

MCP SERVER

NO CODE

CLOUD HOSTED

Break-Even Revenue Analysis MCP

Find the exact sales numbers needed to cover your costs.

Break-Even Revenue Analysis MCP gives your AI client the math it needs to handle critical financial calculations. Instead of guessing, your agent can instantly determine the sales volume or total revenue required to hit a zero-profit state. It handles the heavy lifting for pricing strategies and risk assessments by calculating contribution margins and break-even thresholds.

A+ Quality Score 100/100

break-even

revenue

profitability

financial-analysis

business-metrics



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.

Break-Even Revenue Analysis MCP

3 tools available

Cloud-hosted on Vinkius

You can stop manually running break-even formulas every time you adjust a price or a cost. This MCP gives your AI client the specific tools to calculate exactly when a business stops losing money and starts making it. Whether you are testing a new product price or evaluating fixed overhead, your agent can run the numbers in seconds. You can use it to figure out how many units you need to move to cover your bills or what your total revenue target should be. It also breaks down how much each individual sale actually contributes to your fixed costs, which is vital for understanding your margins. It turns your AI into a sharp financial analyst that can help you plan for risk and set realistic sales targets without the manual spreadsheet work.

Core Capabilities

01 — Revenue Targets

Your agent calculates the total dollar amount needed to reach a zero-profit state.

02 — Unit Volume Requirements

The AI determines the exact number of items you need to sell to cover costs.

03 — Margin Analysis

Your agent evaluates how much each sale helps pay down fixed expenses.

04 — Risk Assessment

The AI uses cost and price data to find the threshold for profitability.

One Click on Vinkius — From Prompt to Execution

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

- 01 Connect your MCP-compatible client to Vinkius.
- 02 Provide your cost and pricing data to your AI agent.
- 03 The agent calls the specific tool needed for the calculation.
- 04 You receive the exact revenue or unit count required.

Connect the MCP to your client and start asking financial questions immediately.

Built For

This MCP is built for professionals who need to run quick, accurate financial models through an AI interface.

Financial Analysts

They hand off complex break-even calculations to the agent to speed up modeling.

Small Business Owners

They use the AI to quickly check if a new pricing strategy is viable.

Product Managers

They ask the agent to calculate unit targets for new product launches.

What Changes When You Connect

- 01 Eliminates manual math by letting your agent handle the formulas.
- 02 Provides instant answers for pricing and volume decisions.

- 03 Reduces errors in calculating contribution margins and break-even points.
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Real-World Applications

Pricing Strategy

Test how changing a product price affects the number of units you need to sell.

New Product Launches

Determine the sales volume required to cover the initial costs of a new item.

Overhead Evaluation

See how increases in fixed costs change your total revenue requirements.

Profitability Planning

Use contribution margin data to understand the impact of each sale on the bottom line.

Patterns to Avoid

Guessing margin impact

❌ AVOID

You tell your agent that you think your margins are healthy enough to cover a 10% rent hike without checking the math.

✓ INSTEAD

Run ``get_contribution_margin_analysis`` to see exactly how much each sale contributes to your fixed costs before making a decision.

Vague revenue targets

❌ AVOID

You ask your agent to tell you if a new product is profitable without providing specific cost or price data.

✓ INSTEAD

Provide your price and cost inputs and use ``get_break_even_revenue`` to find the specific dollar amount needed to hit zero profit.

Ignoring unit volume needs

❌ AVOID

You plan a product launch based on total revenue goals but forget to check if your warehouse can actually move that many units.

✓ INSTEAD

Use ``get_break_even_units`` to determine the precise number of items you need to sell to cover your expenses.

The Right Fit

Connect this MCP if you frequently adjust pricing or overhead and need instant financial modeling. Do not connect it if you only perform annual budget reviews. The deciding factor is whether you need to run real-time sensitivity tests on your margins.



Break-Even Revenue Analysis 3 Tools

These tools handle the heavy lifting for break-even modeling, unit targets, and margin calculations.

#	TOOL	DESCRIPTION
01	get_break_even_revenue	Use this to find the total sales volume in currency needed to reach the break-even point.
02	get_break_even_units	This tool determines the specific number of individual items you must sell to cover all expenses.
03	get_contribution_margin_analysis	This tool provides a breakdown of how much each sale contributes toward covering your fixed costs.

See It in Action

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

U What is the break-even revenue if fixed costs are \$10,000, the selling price is \$50, and variable costs are \$30 per unit?



The break-even revenue is \$25,000.

U How many units do I need to sell to break even with \$5,000 in fixed costs, a \$100 selling price, and \$60 variable costs?



You need to sell 125 units to reach the break-even point.

U Calculate the contribution margin for a product with a \$200 selling price and \$120 variable cost.



The unit contribution margin is \$80, and the contribution margin ratio is 40%.

Frequently Asked Questions

01 What can this MCP calculate?

It calculates break-even revenue, break-even units, and contribution margins.

02 Which AI clients can use this MCP?

You can use it with any MCP-compatible client like Claude, Cursor, or Windsurf.

03 Do I need to host this myself?

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

04 Can I use this for pricing my products?

Yes, you can use the tools to see how different prices affect your break-even point.

05 Is there a setup process?

No, you just connect your client to the Vinkius catalog and start working.

06 What is the purpose of this MCP?

It provides tools to calculate break-even units, break-even revenue, and contribution margin analysis to help businesses understand their profitability thresholds.

07 How do I use the break-even revenue tool?

You can use ``get_break_even_revenue`` by providing the total fixed costs, the selling price per unit, and the variable cost per unit.

08 Can I analyze my contribution margin?

Yes, the ``get_contribution_margin_analysis`` tool provides a detailed breakdown of the unit contribution margin and the contribution margin ratio.

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>"break-even-revenue-analysis": { "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

Break-Even Revenue Analysis 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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