MCP SERVER | NO CODE | CLOUD HOSTED

Google Air Quality MCP

Environmental Intelligence for Any Location

Google Air Quality MCP connects your AI agent to hyper-local environmental intelligence from Google. Get real-time readings for the Universal Air Quality Index (UAQI) anywhere on Earth, identify specific pollutants like PM2.5 and O3, and access up to 720 hours of historical data for trend analysis. It provides actionable health advice based on current conditions—perfect for building environmental monitoring tools or planning outdoor events.

A+ Quality Score 100/100

air-quality-index | environmental-data | pollution-monitoring | geospatial-intelligence | health-advisory

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vinkius.com/mcp/google-air-quality

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 Air Quality MCP

2 tools available
Cloud-hosted on Vinkius

This MCP gives your AI client a dedicated environmental consultant. You can ask it about the air quality at any latitude and longitude, getting instant access to Google's massive dataset. Instead of guessing whether an area is safe for kids or elderly people, you get tailored health advice based on current conditions. Your agent reads the Universal Air Quality Index (UAQI) and tells you exactly what pollutants are dominant—whether it's nitrogen dioxide or fine particulate matter. It doesn't just give a number; it gives context. You can pull in decades of historical air quality data to track how pollution changes over weeks or months, making it invaluable for researchers or real estate pros doing due diligence. By connecting this capability through Vinkius, you stop relying on fragmented weather APIs and start getting true environmental intelligence right where your AI agent works.

Core Capabilities

01 — Check Current Air Quality

Get the live Universal Air Quality Index (UAQI), along with a breakdown of dominant pollutants, for any specific location.

02 — Analyze Historical Trends

Pull air quality data going back up to 720 hours so you can track pollution patterns and changes over long periods.

03 — Determine Pollutant Concentrations

Identify the precise levels of specific pollutants, such as PM2.5 or NO2, at a given set of coordinates.

04 — Generate Health Advisories

Receive specialized health recommendations for sensitive groups like children and the elderly based on the current AQI rating.

One Click on Vinkius — From Prompt to Execution

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

01 Subscribe to this MCP and enter your Google Maps API Key, making sure the Air Quality API is enabled.

02 Your AI client sends a request with specific coordinates (latitude/longitude) and desired time frame.

03 The system processes the request using Google's data layer and returns structured environmental metrics, health advice, and pollutant concentrations to your agent.

The bottom line is that you get reliable, actionable air quality intelligence delivered directly into your AI workflow.

Built For

This MCP is for anyone whose job depends on knowing the true environmental conditions of a physical location. Think urban planners, public health officials, and people who manage outdoor logistics.

Real Estate Developer

Uses the tool to provide potential buyers with detailed environmental reports for specific property parcels, proving air quality stability.

Outdoor Event Planner

Checks real-time and historical data before large festivals or sports events to ensure air quality meets safety guidelines for attendees.

Environmental Consultant

Builds reports that track pollution changes over months, giving clients a clear picture of local air quality trends using specific pollutant breakdowns.

What Changes When You Connect

01 Get instant, actionable health advice. Instead of just seeing a number, your agent tells you if children or the elderly should avoid prolonged outdoor activities based on the UAQI.

02 Track long-term environmental changes using get_air_quality_history. You can pull 720 hours of data to show clients how pollution levels change seasonally—a huge win for researchers.

03 Pinpoint specific contaminants. The tool doesn't just say 'poor air'; it identifies the dominant pollutant, like PM2.5 or O3, letting you solve a highly targeted problem.

04 Verify outdoor event safety before they start. Use get_current_air_quality to check live conditions for festivals, ensuring your planning is responsible and data-driven.

05 Streamline environmental reporting. You can feed historical pollutant breakdowns directly into reports without manual copy/pasting from multiple sources.

Real-World Applications

Assessing a New Neighborhood

A real estate agent needs to prove the air quality of an old industrial park has improved. They ask their agent to run get_air_quality_history for the last 12 months, tracking pollutant levels like NO2 and PM2.5 to build a compelling environmental report.

Planning a Marathon Route

An event organizer is worried about peak pollution during a marathon. They use get_current_air_quality on the planned route coordinates moments before the event starts, getting immediate health advice and pollutant confirmation for safety protocols.

Researching Urban Policy

A sustainability researcher wants to build a model showing how air quality reacts to traffic changes. They use get_air_quality_history to pull detailed hourly data spanning months, providing the raw metrics needed for complex analysis.

Managing an Outdoor Festival

A park manager needs immediate confirmation that current conditions are safe. They ask their agent using get_current_air_quality and receive a UAQI score, the dominant pollutant, and specific advice for vulnerable populations.

Patterns to Avoid

Using general weather APIs

✗ AVOID

Assuming that because the forecast says 'clear skies,' the air is safe enough for a large gathering. These tools only predict temperature, not pollution.

✓ INSTEAD

Check real-time data using get_current_air_quality to get the UAQI and specific pollutant breakdown (PM2.5). This confirms actual atmospheric safety.

Relying on single-point snapshots

✗ AVOID

Only checking air quality once a day, which means missing critical trends or spikes in pollution.

✓ INSTEAD

Use get_air_quality_history to pull data over weeks or months. This reveals the true pattern of environmental risk, not just a single point.

Ignoring pollutant type

✗ AVOID

Simply looking for 'bad air' without knowing *why* it's bad—is it smoke (PM2.5) or traffic fumes (NO2)?

✓ INSTEAD

The MCP provides a full Pollutant Breakdown, allowing you to diagnose the exact source of poor air quality and recommend targeted mitigation strategies.

The Right Fit

Use this MCP if your workflow requires concrete environmental metrics tied to location. You need to know *why* the air is bad (PM2.5 vs. O3) and how that impacts specific demographics, not just a general rating. If you are building a system that calculates risk for outdoor activity or needs historical validation for a sale, this is mandatory. Don't use it if your goal is simply to know 'what the weather will be.' For basic temperature forecasts, a simple weather API works fine. But if you need actionable air quality intelligence—like what get_air_quality_history provides for trend analysis or the specific health advice from get_current_air_quality—this MCP is necessary.

It's hard to prove environmental safety without mountain of data.

Right now, if you need to validate a property or plan an event, the process is fragmented. You pull one report for temperature from one provider, and then you have to manually search another dashboard for general pollution metrics. Copying and pasting those disparate data points into a final presentation is time-consuming and prone to errors.

With this MCP, your agent pulls all environmental details—the current UAQI, the dominant pollutants, and historical trends up to 720 hours—into one conversation stream. You get a single source of truth that allows you to write definitive reports instantly.

Google Air Quality MCP delivers comprehensive environmental intelligence.

You don't have to cross-reference multiple government sites or pay for several specialized APIs. All the crucial data, from current readings via get_current_air_quality to multi-month trend reports using get_air_quality_history, is unified.

The result is a single conversation flow that gives you verifiable metrics and actionable health advice, making your final output authoritative every time.

Google Air Quality: Accessing 2 Tools

These two tools let your agent check the immediate pollution levels or pull extensive historical records to analyze air quality trends over time.

#	TOOL	DESCRIPTION
01	`get_air_quality_history`	Retrieves comprehensive environmental data for a location across a specified time range, useful for trend analysis.
02	`get_current_air_quality`	Fetches the immediate Universal Air Quality Index and pollutant breakdown using your current coordinates.

See It in Action

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

U What is the air quality in San Francisco right now?

Retrieving data from Google Air Quality... The current UAQI in San Francisco is 82, which is 'Excellent'. The dominant pollutant is O3. No health restrictions are currently recommended for the general public.

U Show me the air quality history for Tokyo for the last 24 hours.

I've retrieved the hourly history for Tokyo. The AQI peaked at 65 around 8 AM but has since improved to 78. I can provide the exact pollutant concentrations for each hour if you'd like.

U Are there any health warnings for Beijing today?

Analyzing Beijing's conditions... The UAQI is currently 32, categorized as 'Poor'. Dominant pollutant is PM2.5. For children and elderly, it is recommended to avoid prolonged outdoor activities. Would you like the full set of health recommendations?

Frequently Asked Questions

01 **What pollutants does Google Air Quality help me track?**

It tracks several key pollutants, including PM2.5, NO2, O3, and others. The MCP breaks down the dominant pollutant so you know exactly what's affecting the local air.

02 **How far back can I check air quality history with Google Air Quality?**

The tool supports retrieving up to 720 hours of historical data, which is enough for comprehensive trend analysis over several weeks. Use get_air_quality_history for this.

03 **Can I use the Google Air Quality MCP for a single city or multiple cities?**

The MCP uses coordinates (latitude/longitude) for pinpoint accuracy. You can query different locations by changing the input coordinates for your agent's request.

04 **Does this MCP provide health warnings?**

Yes, beyond the UAQI number, it provides tailored health advice—specifically noting recommendations for sensitive groups like children and the elderly based on current pollutant levels.

05 **Which tool do I use for a live check? Google Air Quality MCP**

You should use get_current_air_quality. This function fetches the immediate UAQI score, pollutant breakdown, and real-time health advice for your specified location.

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-air-quality": { "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 Air Quality 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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