MCP SERVER | NO CODE | CLOUD HOSTED

# Google Maps MCP

## Calculate routes, find locations, and analyze addresses.

Google Maps MCP gives your agent full control over location intelligence and routing. You can convert physical addresses into precise coordinates, search for businesses like restaurants or hospitals in any area, grab deep details on specific venues (like hours and phone numbers), and calculate accurate travel routes with estimated times of arrival. It's all built to let you talk about geography and logistics naturally.

A+ Quality Score 100/100

mapping | location-services | distance-matrix | spatial-analysis | navigation-data

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vinkius.com/mcp/google-maps

SCAN TO VIEW

# The infrastructure that powers AI agents in the real world.

Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

# Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

# Google Maps MCP

4 tools available
Cloud-hosted on Vinkius

This MCP lets your agent do anything location-related without opening a browser. Forget manually copying addresses or jumping between tabs just to check if a business is open or how long a drive takes. You give your AI client an address, and it instantly spits out the exact coordinates. Need to find the best Italian place near the office? It searches millions of spots, pulls up detailed info like reviews and phone numbers for the top candidates, and even calculates exactly how long you'll take to get there by car or bike. When building complex workflows, connecting this MCP via Vinkius gives your agent immediate access to one of the industry's most reliable data sources, making location analysis a part of natural conversation.

## Core Capabilities

**01 — Convert addresses to coordinates**

It translates any human-readable address or place name into precise latitude and longitude numbers.

**02 — Search for businesses by location**

The tool searches massive databases to find specific types of spots, like 'gyms near me' or 'coffee shops in Brooklyn', returning critical IDs needed for deeper research.

**03 — Retrieve deep venue metadata**

Using a spot's unique ID, you can pull detailed data—including opening hours, phone numbers, and user reviews—without running another search.

**04 — Calculate optimal travel routes**

It determines the best route between two points, giving you the total distance, estimated time of arrival (ETA), and options for driving, walking, or transit.

## One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/google-maps** — connect your AI agent in three steps.

01 First, subscribe to this MCP and input your Google Maps API Key into Vinkius.

02 Next, tell your AI client what you need—for instance, 'What's the route from Point A to Point B by train?'

03 Your agent uses the tools to pull location data, calculate the path, and present the full results directly in your chat window.

The bottom line is, you get real-time, actionable geographical intelligence right where you're talking to your AI client.

## Built For

Anyone who deals with physical locations or travel plans needs this. It’s for the logistics planner tired of opening multiple map tabs, the real estate analyst needing quick POI checks, and customer support staff who need to verify a client's address instantly.

**Logistics Coordinator**

Calculating optimal delivery routes and verifying ETAs for multi-stop shipments across different city zones.

**Real Estate Analyst**

Running large-scale searches to find nearby points of interest (POIs) or converting multiple client addresses into coordinates for mapping.

**Customer Support Agent**

Quickly looking up a customer's business address details, verifying its operating hours, or finding the nearest service center in real-time during a call.

## What Changes When You Connect

01 Stop guessing on travel times. The 'directions' tool calculates the optimal route, distance, and ETA for driving, walking, or transit, giving you immediate logistical answers.

02 No more manual address lookups. Use the 'geocode' tool to instantly convert any physical street address into precise coordinates (Lat/Lng) that your agent can use in further calculations.

03 Deep dive on venues: Instead of just finding a spot, the 'place_details' tool pulls rich metadata—phone numbers, reviews, and hours—to solve customer questions immediately.

04 Advanced searching is easy. The 'place_search' tool lets you ask for specific types of businesses (e.g., 'dentists in downtown') without knowing their exact coordinates first.

05 Flexibility matters. You can check travel logistics across multiple modes using the same tools, whether it's calculating a bike path or figuring out train connections.

## Real-World Applications

**Checking service coverage for a new client site**

A real estate agent needs to know if there are adequate resources nearby. They ask their agent, 'Are there hospitals and highly-rated coffee shops within a quarter mile of 123 Main St?' The agent uses 'place_search' multiple times to confirm the local amenity density before recommending the site.

**Planning an intercity team training trip**

The HR manager needs directions for a multi-day event. They ask, 'What's the fastest way from the hotel (Point A) to the conference center (Point B) by car?' The agent uses 'directions' and specifies 'driving mode,' giving an accurate ETA.

**Validating a client's business location data**

A support team member receives an old customer file with just an address. They use the 'geocode' tool first to get coordinates, then run 'place_details' using those coords to verify if the phone number or operating hours are still current.

**Finding the nearest specialized supplier**

An industrial buyer needs a specific type of equipment. They ask, 'Show me all plumbing supply stores near the facility and give me their best contact numbers.' The agent uses 'place_search' followed by retrieving details using 'place_details'.

# Patterns to Avoid

### Treating it like a standard search engine

✗ AVOID

Asking the agent to just 'find me pizza places in Brooklyn.' This only gives a list of names and basic info, lacking actionable depth.

✓ INSTEAD

First, use 'place_search' to find candidate locations. Then, specify that you need details for the top three using 'place_details' so you get hours, reviews, and phone numbers.

### Ignoring travel constraints

✗ AVOID

Simply asking 'How do I get from SF to SJ?' The agent might give a general distance without considering transport type.

✓ INSTEAD

Always specify the mode in your prompt. Use 'directions' and say, 'Calculate directions by train,' or 'Calculate directions for walking.' This forces the correct route calculation.

### Copying coordinates manually

✗ AVOID

Getting a vague address from a document and having to open Google Maps yourself just to find Lat/Lng values.

✓ INSTEAD

Use 'geocode' immediately. Provide the full street address, and your agent will return the precise coordinate pair (Lat: X, Lng: Y) for immediate use in other tools.

## The Right Fit

Use this MCP if your task revolves around physical location intelligence—if you need to know where something is, how far away it is, or what services are available at a given spot. Specifically, if you must translate an address into coordinates ('geocode'), find the best route between two points ('directions'), or pull deep business metrics like hours and phone numbers ('place_details'). Don't use this MCP if your goal is purely theoretical data analysis (like calculating tax rates) or managing internal CRM records; for those, you need a dedicated database connector. You should only rely on these tools when the input or output must be geographically grounded.

## Mapping out physical locations used to be a mess of clicks and tabs.

Today, if your job requires knowing where something is, you spend time jumping between Google Maps, Yelp, and internal CRM dashboards. You copy an address into the map tool, then click on it to get coordinates, then open a second tab to find its phone number, and finally, start a third search just to calculate the best route for your team. It's tedious, fragmented work.

With this MCP, all that happens in one conversation. You tell your agent the address, and it handles the geocoding automatically. If you need directions next, it uses that same coordinate data without any manual intervention. Your agent gives you a single, comprehensive answer.

## The Google Maps MCP gives you immediate access to location intelligence.

You eliminate the need for multiple manual lookups—no more going through generic search arrays just to find operating hours. The moment you ask about a place, the 'place_details' tool pulls everything needed: reviews, website links, and current operational status.

What changes is that your agent acts like an expert travel planner who already has access to all the world’s mapping data, saving you minutes of clicking and hours of frustration.

# Google Maps: 4 Tools Available

These four tools let your agent perform every location-based task, from converting a simple address into precise latitude/longitude coordinates to calculating complex, multi-mode travel routes.

| # | TOOL | DESCRIPTION |
|---|---|---|
| 01 | geocode | Converts any specific street address or location name into precise latitude and longitude coordinates. |
| 02 | place_search | Searches for types of businesses, like restaurants or hospitals, within a defined geographic area. |
| 03 | place_details | Retrieves specific information about a known location, such as its phone number, website, and opening hours. |
| 04 | directions | Calculates the best route between an origin and destination, providing distance, estimated time, and various travel mode options. |

# See It in Action

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

**U** Geocode this address: '1600 Amphitheatre Pkwy, Mountain View, CA'

Address geocoded! The coordinates for 1600 Amphitheatre Pkwy are Lat: 37.4223, Lng: -122.0841. These are the precise coordinates for the Googleplex headquarters.

**U** Find pizza restaurants in Brooklyn and show me details for the best one

Searching for pizza in Brooklyn... I found 10 results. The top-rated is 'L'Industrie Pizzeria' (Rating: 4.8, 2k+ reviews, PlaceID: abc-123). Retrieving details... They are open until 10 PM tonight and offer outdoor seating. Would you like their phone number?

**U** Get directions from San Francisco to San Jose by train

Calculating directions... By transit, the trip from San Francisco to San Jose takes approximately 1 hour and 15 minutes via Caltrain. Total distance is 48 miles. I can provide the specific line information and departure times for you.

# Frequently Asked Questions

01 **How does Google Maps MCP help with calculating routes?**

The 'directions' tool calculates the optimal route between two points. It considers transit mode (walking, driving, biking) and gives you the total distance and estimated travel time for your specific journey.

02 **What if I just have a street name and no numbers?**

You can use the 'geocode' tool. While it works best with full addresses, providing enough context (street name + city) usually allows it to pinpoint the general coordinates you need.

03 **Can I find a specific type of restaurant using Google Maps MCP?**

Yes. You use the 'place_search' tool and simply describe what you are looking for, like 'Mexican restaurants' or 'Italian pizzerias,' and it finds matching venues.

04 **Does place_details require a specific ID?**

Yes. To get deep details like phone numbers or opening hours, the 'place_details' tool needs the unique PlaceID of that location to ensure it pulls accurate data.

05 **Is Google Maps MCP limited to major cities only?**

The underlying platform supports millions of physical entities. You can search for and retrieve details about businesses in various metro areas, provided they are within the indexed Google Maps database.

# 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 `"google-maps": { "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

# Google Maps 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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