MCP SERVER | NO CODE | CLOUD HOSTED

Mapbox MCP

Plan routes, calculate distances, and map locations.

Mapbox MCP gives your AI client world-class location intelligence. It lets you convert addresses into precise coordinates, figure out driving routes between any two points, calculate travel times across multiple stops, and find nearby businesses instantly. Whether planning a complex delivery route or just needing to know the elevation at a specific spot, this connector handles all the geometry and mapping math so your agent can talk about location like a pro.

A+ Quality Score 98.33/100

geocoding | routing | spatial-data | mapping | location-services | navigation

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026
vinkius.com/mcp/mapbox

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.

Mapbox MCP

8 tools available
Cloud-hosted on Vinkius

Need to understand where something is, or how to get there? This MCP connects your AI client directly to Mapbox's full suite of geographical services. You stop struggling with separate tools for directions, coordinates, and map images. Instead, you ask your agent questions—like 'What are the fastest routes from downtown to the airport?'—and it handles everything. It converts addresses into structured data, calculates exact driving paths with turn-by-turn steps, and determines if an area is reachable within a certain time frame using tools like isochrones. All this complex location math works inside your agent's workflow. Because Vinkius hosts this connector, you connect once to the entire catalog and get immediate access to industry-leading mapping data.

Core Capabilities

01 — Find coordinates from addresses

It converts any place name or street address into precise latitude and longitude coordinates.

02 — Calculate routes and directions

The agent generates step-by-step instructions for driving, walking, or cycling between two points.

03 — Determine travel metrics between many stops

You can calculate the total distance and duration for multiple origins and destinations simultaneously.

04 — Find reachable areas (isochrones)

It shows a polygon of all locations accessible within a specific time or travel distance from a starting point.

05 — Generate map images on demand

You get a direct image URL for any location, perfect for including in reports or documents.

06 — Search for businesses nearby

The agent finds points of interest, like gas stations or restaurants, near specific coordinates.

One Click on Vinkius — From Prompt to Execution

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

01 Subscribe to this MCP on Vinkius and provide your Mapbox Access Token.

02 Connect the service using your preferred AI client (Claude, Cursor, etc.)

03 Ask your agent a location-based question; it executes the necessary tools and returns structured data or image URLs.

The bottom line is you never have to worry about API keys or coordinate formats again. You just ask for the map result.

Built For

This MCP is essential for anyone whose job revolves around physical location, travel planning, or asset movement. It solves the problem of manually stitching together coordinates and route data from multiple sources.

Logistics Manager

Determining optimal multi-stop delivery routes using get_distance_matrix and optimizing service areas with get_isochrone.

Field Service Coordinator

Finding the nearest point of interest or checking accessibility for a technician before sending them out, utilizing search_nearby.

Travel Planner/Researcher

Getting step-by-step directions between major landmarks and generating static map images to include in client reports.

What Changes When You Connect

01 Stop manually looking up addresses. Use geocode to turn any place name into coordinates instantly, giving your agent the foundational data it needs for every other task.

02 Optimize delivery logistics effortlessly. Instead of calculating routes one stop at a time, get_distance_matrix calculates travel times and distances between an entire list of origins and destinations in one go.

03 Generate professional reports with minimal effort. Use get_static_map to create ready-to-embed map image URLs that you can drop right into your documents without needing external mapping software.

04 Understand service coverage instantly. The get_isochrone tool shows exactly what area is reachable from a single point within a set time, which is crucial for assessing market reach or emergency response zones.

05 Improve field efficiency with local search. When checking on a site, use search_nearby to pinpoint the closest gas station or hardware store without opening a separate mapping app.

06 Know your ground truth coordinates. If you only have GPS numbers, reverse_geocode instantly tells you what street address those coordinates correspond to.

Real-World Applications

Determining the best warehouse placement

A logistics planner needs to know which of three potential sites minimizes travel time to all major client hubs. The agent uses get_distance_matrix to run a comparison matrix, providing quantifiable data points that dictate where the new warehouse should go.

Mapping out emergency response zones

A city planner needs to visualize the area covered by ambulances within a 10-minute drive of a central station. The agent uses get_isochrone, providing a clear polygon that defines the exact service boundary.

Building a travel guide for visitors

A marketing team needs to create an itinerary showing key landmarks and nearby dining options. They first use geocode to find coordinates, then search_nearby to populate the points of interest, finally using get_static_map to build visual maps.

Checking altitude for a construction site

An engineer needs to verify if excavation is possible at a specific set of GPS coordinates. The agent runs get_elevation to confirm the vertical data, which determines if specialized equipment is required.

Patterns to Avoid

Using separate tools for every coordinate lookup

✗ AVOID

Trying to use geocode and reverse_geocode separately when all you need is a simple address translation. This adds unnecessary steps and complexity.

✓ INSTEAD

If you have coordinates, just call reverse_geocode once; it handles the full process of translating numbers back into an actionable street address.

Manually calculating multi-stop routes

✗ AVOID

Trying to calculate travel time for 10 stops by opening a separate mapping app 9 times. This is slow, error-prone, and doesn't give the total picture.

✓ INSTEAD

Use get_distance_matrix. Feed it all ten start/end points into one call; it spits out the entire matrix of distances and durations you need.

Ignoring route profiles

✗ AVOID

Requesting general directions when your team only uses bikes or walks through a neighborhood, leading to inaccurate travel time estimates.

✓ INSTEAD

When getting_directions, always specify the profile (e.g., mapbox/walking or mapbox/cycling) so the agent provides accurate instructions for that mode of transport.

The Right Fit

Use this MCP if your core task involves understanding physical relationships in space: calculating travel times, defining boundaries, finding coordinates from addresses, or generating maps. It's your go-to tool for any logistics, real estate, or navigation project.

Don't use it if you just need to store or manage static address records; a dedicated database connector handles that better. Also, don't rely on it solely for finding general information about a place—if you just want 'the population of Paris,' you need a demographics tool, not geocode. However, if you *need* the coordinates of Paris to then calculate routes or find nearby restaurants, this MCP is exactly what you need.

Dealing with physical locations requires constant copy-pasting and cross-referencing.

Right now, if your agent needs to know the travel time from Point A to Point B across three different stops, you're stuck. You have to manually grab coordinates for every spot, then run a sequence of separate API calls for directions, and finally stitch all those times together in a spreadsheet.

With this MCP, you simply ask your agent to calculate the matrix. It handles the entire flow: taking input addresses, converting them via geocode, calculating the routes using get_distance_matrix, and returning one clean, comprehensive dataset that's ready for analysis.

---

get_static_map gives you a finished visual asset.

Before this MCP, generating a map for a report meant opening an external service, zooming in on the right area, and then taking a screenshot—a process that loses quality and takes forever. You'd have to repeat this for every single location you needed to highlight.

Now, your agent uses get_static_map. It accepts coordinates, dimensions, and zoom level as inputs, returning a perfect, high-quality image URL in seconds. The map is ready to be dropped into any document or presentation immediately.

Mapbox MCP: 8 Location Tools

These eight tools allow your agent to perform every type of spatial data operation, from simple address lookups to complex network analysis.

#	TOOL	DESCRIPTION
01	`geocode`	Converts a physical address or place name into precise coordinates, providing the necessary input for other tools.
02	`get_directions`	Calculates and returns detailed turn-by-turn instructions for driving, walking, or cycling between two points.
03	`get_distance_matrix`	Generates a table showing the travel time and distance between every combination of multiple locations.
04	`get_elevation`	Retrieves the vertical height data for any given pair of coordinates, useful for hiking or aviation planning.
05	`get_isochrone`	Maps out a specific service area polygon showing all locations reachable within a defined time limit or distance.
06	`get_static_map`	Creates and returns a direct image URL for any specified location and zoom level, ready for immediate use in documents.
07	`reverse_geocode`	Takes coordinates and immediately translates them back into a human-readable address format.
08	`search_nearby`	Searches for specific categories of points of interest—like hotels or restaurants—near given coordinates.

See It in Action

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

U Geocode '1600 Pennsylvania Ave, Washington DC'.

Found: The White House at 38.8977°N, 77.0365°W. Full address: 1600 Pennsylvania Avenue NW, Washington, DC 20500, United States. Place type: address. Bounding box provided.

U Get driving directions from San Francisco to Los Angeles.

Route from San Francisco to Los Angeles: 616 km (383 miles), estimated 5 hours 50 minutes via I-5 S. Step-by-step instructions include: Head south on Market St, merge onto US-101 S, continue on I-5 S to Los Angeles.

U Show me the area reachable within 15 minutes driving from Times Square, NYC.

Within 15 minutes driving from Times Square you can reach: most of Manhattan below 96th St, parts of Brooklyn (Williamsburg, DUMBO), Long Island City in Queens, and parts of the Bronx via the bridges. The isochrone polygon covers approximately 85 square km.

Frequently Asked Questions

01 **How does the Mapbox MCP handle multiple stops for directions?**

The get_distance_matrix tool lets your agent calculate travel time and distance between an entire list of origins and destinations in a single request. This is much better than running many separate direction calls.

02 **What if I only have coordinates and need the address? Mapbox MCP?**

You use reverse_geocode. It takes raw longitude and latitude pairs and translates them back into a full, readable street address, city, and state combination.

03 **Can I generate maps using the Mapbox MCP for reports?**

Yes, you can use get_static_map. It provides a direct image URL that is customizable in terms of zoom level and dimensions, making it perfect for embedding into reports.

04 **Does the Mapbox MCP only work for driving directions?**

No. The connector supports multiple travel modes through get_directions, including walking (mapbox/walking) and cycling (mapbox/cycling), giving you full flexibility for different types of routes.

05 **Is the Mapbox MCP useful for logistics planning?**

Absolutely. Its tools like get_distance_matrix and get_isochrone are built specifically for logistics, allowing you to optimize delivery paths and define service boundaries quickly.

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 `"mapbox": { "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

Mapbox 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

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Mapbox. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	June 2026
MCP Server	Mapbox MCP
Server ID	`019d8454-b5b1-73c1-9624-97cccbbe7a66`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/mcp/mapbox.