MCP SERVER | NO CODE | CLOUD HOSTED

Google Maps Platform MCP

Calculate Routes & Locate Anything on Earth

Google Maps Platform provides instant, authoritative location intelligence for any AI agent. Use this MCP to convert addresses into precise coordinates, calculate complex driving or walking routes, and find detailed information on businesses globally. It handles everything from getting the elevation at a coordinate point to calculating how long it takes to drive between multiple stops.

A+ Quality Score 100/100

geocoding | location-intelligence | routing | place-details | spatial-data

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026
vinkius.com/mcp/google-maps-platform

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 Platform MCP

9 tools available
Cloud-hosted on Vinkius

Need to know exactly where something is, or how to get there? This MCP connects your AI client directly to Google's global mapping data, giving you instant access to location intelligence. You can turn a street address into precise GPS coordinates using geocoding, or take those coordinates and figure out what physical address they belong to via reverse geocoding. Planning a multi-stop trip? Calculate the total distance and time required between origins and destinations with one call. It even finds nearby points of interest—like gas stations or restaurants—around any specific coordinate. All this deep location data, which typically requires multiple specialized APIs, is managed under one umbrella through Vinkius. You just connect your preferred AI client, and the agent handles all the complex mapping logic for you.

Core Capabilities

01 — Calculate Travel Routes

Determine driving, walking, cycling, or transit paths between two or more points.

02 — Pinpoint Coordinates from Addresses

Convert any physical street address into exact latitude and longitude coordinates.

03 — Get Business Details

Fetch specific, rich information for a known business location, including hours or phone numbers.

04 — Analyze Multiple Stops

Compare the travel time and distance between several separate origins and destinations at once.

05 — Identify Local Amenities

Search for specific types of businesses or points of interest near a given location.

06 — Determine Time Zones

Pull the correct time zone information required when scheduling events across different regions.

One Click on Vinkius — From Prompt to Execution

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

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

02 Second, prompt your AI client with the necessary location information (like two addresses or a starting point).

03 Third, the agent uses the available tools to process the request and returns precise data—be it coordinates, directions, or business details.

The bottom line is you give the AI what it needs, and it delivers validated location facts without manual API calls or complex code writing.

Built For

This MCP is for anyone whose job relies on accuracy regarding physical space. Think logistics managers who track fleets, real estate agents needing hyper-local market data, or developers building location-aware apps.

Logistics Coordinator

Calculating the most efficient sequence of stops for a delivery truck using get_distance_matrix to minimize fuel and time.

Real Estate Agent

Finding nearby amenities, like top-rated coffee shops or schools, around a potential listing address using search_nearby_places.

Travel Planner/Event Organizer

Determining the travel time and necessary resources for guests traveling from multiple airports to a single hotel using get_directions.

What Changes When You Connect

01 Get precise location data instantly. Instead of manually calling separate services for address lookups, use geocode_address to reliably convert any street address into usable GPS coordinates.

02 Plan complex itineraries easily. Calculate travel metrics between multiple stops at once using get_distance_matrix, saving you from writing complex loop logic in your agent code.

03 Determine the exact location and details of a business. After finding a place with find_place_from_text, use get_place_details to pull rich data like hours or phone numbers.

04 Build robust time-sensitive systems. Use get_timezone to ensure that any scheduling logic your agent runs respects local time differences across the globe.

05 Understand location context deeply. Need to know if a GPS coordinate is in Manhattan or rural upstate NY? reverse_geocode converts raw points back into clear, readable addresses.

Real-World Applications

Optimizing Delivery Routes

A fulfillment center manager needs to calculate the fastest route for 12 packages going to different zip codes. They ask their agent: 'What is the total time and distance if I start at the warehouse, hitting these 12 addresses?' The agent uses get_distance_matrix, instantly providing a measurable plan that saves hours of manual spreadsheet calculation.

Verifying Client Addresses

A sales team member gets an address from a prospect and needs to confirm it's real and find the exact coordinates. They run 'What are the GPS coordinates for 123 Main Street?' The agent uses geocode_address, immediately validating the location and giving them the necessary data points.

Scheduling Global Meetings

An event organizer is coordinating a panel with speakers in London, Tokyo, and New York. They ask: 'What time zone should I list for all three locations?' The agent uses get_timezone, providing accurate temporal data so the meeting invite makes sense globally.

Building Point-of-Interest Maps

A developer is building a local guide app and needs to populate it with nearby services. They ask: 'Show me all highly-rated Italian restaurants near these coordinates.' The agent uses search_nearby_places, delivering a filtered list of relevant businesses.

Patterns to Avoid

Assuming address data is enough

✗ AVOID

The user just passes in two addresses and expects the AI to give them driving directions. This fails because simple text doesn't contain coordinates.

✓ INSTEAD

First, run geocode_address on all starting and ending points to get precise GPS coordinates. Then, use get_directions with those coordinates to calculate the route.

Needing a specific business name

✗ AVOID

The user knows the company 'Acme Corp' but doesn't know its unique Place ID, so they can't fetch details.

✓ INSTEAD

First, use find_place_from_text to locate 'Acme Corp' and get its required Place ID. Only then should you run get_place_details using that specific ID.

Handling multiple routes manually

✗ AVOID

The agent has to call a directions API five separate times, once for each leg of the journey (A→B, B→C, C→D, etc.) and then compile all results.

✓ INSTEAD

For multi-stop trips, use get_distance_matrix. This tool handles multiple origins and destinations in one single request, giving you a comprehensive comparison.

The Right Fit

Use this MCP if your problem involves physical space: calculating distances, finding addresses, or locating businesses. For instance, if you need to know the best route from point A to point B, use get_directions. If you only have raw GPS numbers and need a street name, use reverse_geocode. Don't use it if your task is purely text manipulation; for example, if you just need to summarize an article or write code without any location context, this MCP won't help. Similarly, if you are building a database that requires type-safe data structures from the coordinates, look into dedicated schema validation tools rather than relying solely on the geography functions.

Pinpointing location data is always a mess of copy-pasting and assumptions.

Today, if you need to compare travel times for five different stops, you open five separate maps. You manually enter the addresses one by one. If you're building an app, you have to write complex code that calls multiple APIs, handles rate limits, and then pieces together a single result set.

With this MCP, your agent takes all those addresses or coordinates and uses get_distance_matrix in a single command. It instantly spits out the total travel time and distance for every leg of the journey, giving you one clean, actionable answer.

Get Location Details with get_place_details

The old way was finding a business name online, copying its address into an API search tool, waiting for the raw data packet, and then manually cross-referencing that ID to find hours or phone numbers. It's slow and fragile.

Now, your agent handles that entire sequence. You tell it the place you want information on, and using get_place_details, it gives you all the rich details—hours, ratings, reviews—in one go.

Google Maps Platform: 9 Tools for Location Intelligence

These nine tools allow your agent to perform any location-based task, from converting street addresses into GPS coordinates to calculating complex multi-stop travel itineraries.

#	TOOL	DESCRIPTION
01	`get_directions`	Calculates multi-mode routes, providing step-by-step instructions between two specified points.
02	`get_distance_matrix`	Compares the travel time and distance for multiple starting locations to multiple ending locations simultaneously.
03	`get_elevation`	Retrieves the altitude data for specific coordinates on Earth's surface.
04	`find_place_from_text`	Locates a place and provides its unique ID, which is necessary before retrieving detailed information about it.
05	`geocode_address`	Converts a readable physical address into precise GPS coordinates (latitude/longitude) and returns the formatted location name.
06	`search_nearby_places`	Finds businesses or points of interest, allowing filtering by category or keyword near specific coordinates.
07	`get_place_details`	Pulls detailed information about a single location using its unique Place ID, including reviews and operating hours.
08	`reverse_geocode`	Takes raw GPS coordinates and translates them back into a readable physical street address.
09	`get_timezone`	Determines the correct time zone for any given set of geographic coordinates, essential for scheduling.

See It in Action

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

U Find the address for 'Statue of Liberty'.

Statue of Liberty is located at Liberty Island, New York, NY 10004. Coordinates: 40.6892° N, 74.0445° W.

U Get directions from Times Square to Central Park.

Driving route: Distance: 2.5 miles, Duration: 12 mins. Walk route: Distance: 2.1 miles, Duration: 40 mins.

U Find coffee shops near 'Pike Place Market'.

Found 5 nearby: 1. Starbucks Reserve Roastery (4.8⭐). 2. Storyville Coffee (4.7⭐). 3. Cafe Campagne (4.5⭐).

Frequently Asked Questions

01 **How do I find coordinates using Google Maps Platform MCP?**

You use geocode_address. You simply provide a physical address string, and the tool returns the precise latitude/longitude coordinates along with a formatted street name.

02 **Can get_distance_matrix handle multiple stops?**

Yes, that's what it's for. It accepts origins and destinations separated by pipes (or lists them) to calculate travel time and distance across many locations at once.

03 **What if I only have GPS coordinates but need a street address?**

You run the reverse_geocode tool. This converts raw latitude/longitude data back into a human-readable, physical address string.

04 **Do I need a Place ID to get business hours?**

Yes, generally you do. You can use find_place_from_text first to locate the place and obtain the necessary unique Place ID before calling get_place_details.

05 **How does Google Maps Platform MCP help with time zones?**

You run get_timezone, passing in coordinates. It immediately tells your agent what time zone is active at that exact point on the map, which is critical for scheduling.

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-platform": { "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 Platform 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	June 2026
MCP Server	Google Maps Platform MCP
Server ID	`019d75a8-d9d7-7388-8214-5ae639b21062`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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