing your menu or customer habits affects your break-even point. It lets you model different sales scenarios.

See It in Action

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

- U** How much revenue do I need to make daily if my monthly fixed costs are \$5000, I'm open 25 days a month, and my sales mix is 60% coffee (\$4 price, \$1 cost) and 40% pastries (\$5 price, \$2 cost)?



To cover your \$5,000 monthly fixed costs with that sales mix, you need to generate \$312.50 in revenue every day.

- U** Which of these items is most profitable: Coffee (\$4 price, \$1 cost, 70% weight) or Muffin (\$5 price, \$2 cost, 30% weight)?



The Coffee has a unit margin of \$3.00, while the Muffin has a unit margin of \$3.00. However, the Coffee contributes \$2.10 to your total margin, whereas the Muffin contributes \$0.90.

- U** What is my margin of safety if my break-even is \$200/day and I currently sell \$250/day?



Your margin of safety is 25%. This means your daily sales can drop by 25% before you reach the break-even point.

Frequently Asked Questions

01 What can this MCP do for my cafe?

It calculates your daily break-even revenue, analyzes the profitability of your menu items, and simulates how changes in your sales mix affect your bottom line.

02 How do I use this with Claude or Cursor?

You connect your client to Vinkius once. After that, the tools are available for your AI client to call whenever you ask a financial question about your cafe.

03 Do I need to provide my own cost data?

Yes. You provide your specific fixed costs, ingredient costs, and sales prices to your AI client, and the MCP performs the calculations based on that data.

04 Can it help with menu pricing?

Yes. You can use the profitability and sales mix simulation tools to see how different prices or product volumes change your daily targets.

05 Is this for monthly or daily planning?

It handles both. You can input monthly fixed costs to find out exactly what your daily revenue targets need to be.

06 How do I calculate my daily break-even target?

You can use the ``calculate_daily_break_even`` tool. Provide your monthly fixed costs, the number of operating days, and a JSON array representing your sales mix (including price, ingredient cost, and revenue weight).

07 Can I see which menu items are most profitable?

Yes, the ``analyze_product_profitability`` tool provides a detailed breakdown of unit margins and how much each item contributes to your total weighted margin.

08 What happens if I change my product mix?

Use the ``simulate_sales_mix_shift`` tool to compare your current mix against a new proposed mix. It will show you the percentage change in required revenue and unit volume.

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>"cafe-break-even-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

Cafe Break-Even 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

Generated	October 2026
MCP Server	Cafe Break-Even Planner MCP
Server ID	01a0f2aa-104a-739f-8e3e-7969170d279a
Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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