

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

Commuter Mode Cost Comparator MCP

Calculate exactly how much your daily travel costs.

Commuter Mode Cost Comparator is a specialized tool for analyzing the financial and time-based impact of your daily travel. It lets your AI client run side-by-side comparisons of driving, public transit, and biking to find the most efficient way to get to work or school.

A+ Quality Score 98.33/100

commute

cost-analysis

travel

efficiency

transport



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.

Commuter Mode Cost Comparator MCP

4 tools available

Cloud-hosted on Vinkius

Stop guessing how much you spend on gas, tolls, or bus fares. This MCP gives your AI agent the math skills to break down your commute into hard numbers. You can look at the specific monetary burden of a single car trip or weigh the time-to-cost ratio of taking the train versus driving. It handles the variables like fuel prices, parking fees, and passenger counts so you don't have to. Whether you are trying to decide if a new job is worth the drive or if a transit pass actually saves you money, this tool provides the data to make that call. You can run quick checks on specific trips or ask for a high-level summary of the best options available to you.

Core Capabilities

01 — Multi-mode comparison

Your agent compares driving, biking, and transit in one go.

03 — Transit impact analysis

Your agent evaluates the time and money spent on public transportation.

02 — Vehicle expense tracking

The AI calculates fuel, tolls, and parking costs for specific trips.

04 — Efficiency summaries

The tool identifies the cheapest and fastest routes for your profile.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/commuter-mode-cost-comparator — connect your AI agent in three steps.

- 01 Connect the MCP to Claude, Cursor, or Windsurf via Vinkius.
- 02 Provide your trip details like distance, fuel cost, or fare.
- 03 Ask your agent to compare different modes or calculate specific costs.
- 04 Review the mathematical breakdown and efficiency summaries provided by the agent.

Connect the MCP to your client and start asking questions about your travel data.

Built For

This is for anyone trying to optimize their daily budget or schedule based on travel habits.

Commuters

People looking to reduce monthly spending on gas and transit.

Financial Planners

Professionals calculating the true cost of living in a specific area.

Urban Researchers

Users analyzing the efficiency of different transport modes.

What Changes When You Connect

- 01 Identifies the cheapest travel method for your specific route.
- 02 Calculates per-person costs for carpooling or shared rides.
- 03 Breaks down the time-to-cost ratio of different transit options.

04 Provides a clear overview of monthly travel expenses.

Real-World Applications

New Job Evaluation

Compare the cost of driving to a new office against the cost of taking the train.

Budgeting for Transit

Check if a monthly transit pass is cheaper than paying for daily gas and parking.

Carpooling Math

Determine how much a trip costs per person when you add passengers to a vehicle.

Route Optimization

Find the fastest way to get somewhere by weighing time against expense.

Patterns to Avoid

Vague trip requests

❌ AVOID

Ask your agent to tell you if driving is expensive. This doesn't give the tool any variables to work with.

✓ INSTEAD

Provide specific details like fuel prices and parking fees, then use ``calculate_vehicle_operating_cost`` to get a real dollar amount.

Ignoring passenger counts

❌ AVOID

Comparing a solo drive to a bus fare without considering carpooling. You'll miss the actual per-person savings.

✓ INSTEAD

Include the number of passengers in your request and use ``compare_commute_modes`` to see how shared rides change the math.

Overlooking time costs

❌ AVOID

Only looking at the cheapest gas price while ignoring that the route takes two hours longer. You're only seeing half the picture.

✓ INSTEAD

Use ``get_commute_summary`` to weigh the time-to-cost ratio so you don't trade your time for pennies.

The Right Fit

Connect this MCP if you need to make data-driven decisions about relocation, commuting budgets, or transit usage. Do not connect it if you just want general travel advice. The decision rests on whether you have specific trip variables like fuel costs and tolls to analyze.



Commuter Mode Cost Comparator Tools

These tools handle the math for trip expenses, transit efficiency, and route comparisons.

#	TOOL	DESCRIPTION
01	calculate_vehicle_operating_cost	This tool finds the specific dollar amount you spend using a private or shared vehicle for one trip.
02	compare_commute_modes	Use this to put different travel methods side-by-side to see how they stack up in cost and time.
03	evaluate_transit_efficiency	This tool calculates how much time and money public or shared transit options actually cost you.
04	get_commute_summary	Get a quick overview of the fastest and cheapest travel options based on your specific data.

See It in Action

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

- U** Compare driving a car (20 miles, \$3.50 fuel, \$5 parking, 1 person) vs taking a bus (\$2.50 fare, 45 mins) for 20 days a month.



The bus is the cheapest option at \$50.00 per month, while driving costs \$140.00 per month. The bus is also faster if driving involves heavy traffic.

- U** What is the cost-per-minute for a 30-minute commute that costs \$5.00?



The cost-per-minute for this commute is \$0.17.

- U** Calculate the vehicle cost for a 10 mile trip with \$4 fuel, \$2 tolls, and 2 people in the car.



The total daily cost for the vehicle is \$3.00 per person.

Frequently Asked Questions

01 How does this MCP help with commuting?

It allows your AI client to calculate the exact costs and time requirements for different ways of traveling, such as driving versus taking the bus.

02 Can I compare driving costs with public transit?

Yes, you can use the comparison tool to see how much you save in money or time by switching from a car to transit.

03 Does it account for carpooling?

Yes, the vehicle operating cost tool can calculate the cost per person when multiple people are in the vehicle.

04 Which AI clients can use this MCP?

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

05 What kind of data do I need to provide?

You should provide details like trip distance, fuel prices, parking fees, tolls, or transit fares to get accurate results.

06 How does the tool calculate vehicle costs?

The ``calculate_vehicle_operating_cost`` tool sums fuel, tolls, and parking, then divides the total by the occupancy to determine the individual's share.

07 Can I compare carpooling with public transit?

Yes, by using ``compare_commute_modes``, you can input different modes with varying occupancy levels to see how carpooling affects your daily and monthly costs.

08 What is the most efficient way to see a summary?

After running a comparison, use ``get_commute_summary`` to instantly identify the cheapest, fastest, and most efficient mode for your profile.

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>"commuter-mode-cost-comparator": { "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

Commuter Mode Cost Comparator 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	https://edge.vinkius.com/{token}/mcp

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