

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

Dinner Reservation Splitter MCP

Handle complex group restaurant bills without the math headache.

Dinner Reservation Splitter MCP handles the messy math of group dining. It calculates individual shares by factoring in specific meal costs, proportional taxes, tips, and shared appetizers. Your AI client can also manage group-wide fees like cancellation penalties or apply credits from deposits to ensure everyone pays exactly what they owe.

A+ Quality Score 100/100

restaurant

billing

splitting

math

group-dining



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.

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.

Dinner Reservation Splitter MCP

4 tools available

Cloud-hosted on Vinkius

Stop arguing over the check at the end of a long meal. This MCP gives your AI client the logic needed to break down restaurant bills with total precision. Instead of just dividing the total by the number of people, you can give your agent the specific details of what everyone ordered. It accounts for the nuances that make manual splitting difficult, such as distributing tax and tip proportionally based on individual meal totals. If a group shares a few appetizers, the MCP can divide those costs only among the people who actually ate them. It also handles the less fun parts of dining, like applying cancellation fees or accounting for pre-paid deposits. You just provide the raw data from the receipt or reservation, and your agent does the rest.

Core Capabilities

01 — Proportional Tax and Tip

Your agent calculates tax and tip based on each person's specific subtotal.

02 — Shared Item Division

The MCP splits the cost of appetizers or shared plates among specific participants.

03 — Fee Management

Your agent handles cancellation penalties and group-wide service fees.

04 — Disparity Analysis

The tool flags when certain diners are paying significantly more than the group average.

05 — Deposit Application

The MCP applies credits from pre-paid deposits to the final totals.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/dinner-reservation-splitter — connect your AI agent in three steps.

- 01
- Connect your MCP-compatible client to Vinkius.
- 02
- Provide the raw bill or reservation details to your AI agent.
- 03
- Specify how shared items or fees should be handled.
- 04
- Receive a precise breakdown of what each person owes.

Connect the MCP to your client and feed it your receipt or reservation data.

Built For

Anyone managing group dining logistics or restaurant-related finances through an AI agent.

Event Coordinators

Hand off complex group billing data to the AI to get instant individual totals.

Restaurant Managers

Use the agent to verify cancellation fees and reservation policies.

Personal Assistants

Delegate the task of splitting messy receipts after group outings.

What Changes When You Connect

- 01
- Eliminates manual calculation errors for tax and tip distribution.
- 02
- Allows for granular splitting of shared items among specific people.
- 03
- Automates the application of cancellation fees and deposits.

04 Provides clear breakdowns of individual costs for every diner.

Real-World Applications

Large Group Dinners

Split a large bill where people ordered different amounts and shared several plates.

Expense Tracking

Get precise individual totals to record in personal or business expense logs.

Reservation Management

Determine if a group owes a cancellation fee based on their reservation status.

Fairness Auditing

Check if any individual is paying an unfair amount relative to the rest of the group.

Patterns to Avoid

Blindly dividing the total

❌ AVOID

You tell your agent to just divide the final bill by five people. This ignores the fact that two people didn't drink any alcohol.

✓ INSTEAD

Provide the specific itemized list to your agent and use `calculate_individual_shares` to ensure everyone pays only for what they actually consumed.

Ignoring shared plate costs

❌ AVOID

You treat a large shared appetizer as an individual item for one person. This makes their bill much higher than it should be.

✓ INSTEAD

Use `split_shared_appetizers` to distribute the cost of those specific dishes only among the people who ate them.

Overlooking cancellation penalties

❌ AVOID

You calculate the bill based only on the food ordered and forget about the restaurant's no-show fee.

✓ INSTEAD

Run `validate_reservation_status` first to see if any penalties need to be added to the final group total.

The Right Fit

Connect this MCP if you frequently manage group dining expenses or event logistics where individual accountability matters. Do not connect it if you only ever split even bills among close friends. The decision depends on whether your group orders varied items or shares plates.

4 Tools for Precise Group Bill Calculations

These tools handle everything from splitting shared plates to verifying reservation policies and calculating final individual totals.

#	TOOL	DESCRIPTION
01	analyze_group_disparity	This tool identifies which diners are paying a higher percentage of the total bill compared to the group average.
02	calculate_individual_shares	This tool calculates the final amount each person owes by factoring in meals, tax, tip, discounts, and fees.
03	split_shared_appetizers	This tool divides the cost of a single shared dish among a specific subset of the group.
04	validate_reservation_status	This tool checks if a cancellation fee needs to be applied based on the reservation status and policy.

See It in Action

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

- U** Calculate the shares for a group where Alice had a \$20 meal and Bob had a \$30 meal, with an 8% tax, 20% tip, and a \$5 cancellation fee.



Alice owes \$27.00 and Bob owes \$33.00.

- U** Check if a cancelled reservation with a \$50 flat fee should be charged for a \$200 subtotal.



Yes, a fee of \$50.00 should be charged.

- U** Split a \$15 appetizer between Charlie and Dave equally.



Each person owes \$7.50.

Frequently Asked Questions

01 How does this MCP handle tips?

The MCP calculates tips proportionally based on the individual meal costs provided.

02 Can I split an appetizer between only two people in a larger group?

Yes, you can use the tool to divide a shared item among a specific subset of diners.

03 Does it handle cancellation fees?

Yes, the MCP can validate reservation status to determine if a cancellation fee applies.

04 What AI clients can I use with this MCP?

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

05 How does it deal with discounts?

The MCP can apply both global group discounts and item-specific discounts to the calculation.

06 How are taxes and tips calculated?

Taxes and tips are distributed proportionally based on the weight of each person's meal subtotal relative to the group total.

07 Can I split a shared appetizer among only some people?

Yes, you can use ``split_shared_appetizers`` to assign the cost of a specific item to a subset of diners.

08 How are cancellation fees handled?

Cancellation fees are treated as group-wide costs and are split equally among all participants in the reservation.

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>"dinner-reservation-splitter": { "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

Dinner Reservation Splitter 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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Server ID	01a0efa0-8665-72d0-be1b-7f3520842ac0
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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