

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

Benefit Total Calculator MCP

Get a clear view of your total employee compensation costs.

Benefit Total Calculator MCP lets your AI client aggregate base salaries and various benefit categories into a single economic value. You can quickly find where your company spends the most on supplemental benefits or check if your compensation data is formatted correctly before running reports.

A+ Quality Score 100/100

compensation

benefits

hr

payroll

analytics



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.

Benefit Total Calculator MCP

4 tools available

Cloud-hosted on Vinkius

Calculating the true cost of an employee involves more than just looking at a base salary. You have to account for health insurance, retirement contributions, wellness stipends, and other perks. This MCP gives your agent the ability to sum these disparate numbers into a single, accurate total reward figure. Instead of manually building spreadsheets to compare packages, you can ask your AI client to run the math for you. You can use it to spot which benefit categories are eating up the most budget or to verify that your compensation data follows the right structure. It turns raw payroll and benefits data into actionable insights without the manual arithmetic.

Core Capabilities

01 — Total Reward Calculation

Your agent uses this to combine base pay and benefits into one number.

02 — Spending Analysis

The AI uses this to group and sum costs by benefit type.

03 — Data Integrity Checks

Your agent uses this to confirm benefit values are formatted properly.

04 — Budget Outlier Detection

The AI uses this to find the single largest benefit category in a dataset.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/benefit-total-calculator — connect your AI agent in three steps.

- 01 Connect your preferred AI client to Vinkius.
- 02 Select the Benefit Total Calculator MCP from the catalog.
- 03 Provide your compensation or benefit data to your agent.
- 04 Ask your agent to calculate totals, find highest spends, or validate data.

Connecting this MCP to your AI client gives your agent immediate access to compensation math tools.

Built For

This MCP is built for professionals managing payroll, benefits, or workforce analytics. You can hand off raw compensation data to your agent to get instant summaries.

HR Managers

You provide benefit lists to get quick total compensation breakdowns for employees.

Payroll Specialists

You use this to validate that benefit structures are correct before processing.

Compensation Analysts

You hand off large datasets to identify which benefit categories represent the highest spend.

What Changes When You Connect

- 01 Combines base salary and benefits into a single total reward figure.
- 02 Groups spending by category to show where budget is allocated.

-
- 03 Validates data formatting to prevent calculation errors.
-
- 04 Identifies the most expensive benefit categories automatically.
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Real-World Applications

Offer Letter Preparation

Calculate the full economic value of a job offer to present a complete package to a candidate.

Data Cleaning

Verify that your benefit data is structured correctly before running large-scale payroll reports.

Budget Auditing

Check how much the company is spending on specific categories like wellness or insurance.

Benefit Optimization

Find out which supplemental benefits are the most costly to help inform future policy changes.

Patterns to Avoid

Manual spreadsheet math

❌ AVOID

You try to manually add up base pay and insurance costs in a chat window and hope the AI doesn't miss a line.

✓ INSTEAD

Let the agent do the heavy lifting by using ``calculate_total_compensation`` to get an accurate sum of the entire package.

Ignoring data formatting errors

❌ AVOID

You feed a messy CSV into your agent and wonder why the totals look wrong or won't calculate.

✓ INSTEAD

Run ``validate_benefit_structure`` first to ensure your data is clean and formatted correctly before you start running reports.

Vague budget inquiries

❌ AVOID

You ask your agent if the company is spending too much on benefits without any specific breakdown.

✓ INSTEAD

Use `'find_highest_benefit_category'` to pinpoint exactly which specific category is driving your highest costs.

The Right Fit

Connect this MCP if you manage payroll, benefits, or workforce analytics and need to move from raw data to total reward figures quickly. Do not connect it if you only handle base salary tracking without supplemental benefits. The decision depends on whether your compensation model includes non-salary perks like health insurance or retirement contributions.

Benefit Total Calculator Tools for Compensation Analysis

These tools handle the math for total reward packages and verify your benefit data structure.

#	TOOL	DESCRIPTION
01	calculate_total_compensation	This tool computes the full monetary value of an employee's entire package. It combines base pay with all supplemental benefits provided.
02	find_highest_benefit_category	This tool identifies which specific benefit category has the largest cumulative cost. It's useful for spotting your biggest supplemental spend areas.
03	get_category_totals	This tool sums up the total amount spent on each specific benefit type. It helps you see exactly how much is going toward health, retirement, or other categories.
04	validate_benefit_structure	This tool checks if your set of benefit values is formatted correctly. It ensures your data is clean before you perform calculations.

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 total compensation for an employee with a 100000 base salary and benefits: health 5000 and retirement 2000?



The total compensation is 107000.

U Show me the total spent on each benefit category for: health 5000, health 2000, and wellness 1000.



The totals are: health 7000 and wellness 1000.

U Which benefit category is the largest for: insurance 3000, travel 5000, and gym 1000?



The largest benefit category is travel.

Frequently Asked Questions

01 How do I use this MCP with Claude?

You connect your Claude client to Vinkius, which hosts the MCP. Once connected, you can simply ask Claude to perform compensation calculations using the available tools.

02 What kind of data does this MCP handle?

It handles base salary figures and various benefit category values like health, retirement, and wellness.

03 Can this MCP help with data errors?

Yes, you can use the `validate_benefit_structure` tool to check if your benefit values are formatted correctly.

04 Does this MCP work with Cursor or Windsurf?

Yes, any MCP-compatible client like Cursor or Windsurf can use these tools once connected via Vinkius.

05 Can I see how much I spend on insurance specifically?

Yes, you can use the `get_category_totals` tool to see the total amount spent on any specific benefit type.

06 How do I calculate the total compensation?

You can use the `calculate_total_compensation` tool by providing the annual base salary and a list of benefit objects.

07 Can I check if my benefit data is valid?

Yes, use the `validate_benefit_structure` tool to ensure your benefit objects contain the required category and amount fields.

08 How can I see which benefit is the most expensive?

The `find_highest_benefit_category` tool will identify which category has the highest cumulative sum.

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>"benefit-total-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

Benefit Total 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 →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

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Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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