

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

NYC Schools & Education MCP

Direct access to NYC Department of Education data for your agent.

NYC Schools & Education MCP provides keyless access to New York City Department of Education records. Your AI client can pull school quality metrics, chronic absenteeism statistics, enrollment capacity, and high school performance data using 6-digit DBN identifiers. It works with any MCP-compatible client like Claude, Cursor, or Windsurf.

A+ Quality Score 100/100

new-york

nyc

schools

doe

attendance

absenteeism



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 Schools & Education MCP

6 tools available

Cloud-hosted on Vinkius

You can pull specific NYC Department of Education records directly into your AI workflow. Instead of hunting through web portals, you use this MCP to query school quality metrics, attendance trends, and enrollment capacity. You can look up specific high school performance ratings or browse the public high school directory by borough. Most data is tied to the 6-digit District Borough Number (DBN), such as 04M479. This tool covers attendance data from the 2016-17 school year through 2022-23, while school quality report years span from 2016 to 2025. It is built for anyone needing hard numbers on NYC school performance, equity, or capacity without managing complex API credentials.

Core Capabilities

01 — Attendance Analysis

Your agent can compare chronic absenteeism rates between specific schools or across the entire city.

02 — School Quality Audits

Your AI client can pull specific performance metrics and benchmark percentages for individual schools.

03 — Capacity Planning

Your agent can check enrollment versus target capacity at the building, organization, or district level.

04 — High School Research

Your AI client can browse high school directories and pull specific performance guides for individual campuses.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/nyc-schools-education — connect your AI agent in three steps.

- 01
- Connect your MCP-compatible client to Vinkius.
- 02
- Select the NYC Schools & Education MCP from the catalog.
- 03
- Ask your agent a question using a school name or DBN.
- 04
- The agent executes the corresponding tool to fetch live data.
- 05
- Receive the raw metrics or statistics directly in your chat interface.

Connecting to this MCP gives your AI client immediate access to NYC DOE datasets.

Built For

This MCP is built for professionals who need to query NYC education data without manual data scraping.

Education Researchers

They hand off data aggregation and trend analysis tasks to their agent.

Journalists

They use the agent to quickly pull school performance or absenteeism stats for reporting.

Equity Analysts

They task their agent with finding discrepancies in school quality or enrollment capacity.

What Changes When You Connect

- 01
- Access NYC DOE data without needing an API key.
- 02
- Query specific school metrics using 6-digit DBN identifiers.
- 03
- Pull historical attendance data spanning multiple school years.

04 Get building-level enrollment and utilization stats.

Real-World Applications

Tracking Absenteeism Trends

An analyst uses the agent to compare school-specific chronic absenteeism against citywide averages.

High School Selection

A researcher queries high school performance ratings and demographics for specific DBNs.

Capacity Audits

A district planner checks building utilization and enrollment targets via the agent.

Metric Comparison

A journalist pulls specific School Quality Report metrics for multiple schools to compare performance.

Patterns to Avoid

Vague school searches

❌ AVOID

Asking your agent to find 'good schools in Brooklyn' without any specific identifiers.

✓ INSTEAD

Use the 6-digit DBN for precise results or use `list\_high\_schools` to filter by borough first.

Broad capacity queries

❌ AVOID

Requesting a general overview of all school enrollment across the entire city at once.

✓ INSTEAD

Target specific locations by using `search\_enrollment\_capacity` with a building name or district.

Outdated metric requests

❌ AVOID

Trying to pull school quality reports for years that fall outside the 2016 to 2025 range.

✓ INSTEAD

Stick to the supported report years and use `search\_school\_quality\_metrics` to find valid data points.

The Right Fit

Connect this MCP if you need hard NYC DOE numbers for research, journalism, or district planning. Do not connect it if you are looking for real-time student data or private individual records. The decision depends on whether you need official Department of Education metrics via DBN identifiers.

NYC Schools & Education 6 Available Tools

Access specific NYC Department of Education records, from high school performance guides to citywide attendance trends.

#	TOOL	DESCRIPTION
01	get_high_school_performance	This tool pulls 2019-20 School Quality Guide ratings for a specific high school. It provides enrollment, survey ratings, ELA and Math benchmarks, and demographic shares using a DBN.
02	get_citywide_absenteeism	This tool returns citywide chronic absenteeism and attendance statistics. It provides end-of-year data broken down by grade and category for a specific school year.
03	get_school_chronic_absenteeism	This tool retrieves attendance and chronic absenteeism data for a single school. It breaks down total days, attendance rates, and chronic-absent counts by grade and category via DBN.
04	list_high_schools	This tool provides a directory of NYC DOE public high schools. You can filter the results by borough or partial school name.
05	search_enrollment_capacity	This tool checks building and organization enrollment capacity and utilization. You can filter by district, organization name, or building name.
06	search_school_quality_metrics	This tool searches NYC DOE School Quality Report metrics. You can find specific data points by using a school name or DBN, and filter by report year or metric variable.

See It in Action

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

U Show me the chronic absenteeism for school 04M479 in 2020-21.



get_school_chronic_absenteeism with dbn: "04M479" and year: "2020-21" returns the end-of-year attendance and chronic-absent rows for that school, broken down by grade and category.

U What metrics did a school report in 2024?



search_school_quality_metrics with the dbn (or a school name) and report_year: "2024" returns each metric row with its display name, value and student count.

U What is the citywide chronic absenteeism rate?



get_citywide_absenteeism returns the citywide end-of-year attendance and chronic-absent statistics by grade and category.

Frequently Asked Questions

01 Do I need an API key to use this?

No. This MCP provides keyless access to the NYC Department of Education records.

02 How do I identify a specific school?

You should use the 6-digit District Borough Number (DBN), such as 04M479, to ensure accuracy.

03 What years of attendance data are available?

Attendance data covers school years from 2016-17 through 2022-23.

04 Can I filter high schools by location?

Yes. You can filter the high school directory by borough or by a partial school name.

05 Which AI clients can use 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 How are schools identified?

By their 6-digit DBN code (e.g. "04M479"). `get_school_chronic_absenteeism` and `get_high_school_performance` require the DBN; the other tools can search by school name (partial match).

08 What year formats do the education datasets use?

School Quality Reports use 4-digit report years (2016–2025). Attendance and absenteeism datasets use school years in "YYYY-YY" form ("2016-17" through "2022-23"). The high school directory and the performance ratings are the 2019-20 editions.

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-schools-education": { "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 Schools & Education 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

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Endpoint	https://edge.vinkius.com/{token}/mcp

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