

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

Nightly Rate Calculator MCP

Automate your hospitality booking math and rate calculations.

Nightly Rate Calculator handles the math for hotel and short-term rental bookings. Your AI client uses this MCP to split total costs into nightly averages, validate stay lengths, and generate financial summaries for multiple bookings at once.

A+ Quality Score 100/100

pricing

hotel

calculation

booking

rates



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.

Nightly Rate Calculator MCP

4 tools available

Cloud-hosted on Vinkius

You can stop manually dividing total booking costs by the number of nights. This MCP gives your AI agent the specific tools needed to handle hospitality pricing logic. Whether you are analyzing a single reservation or processing a large batch of booking data, your agent can now perform precise nightly rate calculations and stay validations. You can use it to pull a full financial breakdown of a stay or to check if a requested duration is even possible. It turns your AI client into a specialized pricing assistant that understands the nuances of room costs and stay durations.

Core Capabilities

01 — Rate Averaging

Your agent calculates the exact cost per night from a total booking price.

03 — Financial Summaries

Your agent generates a clear breakdown of total costs and nightly averages.

02 — Stay Validation

The AI checks if the number of nights provided for a booking is a valid duration.

04 — Batch Processing

The AI handles multiple rate calculations at the same time using bulk tools.

One Click on Vinkius — From Prompt to Execution

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

- 01 Connect your AI client to the Vinkius hosted MCP.
- 02 Provide the booking details like total cost and nights.
- 03 The AI invokes the specific tool needed for the calculation.
- 04 Your agent receives the result and presents it to you.

Get your pricing math running in minutes.

Built For

This MCP is designed for professionals managing hospitality data and booking logistics.

Hotel Managers

They hand off booking data to the AI to quickly audit nightly pricing.

Property Managers

They use the AI to calculate average rates across multiple short-term rentals.

Revenue Analysts

They delegate bulk rate calculations to the AI to analyze pricing trends.

What Changes When You Connect

-
- | | |
|----|--|
| 01 | Eliminates manual division errors in booking math. |
| 02 | Processes large batches of rates without repetitive prompts. |
| 03 | Validates stay durations to prevent data entry errors. |
| 04 | Provides instant financial summaries for any booking. |
-

Real-World Applications

Booking Audits

Your agent checks if the nightly rate charged matches the total cost and duration.

Bulk Pricing Analysis

You send a list of multiple bookings to the AI to get all nightly rates at once.

Data Cleaning

The AI uses validation tools to flag invalid stay durations in your booking logs.

Customer Support

An agent provides customers with a clear breakdown of their stay costs instantly.

Patterns to Avoid

Manual Math Errors

❌ AVOID

You try to calculate the nightly rate yourself by typing the total and nights into a chat prompt and hope the AI doesn't hallucinate the division.

✓ INSTEAD

Let the agent do the heavy lifting by using ``get_nightly_rate`` to ensure the math is exact every time.

Invalid Stay Data

❌ AVOID

You feed your agent a list of bookings that includes a zero-night stay, causing errors in your financial reports.

✓ INSTEAD

Run your data through ``validate_stay_duration`` first to catch impossible stay lengths before they mess up your totals.

Slow Single-Entry Processing

❌ AVOID

You ask your agent to calculate the rate for one booking, then repeat the prompt for every single row in a spreadsheet.

✓ INSTEAD

Use ``bulk_calculate_rates`` to process your entire dataset in one go instead of doing it one by one.

The Right Fit

Connect this MCP if you manage hotel data, short-term rentals, or revenue analysis where nightly rate accuracy is non-negotiable. Do not connect it if you only handle flat-fee bookings or single-night stays that don't require rate averaging. The decision rests on whether you need to validate stay durations and automate bulk pricing math.

Nightly Rate Calculator 4 Tools

These tools handle the math for hospitality pricing, from single stay breakdowns to bulk rate processing.

#	TOOL	DESCRIPTION
01	bulk_calculate_rates	This tool processes multiple booking rates in a single request. It's built for handling large datasets of room costs and durations.
02	get_stay_summary	This tool provides a full financial breakdown of a booking. It returns the total amount, the number of nights, and the average rate.
03	get_nightly_rate	This tool calculates the average cost per night for a specific stay. You provide the total cost and the number of nights.
04	validate_stay_duration	This tool checks if a requested stay length is valid. It prevents errors by ensuring stay durations are logical, such as avoiding zero-night stays.

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 nightly rate for a stay costing \$500 for 5 nights?



The nightly rate is \$100.

U Give me a summary for a \$1200 booking over 4 nights.



Total amount: \$1200, Nights: 4, Average rate: \$300.

U Is a stay of 0 nights valid?



No, a stay of 0 nights is not a valid duration.

Frequently Asked Questions

01 How do I use this MCP with Claude?

You connect your Claude client to the Vinkius platform, which hosts the MCP for you. Once connected, you can simply ask Claude to perform the calculations.

02 Can I calculate rates for many bookings at once?

Yes, the `bulk_calculate_rates` tool is specifically designed to process multiple bookings in one go.

03 Does this MCP validate if a stay is possible?

Yes, the `validate_stay_duration` tool checks that the number of nights provided is a valid duration.

04 What kind of financial data can it provide?

The `get_stay_summary` tool provides the total amount, the number of nights, and the average nightly rate.

05 Do I need to host the MCP myself?

No, Vinkius hosts and manages the MCP for you. You just connect your client and start working.

06 How do I calculate the rate for a single booking?

You can use the ``get_nightly_rate`` tool by providing the total room cost and the number of nights stayed.

07 Can I process multiple bookings at the same time?

Yes, the ``bulk_calculate_rates`` tool allows you to process a list of booking objects in a single request.

08 What happens if I provide zero nights?

The tools will return an error, as a valid stay must consist of at least one night.

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>"nightly-rate-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

Nightly Rate 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

Generated	September 2026
MCP Server	Nightly Rate Calculator MCP
Server ID	01a0d133-71d7-721a-af3d-3e62adbea23c
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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