

MCP SERVER

NO CODE

CLOUD HOSTED

Brazil CLT Payroll Calculator MCP for AI Agents

Calculating Compliant Employee Paychecks under Brazilian Law

Brazil CLT Payroll Calculator is an MCP that handles complex payroll calculations specific to Brazilian labor law (CLT). It accurately determines required deductions, including progressive Social Security contributions (INSS) and federal Income Tax (IRRF). You can calculate the final net pay for employees while also estimating the total cost burden on the employer, ensuring compliance with statutory charges like FGTS.

A+ Quality Score 100/100

brazil

clt

payroll

inss

irrf

taxes



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.

Brazil CLT Payroll Calculator MCP

4 tools available

Cloud-hosted on Vinkius

Handling Brazilian payroll isn't a simple math problem; it's a minefield of specific laws. This MCP gives your AI agent the specialized engine needed to calculate every essential component of CLT-governed paychecks. Instead of manually cross-referencing progressive deduction tables for INSS and applying complex tax brackets for IRRF, you simply ask your agent what the numbers should be. It calculates the precise deductions, determines the employee's net take-home salary, and, critically, figures out the total economic impact on the company. You get clear answers regarding statutory charges like FGTS or other employer burdens. Connect this MCP through Vinkius to give any compatible client—like Cursor or Claude—the ability to perform these detailed financial checks instantly, freeing up your team from compliance guesswork.

Core Capabilities

01 — Estimate Total Employer Cost

Calculates the company's total expenditure for an employee, including all statutory charges and burdens.

03 — Calculate Progressive INSS Deduction

Determines the required Social Security deduction, applying progressive rate changes based on salary tiers.

02 — Determine Income Tax Deductions (IRRF)

Applies Brazilian federal tax rules to calculate the specific amount of income tax withheld from a paycheck.

04 — Compute Employee Net Pay

Provides a final summary of an employee's net monthly salary after all deductions are subtracted from the gross pay.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/brazil-clt-payroll-calculator — connect your AI agent in three steps.

- 01** Provide your AI agent with the necessary payroll inputs, such as the employee's gross salary, number of dependents, and relevant contribution rates.
- 02** Your agent calls the required functions—like using `get_social_security_deduction` for INSS or `get_income_tax_deduction` for IRRF—to calculate specific components based on current Brazilian law.
- 03** The MCP returns a structured data payload containing all calculated amounts, allowing your agent to summarize the net pay and the total employer cost accurately.

The bottom line is that you get precise, legally compliant payroll numbers without ever needing to look up a tax table or reference a law book.

Built For

HR managers and finance professionals who work with Brazilian labor laws need this. If your team spends time verifying compliance or manually calculating paychecks, this MCP saves you hours of risk and tedious math.

Payroll Specialist

Uses the tool to run bulk simulations for payroll runs, ensuring every employee deduction (INSS, IRRF) is calculated correctly before processing payments.

Finance Manager

Calculates the total financial burden of hiring a new employee by running the `calculate_employer_total_cost` function against various salary levels.

HR Generalist

Responds to employee questions about their pay stubs quickly, using the MCP to verify accurate net pay calculations for specific scenarios.

What Changes When You Connect

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- 01** Accuracy: Get exact, legally compliant calculations for INSS and IRRF deductions every time. No more manual math errors.

 - 02** Efficiency: Your agent processes full payroll simulations in seconds, eliminating hours of spreadsheet work that used to take days.

 - 03** Clarity on Costs: The `calculate_employer_total_cost` tool shows the true economic impact of an employee, including all statutory employer burdens.

 - 04** Employee Confidence: Instantly verify net pay figures for employees, giving clear answers about their actual take-home salary.

 - 05** Compliance Assurance: You handle complex Brazilian labor law (CLT) math without needing a dedicated payroll expert on staff.
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Real-World Applications

Determining the True Cost of Hiring

A finance manager needs to know if they can afford to hire someone. Instead of just looking at the base salary, they use the `calculate_employer_total_cost` tool via their agent. The result gives them the full picture—the true cost burden on the company.

Responding to Complex Pay Questions

An employee asks why their paycheck is lower than expected due to tax changes. The agent runs the necessary deductions using `get_income_tax_deduction` and `calculate_employee_net_pay`, providing a precise, immediate answer.

Running a Mid-Year Payroll Audit

The HR team needs to verify if previous paychecks correctly applied progressive INSS deductions for a group of employees. They use `get_social_security_deduction` repeatedly, quickly cross-checking compliance across dozens of records.

Simulating Salary Adjustments

A manager needs to see how a raise impacts total payroll. They feed the new salary into all four tools—from `get_social_security_deduction` up through `calculate_employer_total_cost`—to present the full financial picture.

Patterns to Avoid

Calculating tax components manually

✗ AVOID

Trying to use a generic spreadsheet or formula for INSS/IRRF, which often fails when dealing with progressive rates or dependent adjustments.

✓ INSTEAD

Use the specialized tools. To find the required deduction amounts, call `get_social_security_deduction` and `get_income_tax_deduction` first. Then, use `calculate_employee_net_pay` to get the final figure.

Ignoring employer burden costs

✗ AVOID

Calculating only the employee's take-home pay (net salary) and forgetting about mandatory company contributions like FGTS or other statutory charges.

✓ INSTEAD

Always start by running `calculate_employer_total_cost`. This ensures you account for everything the company pays, giving a complete picture of labor expenses.

Mixing up pay period calculations

✗ AVOID

Using formulas designed for monthly payroll on semi-monthly or quarterly cycles, leading to incorrect proportional deductions.

✓ INSTEAD

The MCP is built to handle the full CLT cycle. Use `calculate_employee_net_pay` after providing the correct gross and tax parameters specific to your pay period.

The Right Fit

Use this MCP if your primary job involves calculating payroll for employees under Brazilian labor laws (CLT). You need accuracy, compliance, and speed when dealing with INSS, IRRF, or employer burden costs. Don't use it if you only need simple salary subtraction—a basic calculator will suffice. If you deal with different countries or non-standard compensation structures outside of CLT rules, this MCP won't help. You might need a specialized accounting tool for general ledger posting; the goal here is calculation accuracy before those entries are made.

Brazil CLT Payroll Calculator: Solving Complex INSS and IRRF Deductions

Manually running payroll in Brazil means wrestling with complex, tiered deduction schedules. You're constantly cross-referencing gross salary against progressive Social Security (INSS) brackets, then applying the correct federal tax rates for IRRF while factoring in dependents. It's a tedious process of copy-pasting numbers and hoping your spreadsheet formulas hold up under legal scrutiny.

With this MCP, you just ask your agent to calculate the necessary deductions. Instead of building complex lookup tables, you get direct access to tools like `get_social_security_deduction` and `get_income_tax_deduction`. You instantly receive precise, compliant figures for both tax components.

Brazil CLT Payroll Calculator: Calculating Total Employer Labor Costs

The biggest headache in payroll is often the 'true cost.' Most people only calculate the employee's net salary, completely missing the mandatory employer contributions—the statutory charges that increase your overall labor budget. You risk underestimating budgets when you forget to account for FGTS or other burdens.

This MCP changes that by providing `calculate_employer_total_cost`. It automatically includes every statutory charge required of the company, giving you a single, definitive number for total expenditure. Your budgeting process just got dramatically simpler.

Brazil CLT Payroll Calculator: 4 Tools for Brazilian Tax Compliance

These tools allow your AI agent to perform every calculation necessary for payroll compliance in Brazil, from determining tax deductions to finding the total employer cost.

#	TOOL	DESCRIPTION
01	<code>calculate_employer_total_cost</code>	Determines the complete financial outlay for an employee, including all mandatory company contributions.
02	<code>get_income_tax_deduction</code>	Calculates the federal income tax deduction (IRRF) based on salary and dependents.
03	<code>get_social_security_deduction</code>	Calculates the progressive Social Security contribution (INSS) required for the employee's gross pay.
04	<code>calculate_employee_net_pay</code>	Computes the final amount received by the employee after all taxes and deductions are removed from the salary.

See It in Action

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

U If I hire someone earning 5000 BRL, what is their actual take-home pay?



Payroll Estimate: Salary Package Breakdown

- Gross Monthly Salary: 5,000.00 BRL
- INSS Deduction (Progressive): -518.82 BRL
- IRRF Deduction (Taxable Income): -395.00 BRL
- **Net Pay: 4,086.18 BRL**

This is the employee's expected take-home pay after all mandatory deductions are applied.

U What is the full cost for a manager earning 7500 BRL?



Total Employer Cost Calculation

The company's total expenditure on this employee will be: **9,120.00 BRL**.

This includes:* Base Salary: 7,500.00 BRL **Mandatory Burden (FGTS/etc.): 1,620.00 BRL** Total Cost: 9,120.00 BRL

Keep this figure handy for budgeting.

U Calculate the net pay if the gross is 3000 BRL, with 2 dependents.



Payroll Summary Sheet

ITEM	AMOUNT (BRL)
Gross Salary	3,000.00
INSS Deduction	-260.00
IRRF Deduction	-150.00
Net Pay	2,590.00

The final net pay is 2,590.00 BRL.

Frequently Asked Questions

01 How do I calculate the total cost of an employee in Brazil?

You use this MCP to determine the full economic impact on your company. It calculates not just the salary, but also all statutory employer charges and burdens (like FGTS), giving you a single figure for budgeting.

02 Is Brazil CLT Payroll Calculator better than using Excel for payroll math?

Yes. While Excel is flexible, this MCP uses specialized tools built on up-to-date labor law models, drastically reducing the risk of manual calculation errors and ensuring compliance.

03 Can I use Brazil CLT Payroll Calculator to check net pay?

You can get an accurate net pay calculation. You must provide the gross salary and details like dependents, as these factors determine the exact amount of IRRF and INSS deductions.

04 Does this MCP account for federal income tax (IRRF)?







Yes. It includes a specific function to calculate the IRRF deduction, taking into account dependent status and current Brazilian tax brackets.

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>"brazil-clt-payroll-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

Brazil CLT Payroll 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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