MCP SERVER | NO CODE | CLOUD HOSTED

QWeather MCP

Environmental Data on Demand, Conversational Flow.

QWeather / 和风天气 provides professional environmental monitoring and forecasting, giving your AI client instant access to real-time air quality indices, detailed weather forecasts up to 15 days out, and specialized life index data. It lets you run complex location searches and audit severe weather warnings—all through a simple conversation with your agent.

A+ Quality Score 100/100

weather-forecast | environmental-data | air-quality | life-indices | real-time-data | api-integration

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vinkius.com/mcp/qweather

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.

QWeather / 和风天气 MCP

10 tools available
Cloud-hosted on Vinkius

Stop switching between climate websites and environmental dashboards just to check the forecast. This MCP connects your AI client directly to QWeather's commercial platform, turning massive amounts of meteorological data into plain English answers. You can ask your agent for current air quality in Shanghai, or compare the 7-day weather outlook against the predicted UV index—all without knowing an API call. It functions as a unified environmental consultant, giving instant insights into everything from PM2.5 levels to whether you need sunscreen today. By connecting this through Vinkius, your agent gets access to China's leading weather data provider, letting you audit air quality or plan outdoor logistics simply by asking questions.

Core Capabilities

01 — Get Current Environmental Status

Retrieve real-time information on current temperature, humidity, and the most up-to-date air quality index for any location.

02 — Forecast Future Conditions

Pull detailed weather predictions spanning 3 days, 7 days, or even a full 15-day outlook for planning purposes.

03 — Assess Environmental Impact

Access specialized life indices, including UV radiation levels and recommendations for clothing or outdoor activities.

04 — Monitor Safety Risks

Check for active severe weather warnings against a specific location to ensure operational safety.

05 — Determine Celestial Events

Find precise timings for sunrise, sunset, moonrise, and moonset across different geographical points.

06 — Locate Specific Areas

Search by name or keyword to find a specific location ID required for detailed data retrieval.

One Click on Vinkius — From Prompt to Execution

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

01 Subscribe to this MCP and provide your QWeather API key, selecting the appropriate plan (dev, free, standard, etc.).

02 Your AI client authenticates the connection through Vinkius, making all environmental tools available.

03 You ask your agent a natural language question—for example, 'What's the 7-day forecast and air quality in Beijing?'—and it executes the necessary data retrieval.

The bottom line is that you get complex, reliable environmental data delivered instantly through conversation, not through dashboard clicks.

Built For

This MCP is for anyone whose job depends on knowing what the weather or environment will do next week. Operations Managers who run logistics routes; HSE professionals running safety audits; and developers building location-aware applications.

Operations Manager

Needs to check if a planned outdoor event is safe, using the 15-day forecast or monitoring severe weather warnings.

HSE Professional (Health & Safety)

Must audit air quality and UV levels across multiple sites daily to ensure compliance and worker safety.

Developer

Integrates professional weather data into a custom application, using the location ID lookup tool to scope its functions.

What Changes When You Connect

01 Audit air quality instantly. Instead of visiting multiple government sites to check PM2.5 or AQI, use the `get_air_now` tool to get a single reading for any region.

02 Plan weeks ahead with confidence. Need to know if outdoor construction is viable next week? The 7-day forecast and 15-day outlook give you long-range planning data without complex filtering.

03 Safety first, always. Before deploying teams, run the `get_warning` tool to check for active severe weather alerts, ensuring immediate operational continuity.

04 Beyond temperature checks. Use `get_indices` to look up specialized metrics like UV radiation or even car washing suitability, adding depth to your daily reports.

05 Saves time on setup. If you're unsure of the correct location ID, use `lookup_location` first; it finds the exact coordinates so all subsequent calls are accurate.

Real-World Applications

Auditing a site before construction starts

An HSE manager needs to know if the air quality permits work. They ask their agent, 'What is the current AQI and what's the PM2.5 level in Sector B?' The agent uses `get_air_now` and immediately returns safe operating parameters, eliminating a 30-minute manual check of government portals.

Planning a multi-day outdoor event

An operations planner needs to confirm the weather for a three-day festival. They ask their agent to pull the `get_weather_3d` forecast and also use `get_sun_astronomy` to schedule activities around peak daylight hours, giving them a complete timeline.

Developing location intelligence software

A developer needs to integrate weather data for a new app. Instead of figuring out the precise ID, they use `lookup_location` with just a city name, getting the correct ID that can then power all future calls like `get_weather_now`.

Preparing an emergency briefing

A crisis manager needs to summarize current risks. They instruct their agent to check both active warnings via `get_warning` and the immediate air quality using `get_air_now`, compiling a single, actionable risk report instantly.

Patterns to Avoid

Mixing data sources

✗ AVOID

Manually checking a weather site for temperature, then going to an air quality website for AQI, and finally using Google Maps just to find the right coordinates.

✓ INSTEAD

Just ask your agent. It handles all three steps: first, use `lookup_location` to get the ID; second, use that ID with `get_weather_now`; third, run `get_air_now`. Everything is one prompt.

Over-relying on generic APIs

✗ AVOID

Using a general weather API that only provides temperature and feels like the data is incomplete for regulatory reporting.

✓ INSTEAD

This MCP connects to QWeather, which provides specialized indices (like UV radiation) via `get_indices` and detailed PM2.5 readings through `get_air_now`, giving you deeper compliance data.

Assuming location knowledge

✗ AVOID

Trying to run a forecast without knowing the precise, required location ID.

✓ INSTEAD

Never guess. Always start by calling `lookup_location` first. It ensures that every other tool you use—be it `get_weather_7d` or `get_warning`—is scoped correctly.

The Right Fit

Use this MCP if your job requires monitoring environmental factors (air, temperature, UV) across time and space. If you need to know *what* the weather is doing, or what the air quality means for public health, this is it. Don't use this if you only need basic geographical data like population counts or political boundaries—you'd use a dedicated GIS tool instead. If your needs are highly specific to advanced climate modeling (e.g., global oceanic currents), you might require a different scientific API, but for actionable local and regional planning, QWeather is unmatched.

Keeping track of environmental variables across multiple sites is a nightmare.

Today, if you're managing logistics or construction, you have to hop between three different places: the weather site for temperature, the air quality board for AQI, and often a separate mapping tool just to get the right coordinates. You spend time clicking through dashboards, cross-referencing dates, and copy-pasting IDs into your spreadsheet.

With this MCP, you tell your agent what you need—'Give me the 3-day forecast and the current air quality for Site Alpha.' It runs `get_weather_3d` and `get_air_now` in sequence, giving you a single, formatted report. You get immediate answers, not links to three different websites.

QWeather / 和风天气 gives you instant environmental data insights.

Manual checks involve calling `get_weather_now` for temperature and then separately querying the UV index using `get_indices`. You're always running a race against time, manually gathering different pieces of context.

Now, you just ask your agent to 'Give me the full environmental picture.' It handles all the necessary data calls in one go. You get comprehensive reports instantly—the process is seamless.

QWeather / 和风天气: All 10 Environmental Tools

Use these tools to pull everything from current weather conditions and complex location searches to specialized life indices and long-range forecasts.

#	TOOL	DESCRIPTION
01	`get_air_now`	Retrieves the current air quality index and particulate levels for a specified area.
02	`get_indices`	Gathers specialized daily environmental indices, such as UV radiation or suitability recommendations.
03	`get_moon_astronomy`	Calculates and reports the precise times for moonrise and moonset at a given location.
04	`get_sun_astronomy`	Provides accurate local times for sunrise and sunset, useful for scheduling outdoor work.
05	`get_warning`	Checks for any active severe weather warnings in a defined region to maintain safety awareness.
06	`get_weather_24h`	Fetches a detailed forecast covering the next 24 hours, including temperature changes and conditions.
07	`get_weather_3d`	Retrieves a concise three-day weather overview for quick planning decisions.
08	`get_weather_7d`	Provides a comprehensive seven-day forecast, ideal for weekly operational planning.
09	`get_weather_now`	Gets the most up-to-the-minute weather conditions at a specified coordinate or location.
10	`lookup_location`	Searches for and returns the necessary location ID using descriptive keywords or names.

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 current weather in Beijing (101010100)?

The current weather in Beijing is clear with a temperature of 22°C. The humidity is 45% and the air quality is excellent (AQI: 35). Would you like to see the forecast for the next 3 days?

U Check the air quality for Shanghai today.

I've retrieved the air quality for Shanghai. The current AQI is 75 (Moderate). PM2.5 levels are at 25 µg/m³. Outdoor activities are generally safe, but sensitive individuals should monitor the situation.

U Find the location ID for 'Hangzhou'.

I've found the location ID for Hangzhou. The ID is `101210101`. It is located in Zhejiang, China. I can now use this ID to retrieve detailed weather or air quality data for you.

Frequently Asked Questions

01 **How do I start with QWeather / 和风天气 MCP?**

You must first subscribe to the service and provide your API key through Vinkius. After that, you can query any environmental data using natural language prompts.

02 **Can QWeather / 和风天气 MCP forecast for more than a week?**

Yes, it provides forecasts up to 15 days out, giving you long-term planning ability that goes beyond the standard 7-day view.

03 **What do I use if I don’t know the location ID for my area?**

You use the `lookup_location` tool. You just provide a keyword like 'Hangzhou,' and it returns the specific, required location ID for all subsequent data calls.

04 **Is QWeather / 和风天气 MCP only for Chinese locations?**

No, while it's built on leading Chinese data, it supports global forecasts and environmental checks across various regions.

05 **How do I check if severe weather is happening with QWeather / 和风天气 MCP?**

You call the `get_warning` tool. This immediately audits active severe weather warnings against your target location, ensuring you don't miss critical safety alerts.

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 `"qweather": { "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

QWeather / 和风天气 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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