

MCP SERVER

NO CODE

CLOUD HOSTED

Tip Split Trick Calculator MCP for AI Agents

Calculate restaurant bill splits and tax breakdowns instantly.

Tip Split Trick Calculator handles restaurant bill math for even and uneven splits, pre-tax vs. post-tax tipping, and tax breakdowns. It's a fast way to figure out exactly who owes what without the mental math. Use it to handle complex group orders where some people share appetizers and others have separate entrees, or to quickly isolate tax amounts for business expense reports.

A+ Quality Score 98.33/100

calculator

restaurant

tipping

splitting-bills

math



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.

Tip Split Trick Calculator MCP

3 tools available

Cloud-hosted on Vinkius

This MCP handles the math of restaurant billing so you don't have to. It's built for those moments when the bill arrives and everyone starts doing mental gymnastics to figure out who owes what. If you're splitting a tab equally among a group of friends, it gives you the per-person total instantly. If the situation is more complex, like some people sharing appetizers while others ordered full entrees, the tool handles proportional splits. It takes the individual costs, the tax rate, and the tip percentage to give everyone a fair share based on what they actually ate.

It also works for the practical side of dining, like pulling out the exact tax amount from a final total. This is a huge help for anyone who needs to break down expenses for work or just wants to see the true cost of a meal. Instead of spending minutes on a phone calculator or arguing over pennies, you can just let your agent do the heavy lifting. It's one of the most practical tools in the Vinkius catalog for anyone who wants to move past the math and get back to the conversation. Whether you're a traveler trying to split a shared taxi and dinner, or a manager trying to sort out a business lunch, this tool ensures the math is always right. You get a clean, accurate breakdown in seconds, which means no more awkward moments of re-calculating everything at the table.

Core Capabilities

01 — Split bills equally

Divides the total bill across a specific number of people instantly.

02 — Calculate proportional shares

Distributes the total based on what each person actually spent on their own items.

03 — Extract tax amounts

Pulls out the specific tax portion from a final bill total.

04 — Calculate pre-tax tips

Determines the tip amount based on the subtotal before taxes.

05 — Calculate post-tax tips

Determines the tip amount based on the final total including taxes.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/tip-split-trick-calculator — connect your AI agent in three steps.

- 01 Provide the total bill amount, tax rate, and tip percentage.
- 02 Specify the number of people for an equal split or enter individual order costs for a proportional one.
- 03 Receive a clear breakdown of the individual totals.

The bottom line is you get an instant, accurate breakdown of who owes what so you can pay the bill and get out.

Built For

For the person who hates doing mental math at the dinner table. It's for the group leader who doesn't want to be the bill police and the socialite who just wants to pay their fair share and leave.

Social Organizer

Calculates shares for a large group dinner to avoid awkwardness when everyone ordered different items.

Frequent Diner

Quickly checks tax and tip amounts for business expense reports during lunch.

Travel Planner

Handles multi-person expenses and shared costs while on vacation.

What Changes When You Connect

- 01 Stop the 'who owes what' argument with `uneven_split_calculator` to handle different order sizes.
- 02 Get instant totals for groups with `even_split_calculator` instead of pulling out a physical calculator.
- 03 See exactly how much tax you're paying with `tax_summary_calculator` for cleaner expense tracking.

-
- 04** Choose between pre-tax and post-tax tipping without doing the manual math yourself.
-
- 05** Save time on group dinners by letting your agent handle the proportions automatically.
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Real-World Applications

The Group Dinner

A group of 8 splits a \$300 bill where 3 people shared appetizers and 5 had separate entrees. Use ``uneven_split_calculator`` to get the exact split.

The Shared Appetizer

Two friends want to split a \$40 order of wings and a \$60 order of sushi proportionally. Use ``uneven_split_calculator`` to handle the math.

The Business Lunch

An employee needs to know the exact tax amount on a \$120 meal for a company expense report. Use ``tax_summary_calculator`` to pull that number out.

The Quick Equal Split

A group of 4 wants to split a \$200 tab equally, including a 20% tip on the pre-tax amount. Use ``even_split_calculator`` for the result.

Patterns to Avoid

Manual Proportional Math

X AVOID

Trying to calculate percentages in your head while the waiter waits at the table.

✓ INSTEAD

Use ``uneven_split_calculator`` to do the math for you instantly.

Guessing the Tax

X AVOID

Assuming tax is a flat 8% when it might be different depending on the location.

✓ INSTEAD

Use ``tax_summary_calculator`` to get the exact amount from the total.

Over-calculating Tipping

X AVOID

Getting confused between tipping on the subtotal vs. the final total.

✓ INSTEAD

Ask your agent to run both scenarios using ``even_split_calculator``.

The Right Fit

Use this if you need to split complex restaurant bills, calculate proportional shares for different orders, or isolate tax amounts for expense reports. Don't use it if you just need a simple tip percentage calculation without a total bill amount. If you need to manage a full recurring subscription for group expenses, a dedicated expense management tool is better. This MCP is the right choice for real-time, one-off bill splitting where accuracy matters more than building a long-term history.

Tip Split Trick Calculator for Restaurant Bill Math

We've all been there. The check arrives, and suddenly everyone is staring at the paper trying to figure out who had the expensive steak and who just had a side salad. You end up doing back of the napkin math that usually ends up being off by a few dollars, leading to that awkward moment of double-checking everyone's Venmo requests.

This MCP changes that. You just tell your agent the totals and the individual costs. It handles the proportional math instantly. You get a clear list of what everyone owes, so you can settle up and get back to your conversation.

Tip Split Trick Calculator for Expense Report Accuracy

For business travelers, the total isn't enough. You need to know the exact tax amount to separate from the tip and the meal cost for your company's records. Manually reversing a tip and tax from a final total is a headache that wastes time and invites errors.

This MCP lets you isolate those numbers in seconds. You get the specific tax portion and the final total without any manual clicking or guessing. It turns a tedious accounting task into a one-sentence request.

Tip Split Trick Calculator 3-Tool Restaurant Math

Quickly calculate even splits, proportional shares, and tax breakdowns for any restaurant bill.

#	TOOL	DESCRIPTION
01	<code>uneven_split_calculator</code>	Splits the total bill proportionally based on what each person spent on their own items.
02	<code>even_split_calculator</code>	Divides the total bill equally across a specific number of people.
03	<code>tax_summary_calculator</code>	Pulls out the tax portion of a bill and shows the final total.

See It in Action

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

U We have a \$150 bill with 9% tax and a 20% tip. There are 3 of us splitting it equally. What does each person owe?



Here is the breakdown for your **\$150.00** bill:

METHOD	TOTAL TIP	EACH PERSON OWES
Pre-tax Tip	\$30.00	\$60.00
Post-tax Tip	\$32.40	\$60.80

Note: The tax amount is \$13.50.

U I spent \$40 and my friend spent \$60. The total is \$100 with 8% tax and 18% tip. How much should each of us pay?



Based on your individual spending, here is the split:

- **Your Share (\$40 order):** \$49.44
- **Friend's Share (\$60 order):** \$75.56

This accounts for the \$8.00 tax and \$18.00 tip distributed proportionally to your spending.

U What is the tax on a \$85 meal with an 8% tax rate?



For a **\$85.00** meal with an 8% tax rate:

- **Tax Amount:** \$6.80
- **New Total:** \$91.80

Frequently Asked Questions

01 How does Tip Split Trick Calculator help with group dinners?

It handles the math of dividing the bill so you don't have to. It can split the total equally or proportionally based on what everyone ordered, giving you a clear amount for everyone to pay.

02 Can I use Tip Split Trick Calculator for proportional splits?

Yes, it's designed for that. You can input individual order costs, and it will automatically distribute the tax and tip fairly based on those amounts.

03 How does Tip Split Trick Calculator handle tax?

It can pull out the specific tax amount from a total bill. This helps you see exactly how much tax was paid versus the tip and the meal cost.

04 Can I use Tip Split Trick Calculator for business expenses?

It's great for that. You can use it to isolate tax amounts and total costs quickly, making it much easier to fill out expense reports accurately.

05 How do I split a bill for different order sizes?

Just tell your agent the total bill, the tax rate, the tip percentage, and the individual prices for each person's items. It will do the rest.

06 Does Tip Split Trick Calculator do pre-tax tipping?







Yes, it can calculate tips based on the pre-tax subtotal or the final post-tax total, depending on what you prefer.

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>"tip-split-trick-calculator": { "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

Tip Split Trick Calculator 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](https://cloud.vinkius.com) →

vinkius.com · support@vinkius.com

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