MCP SERVER | NO CODE | CLOUD HOSTED

ZIP Codes API MCP

Audit location boundaries and calculate precise distances.

ZIP Codes API lets your AI client audit location data across US and Canadian ZIP codes. Need to find all addresses within a 10-mile radius? Calculate the exact distance between two locations, or pull demographic details for any specific postal code? This MCP gives you precise geographic intelligence right where you need it.

A+ Quality Score 100/100

geographic-data | radius-search | distance-calculation | location-metadata | logistics-optimization | address-validation

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026
vinkius.com/mcp/zip-codes-api

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.

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.

ZIP Codes API MCP

6 tools available
Cloud-hosted on Vinkius

Stop guessing about where things are located. This MCP lets your agent treat complex location auditing like a simple conversation. Whether you're doing market research across state lines or optimizing regional delivery routes, you don't need to open a dozen tabs and cross-reference spreadsheets. You just ask the question—like, 'What ZIP codes surround this county?'—and get verified, detailed data back immediately. It pulls everything from finding all related locations in a specific city, calculating precise distances between any two points, or even identifying all addresses within a certain mileage radius of your starting point. When you connect this to Vinkius, you bring professional-grade geographic consulting right into your chat window, making sure every piece of location data is accurate and immediately actionable.

Core Capabilities

01 — Determine ZIP codes by region

Finds all associated postal codes based on a given city name, county boundary, or state.

02 — Calculate location distance

Provides the precise mileage calculation between any two specified ZIP codes.

03 — Identify nearby addresses

Searches and lists all relevant ZIP codes within a specific mile radius of a starting point.

04 — Get deep location details

Retrieves comprehensive geographic, demographic, and metadata information for one single ZIP code.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/zip-codes-api** — connect your AI agent in three steps.

01 Subscribe to this MCP and enter your required Zip-codes.com API Key.

02 Connect the MCP to your preferred AI client (Claude, Cursor, etc.).

03 Ask your agent a location question, like 'What is the distance between X and Y ZIP codes?' and receive verified data.

The bottom line is you talk to it naturally, and it handles all the complex database lookups for location intelligence.

Built For

This MCP is essential for anyone who deals with physical locations: logistics planners needing route optimization, market analysts mapping demographic clusters, or sales teams auditing lead addresses. You're tired of calling external data services just to cross-check boundaries—you need immediate accuracy.

Logistics Manager

Needs to calculate the exact distance between multiple delivery zones and verify if a new route falls within existing ZIP code boundaries.

Market Researcher

Must audit demographic distributions by identifying all potential market clusters around a target city or county without manual searches.

Sales Operations Lead

Performs rapid lead audits, checking nearby ZIP codes and verifying if a prospect's location falls within the service radius.

What Changes When You Connect

01 Eliminate manual lookups. Instead of opening multiple tabs to find nearby zones, using 'find_zips_in_radius' instantly identifies all ZIP codes within a set mileage from any starting point.

02 Achieve perfect accuracy for planning. Calculating the exact distance between two locations with 'get_zip_distance' eliminates guesswork when optimizing routes or estimating travel time.

03 Deepen your research quickly. With 'get_zip_details', you pull rich metadata, including county and state information, for any given ZIP code in a single query.

04 Map out regional opportunities effortlessly. Need to know what's available? Use 'find_zips_by_county' or 'find_zips_by_city' to get a complete list of addresses associated with a defined area.

05 Keep your data organized by scope. Whether you need all ZIP codes for an entire state ('find_zips_by_state') or just those tied to one county, the right tool gets you there instantly.

Real-World Applications

Determining Service Area Boundaries

A regional sales manager needs to know if a new client address is within their current service zone. They ask the agent to 'find_zips_in_radius' around the target location, immediately confirming coverage without consulting a map or calling an analyst.

Optimizing Delivery Routes

A logistics coordinator needs to estimate total travel distance for two far-flung warehouses. They use 'get_zip_distance' with the two starting ZIP codes, getting the precise mileage needed for fuel budgeting and scheduling.

Analyzing Local Market Density

A market researcher is looking at a specific county to see potential retail locations. They use 'find_zips_by_county' to gather a complete list of all available ZIP codes in that area for deep demographic analysis.

Validating Lead Locations

An operations lead receives a batch of leads from a new state. They use 'find_zips_by_state' to ensure they capture all relevant postal code data before passing the list to the sales team.

Patterns to Avoid

Using general map searches for codes

✗ AVOID

Asking your agent a vague question like, 'What are the ZIP codes near downtown?' This often yields incomplete or unverified results from generic mapping services.

✓ INSTEAD

Be specific. Use 'find_zips_in_radius' and provide the starting postal code and the exact mileage you need to search.

Manually checking distances

✗ AVOID

Copying two ZIP codes into a third-party distance calculator that might use outdated road data or incomplete coordinates.

✓ INSTEAD

Use 'get_zip_distance'. It calculates the specific, verifiable mileage between any two postal codes.

Assuming single location details

✗ AVOID

Thinking a ZIP code only represents one city center. This leads to incomplete regional data for market analysis.

✓ INSTEAD

Use 'get_zip_details' first to get the basic facts, then use 'find_zips_by_city' or 'find_zips_in_radius' to capture the full geographic distribution.

The Right Fit

Use this MCP if your job requires verifying precise physical locations, calculating accurate distances between postal codes, or auditing regional boundaries using established US/Canadian data. It is built for logistics and market intelligence that demands accuracy down to the ZIP level.

Don't use it if you are dealing with abstract concepts, historical records without geographic context, or global coordinates outside of North America. If your goal is simply to read general textual information about a city (e.g., population history), this MCP won't help. You need location data; period.

The Headache of Manual Location Verification

Today, checking a simple regional boundary is a pain. You open Google Maps for an area, then you jump to a state website for the county list, and maybe you need to pull another spreadsheet just to get coordinates. Then, if you want to know how far two points are, you have to copy those numbers into a third tool that might use old road data. It's slow, it requires four or five different logins, and half the time, your results aren't standardized.

With this MCP, all of that vanishes. You ask the agent for an audit, specifying what type of boundary you care about—by city, county, or radius—and instantly get a clean, comprehensive list of verified ZIP codes right in your chat window.

Get Complete Geographic Context with ZIP Codes API

You no longer have to juggle multiple systems. Finding all relevant areas used to mean cross-referencing the county list, then checking the city boundaries for overlap, and finally manually calculating distances between the endpoints.

Now, you just ask your agent what's in the radius around a point, or what ZIP codes share a state. It’s immediate, accurate, and keeps all the data talking to each other.

ZIP Codes API: 6 Geographic Data Tools

These tools let you perform precise geographic queries, such as finding ZIP codes by state or calculating the exact distance between two points.

#	TOOL	DESCRIPTION
01	`find_zips_by_city`	Looks up all associated postal codes given a specific city and state name.
02	`find_zips_by_county`	Retrieves every ZIP code located within a specified county boundary.
03	`find_zips_by_state`	Lists all available postal codes for an entire state.
04	`get_zip_distance`	Calculates and returns the precise distance in miles between two specific ZIP codes.
05	`find_zips_in_radius`	Identifies all ZIP codes that fall within a specified mile radius of a starting postal code.
06	`get_zip_details`	Pulls comprehensive geographic and demographic data for one specific, single ZIP code.

See It in Action

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

U Get details for ZIP code '90210' using ZIP Codes API.

I've retrieved the details for 90210! It corresponds to Beverly Hills, California. It is located in Los Angeles County. Would you like the geographic coordinates or other ZIP codes in this city?

U Find all ZIP codes within a 10 mile radius of '10001' (New York).

I've identified 50+ ZIP codes within a 10 mile radius of 10001. Notable areas include parts of Manhattan, Brooklyn, and Jersey City. I can provide the distance from the starting point for each if you'd like.

U Calculate the distance between '10001' and '90210'.

The distance between New York (10001) and Beverly Hills (90210) is approximately 2,445 miles. I can assist you with more distance auditing if needed.

Frequently Asked Questions

01 **How do I find all associated postal codes for a specific county using ZIP Codes API?**

You use the 'find_zips_by_county' tool. Just provide the name of the county, and the MCP will return every single ZIP code registered in that boundary.

02 **Can I calculate distance between two points with ZIP Codes API?**

Yes, you use 'get_zip_distance'. You simply feed it the two ZIP codes, and it returns the precise mileage between them.

03 **Does this MCP handle international locations?**

No. This API is specialized for United States and Canadian ZIP code data only. It won't work with addresses from other countries.

04 **How do I check what's within a 10-mile radius of my office using ZIP Codes API?**

You use 'find_zips_in_radius'. You provide your starting ZIP code and the specific mile radius (e.g., 10), and it lists all related addresses.

05 **What kind of data do I get when using get_zip_details?**

You get comprehensive details, including city names, state information, county boundaries, latitude, and longitude coordinates for that specific ZIP code.

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 `"zip-codes-api": { "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

ZIP Codes API 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	ZIP Codes API MCP
Server ID	`019d84a3-88ba-72b4-87a4-719966e26cab`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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