MCP SERVER | NO CODE | CLOUD HOSTED

Beverage Batch Planner MCP

Calculate precise drink quantities and inventory needs for any event.

Beverage Batch Planner MCP handles the math for large scale drink service. It calculates exact liquid volumes by accounting for ice displacement and garnish size, tells you exactly how many bottles to buy, and checks recipes against dietary restrictions. Your AI client does the heavy lifting so you don't overbuy or run out mid-event.

A+ Quality Score 100/100

cocktails | catering | batching | inventory | event-management

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vinkius.com/en/ai-agent-connect/beverage-batch-planner

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.

Beverage Batch Planner MCP

4 tools available
Cloud-hosted on Vinkius

Planning drinks for a hundred people is different than making a single cocktail. You have to account for how much space ice takes up in a glass, how much room a lime wedge occupies, and exactly how many bottles of gin to order to avoid waste. This MCP turns your AI client into a professional catering assistant that handles these logistics instantly.

You can pull up base recipes and their unit costs to build accurate budgets. If you're worried about guest allergies, the tool checks your recipes against dietary or regional restrictions to keep things safe. Instead of guessing how much liquid you need, you provide the guest count and glass size, and the math is done for you. It's a direct way to move from a recipe idea to a shopping list without manual spreadsheets.

Core Capabilities

01 — Volume Calculation

The AI calculates liquid needs by subtracting ice and garnish displacement from glass volume.

02 — Inventory Planning

Your agent determines the number of full bottles required based on recipe needs.

03 — Dietary Verification

The AI checks recipes against specific dietary or regional restrictions.

04 — Cost Estimation

The tool calculates total ingredient costs for a planned batch.

05 — Recipe Retrieval

Your agent pulls base recipes and unit costs for specific drinks.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/en/ai-agent-connect/beverage-batch-planner** — connect your AI agent in three steps.

01 Connect your MCP-compatible client to Vinkius.

02 Provide your drink recipe or name to your agent.

03 Input guest count, glass size, and displacement details.

04 Receive precise liquid volumes, bottle counts, and cost totals.

Connect your AI client to Vinkius to start running beverage math.

Built For

This MCP is built for professionals managing beverage service for large groups.

Event Planners

They hand off guest counts and glass specs to get precise ingredient lists.

Caterers

They use it to generate shopping lists and estimate total drink costs.

Bar Managers

They use the tool to ensure recipe safety and inventory accuracy.

What Changes When You Connect

01	Accounts for ice and garnish displacement to prevent liquid shortages.
02	Converts ingredient volumes into full bottle purchase counts.
03	Identifies dietary conflicts within recipes automatically.
04	Calculates total event beverage costs based on unit pricing.

Real-World Applications

Wedding Beverage Planning

Calculate exactly how much champagne and mixers to buy for a specific guest count.

Catering Inventory Management

Turn a recipe list into a specific number of bottles to order from suppliers.

Dietary Compliance

Verify that a cocktail menu is safe for guests with specific dietary needs.

Budgeting for Events

Determine the total cost of a drink menu before purchasing ingredients.

Patterns to Avoid

Ignoring displacement math

AVOID

You tell your agent to buy enough liquid for 100 drinks based on total glass volume without accounting for ice. You end up short on booze because the ice took up half the glass.

✓ INSTEAD

Use `calculate_batch_requirements` to get the actual liquid volume needed after subtracting ice and garnish displacement.

Manual bottle counting

AVOID

You look at a recipe and try to guess how many 750ml bottles to order for a wedding of 200 people. It's easy to under-order or waste money on extra bottles.

✓ INSTEAD

Run `estimate_inventory_needs` to get the exact number of full units you need to buy.

Skipping allergy checks

AVOID

You assume a cocktail is safe for everyone because it looks simple. You don't realize a specific syrup or garnish violates a guest's dietary restriction.

✓ INSTEAD

Always run `validate_recipe_safety` to check your recipes against specific dietary or regional restrictions.

The Right Fit

Event planners and caterers who manage high-volume beverage service should connect this MCP. Small home parties or single-drink enthusiasts don't need it. The decision comes down to whether you need to convert liquid volumes into specific bottle counts and shopping lists.

Beverage Batch Planner 4 Tools

These tools handle the math, inventory math, and safety checks for large scale drink service.

#	TOOL	DESCRIPTION
01	calculate_batch_requirements	This tool calculates total liquid volumes, specific ingredient amounts, and the total cost for your planned event.
02	estimate_inventory_needs	This tool determines the exact number of full ingredient units you need to purchase to cover your batch.
03	get_recipe_by_name	This tool retrieves the base recipe and the unit costs for a specific beverage.
04	validate_recipe_safety	This tool checks if a recipe contains ingredients that conflict with dietary or regional restrictions.

See It in Action

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

U I need to make 50 Margaritas. The glasses are 300ml, ice takes up 50ml, and lime garnish takes up 10ml. How much liquid do I need?

To serve 50 guests, you will need a total batch volume of 12,000ml of liquid.

U Is the Mojito recipe safe for someone who is vegan?

Yes, the Mojito is safe for vegan dietary restrictions.

U How many 750ml bottles of Gin do I need for 100 servings of a Gin Fizz?

You will need to purchase 4 bottles of Gin.

Frequently Asked Questions

01 **How does this MCP handle ice in a drink?**

It uses ice displacement to calculate the actual liquid volume needed to fill a glass.

02 **Can I use this with Claude or Cursor?**

Yes, you can connect this MCP to any MCP-compatible client like Claude, Cursor, or Windsurf.

03 **Does it help with shopping lists?**

Yes, it calculates how many full units or bottles of an ingredient you need to buy.

04 **Can it check for vegan recipes?**

Yes, the tool can validate if a recipe meets specific dietary restrictions.

05 **How does it calculate costs?**

It uses unit costs from the recipe to determine the total cost for the batch.

06 **How does the tool account for ice?**

The tool uses the `iceDisplacement` parameter to subtract the volume occupied by ice from the total glass capacity, ensuring you don't overfill.

07 **Can I check if a drink is vegan?**

Yes, you can use `validate_recipe_safety` with the 'vegan' restriction to check for conflicting ingredients.

08 **How many bottles of gin should I buy?**

You can use `estimate_inventory_needs` to get the exact number of purchase units required for your batch.

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 `"beverage-batch-planner": { "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

Beverage Batch 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

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Server ID	`01a0f245-de4e-70bf-8172-c21e3ba13d75`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

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