

MCP SERVER

NO CODE

CLOUD HOSTED

NYC Housing & Buildings MCP

Get direct access to New York City building and maintenance records.

NYC Housing & Buildings (HPD) provides your agent with direct access to New York City's housing maintenance and building records. You can pull HMC complaints, NYCHA violations, housing litigation, and vacate orders without needing an API key. It works with any MCP-compatible client like Claude, Cursor, or Windsurf.

A+ Quality Score 98.33/100

new-york

nyc

housing

hpd

hmc

vacate-orders



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.

NYC Housing & Buildings (HPD) MCP

8 tools available

Cloud-hosted on Vinkius

You can query real-time New York City housing and building maintenance data through your AI client. This MCP connects you to HPD records, including maintenance complaints, litigation cases, and vacate orders. If you are researching property history or checking for active violations, you can pull specific data on HMC problem codes, NYCHA hazard classes, or DOB open-market order charges. The data is structured to handle large datasets, such as the HPD complaints and litigation tables, by using date windows or specific filters to keep your queries fast. You can also check on building jurisdiction programs or identify buildings equipped with HPD heat sensors. It is a direct way to bring NYC's massive public housing datasets into your local development or research environment.

Core Capabilities

01 — Complaint Tracking

Your agent can pull specific HMC complaints and rank them by problem code.

02 — Legal Record Access

Your AI client can search housing litigation cases and judgment text.

03 — Violation Monitoring

You can check for NYCHA violations and HPD vacate orders.

04 — Building Program Lookup

Your agent can verify a building's jurisdiction and management program status.

05 — Heat Sensor Identification

You can list buildings that have active HPD heat sensors by borough.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/nyc-housing-buildings-hpd — connect your AI agent in three steps.

- 01 Subscribe to the NYC Housing & Buildings MCP on Vinkius.
- 02 Connect your client, such as Claude or Cursor, to the Vinkius host.
- 03 Ask your AI client to search for specific building data or complaint trends.
- 04 The agent executes the corresponding tool to pull data from NYC Open Data.
- 05 Review the structured results directly in your chat or code editor.

Connecting to this data is a single-step process that brings NYC's housing records into your AI client.

Built For

This MCP is built for professionals working with New York City property and regulatory data.

Housing Researchers

Use the agent to aggregate complaint trends and problem code rankings.

Property Due Diligence Teams

Check building histories, litigation, and vacate orders during acquisitions.

Code Enforcement Officers

Query specific violations and HPD orders for targeted inspections.

Urban Policy Analysts

Analyze housing maintenance patterns and heat sensor deployment across boroughs.

What Changes When You Connect

- 01 Access NYC Open Data without managing API keys.
- 02 Query massive datasets using pre-set time windows to ensure fast responses.
- 03 Directly connect housing records to your existing AI coding or research environment.
- 04 Filter complex litigation and complaint data using natural language prompts.

Real-World Applications

Property Risk Assessment

Check a specific building for recent vacate orders or outstanding HMC complaints before a purchase.

Trend Analysis

Identify which heating or plumbing issues are most prevalent in a specific borough over a 90-day period.

NYCHA Compliance Check

Search for specific hazard classes and inspection dates within NYCHA developments.

Litigation Research

Pull legal case statuses and judgment text for specific respondents in housing court.

Patterns to Avoid

Broad litigation searches

❌ AVOID

Asking your agent to find all housing litigation in New York City without any filters.

✓ INSTEAD

Use specific identifiers like a building ID or respondent name with `search\_housing\_litigations` to keep the query manageable and fast.

Unfiltered complaint queries

❌ AVOID

Trying to pull every HMC complaint ever recorded to find recent issues.

✓ INSTEAD

Stick to the default 90-day window or set a specific timeframe using `search\_hmc\_complaints` to avoid hitting massive dataset bottlenecks.

Vague property status checks

❌ AVOID

Asking if a building is under any special city oversight or program.

✓ INSTEAD

Use the DOB building ID with `lookup\_building\_programs` to get a clear answer on management and jurisdiction status.

The Right Fit

Real estate analysts and urban researchers should connect this MCP to automate property due diligence. General users without a specific need for NYC housing or NYCHA data will find it unnecessary. The decision rests on whether you need to pull live HPD records into an AI workflow instead of manually clicking through city websites.

NYC HPD Data Access: 8 Specialized Tools for Building Research

These tools provide direct access to HPD maintenance records, litigation history, and NYCHA violation data. You can query specific building programs or analyze citywide complaint trends through your AI client.

#	TOOL	DESCRIPTION
01	list_heat_sensor_buildings	This tool lists buildings equipped with HPD heat sensors. You can filter the results by borough or current status to find specific locations.
02	lookup_building_programs	Use this to check a building's jurisdiction program status. You need the DOB building ID to get the management program and record status.
03	search_hmc_complaints	This tool searches HPD Housing Maintenance Code complaints. It uses a 90-day window by default to manage the large volume of complaint data.
04	search_housing_litigations	This tool searches through housing litigation cases. You can filter by case type, status, respondent, or building ID to find specific legal records.
05	search_nycha_violations	Use this to find NYCHA HMC violations. It provides details on hazard classes and inspection dates for specific developments.
06	search_omo_charges	This tool searches DOB open-market order charges. It returns award amounts, work types, and lifecycle stages for specific buildings.
07	search_vacate_orders	This tool searches for HPD repair and vacate orders. It returns the reason for a vacate order, the type, and the number of units affected.
08	top_hmc_problem_codes	This tool identifies the most frequently reported HMC problem codes within a specific time window, up to 365 days.

See It in Action

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

U What are the most common HMC complaint codes in the past 90 days?



The `top_hmc_problem_codes` tool with a 90-day window shows the most reported codes ranked by complaint count.

U Find open HMC complaints about heat and hot water in Manhattan.



Using `search_hmc_complaints` with Manhattan as the borough, Heat & Hot Water as the category, and an OPEN status returns the relevant records.

U Which buildings participate in the HPD heat-sensor program?



The `list_heat_sensor_buildings` tool returns active buildings, including their unit counts, program start dates, and coordinates.

Frequently Asked Questions

01 Do I need an API key to use this NYC housing data?

No. Vinkius hosts the connection, so you can use these tools without managing your own API keys.

02 How recent is the HMC complaint data?

The `search_hmc_complaints` tool defaults to a 90-day window, but you can adjust this window up to 365 days.

03 Can I search for specific buildings?

Yes. You can use the building ID or address to look up jurisdiction programs, OMO charges, or litigation cases.

04 Is the data from official sources?

Yes. This MCP pulls data from NYC Open Data, including HPD and DOB records.

05 Which AI tools can I use with this MCP?

You can use this with any MCP-compatible client, including Claude, Cursor, and Windsurf.

06 Do I need an API key?

No. NYC Open Data serves all public datasets anonymously over its SODA API (data.cityofnewyork.us). This MCP defines no credentials and needs nothing configured.

07 Why do HMC complaint searches use a date window?

The HPD HMC complaints table is very large, so `search_hmc_complaints` applies a received-date window by default (90 days back; pass after to shift it) and `top_hmc_problem_codes` ranks codes over a days window (90 by default, max 365). The other datasets are small and need no window.

08 Which borough values do the housing datasets use?

They differ per dataset: HMC complaints store boroughs in UPPERCASE ("MANHATTAN"), the OMO charge table in title case ("Brooklyn"), and vacate orders use two-letter codes ("BK"). Text filters are case-insensitive partial matches, so "manhattan" works in the HMC table.

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>"nyc-housing-buildings-hpd": { "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

NYC Housing & Buildings (HPD) 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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