MCP SERVER | NO CODE | CLOUD HOSTED

Open-Meteo Weather MCP

Predict conditions for any GPS coordinate.

Open-Meteo Weather Forecast gives your AI agent live, comprehensive weather intelligence for any GPS coordinate on Earth. Get 16-day forecasts, real-time current conditions, and detailed hourly breakdowns—all without needing API keys or registration.

A+ Quality Score 100/100

weather-forecast | real-time-data | meteorology | gps-coordinates | hourly-weather

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vinkius.com/mcp/open-meteo-weather-forecast

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.

Open-Meteo Weather Forecast MCP

4 tools available
Cloud-hosted on Vinkius

Planning anything that depends on the sky is tough enough; coordinating it across multiple locations gets worse. This MCP connects your agent directly to open weather data, letting you query any part of the globe for deep weather metrics. You don't have to jump between three different websites just to check rain chances, wind speed, and UV index for a single event location. Instead, you provide coordinates, and the system returns structured predictions that include everything from 16-day temperature trends to specific hourly details like dewpoint or solar radiation. It’s designed for complex planning—think logistics routes or large outdoor events—allowing your agent to plan with precision. When you connect this MCP via Vinkius, your AI client immediately gains access to a reliable source of environmental data that changes how you build weather-aware applications.

Core Capabilities

01 — Generate multi-day predictions

Get detailed weather forecasts for up to 16 days based on location coordinates.

02 — Check real-time conditions

Retrieve an instant snapshot of current local weather, including wind speed and cloud cover.

03 — Analyze hourly metrics

Access granular data points like dewpoint, visibility, and solar radiation for every hour in a given period.

04 — Summarize daily cycles

Determine key planning times, including sunrise duration, sunset time, and max/min temperatures for any day.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/open-meteo-weather-forecast** — connect your AI agent in three steps.

01 Subscribe to this MCP in Vinkius. You don't need an API key or special registration because the data is open.

02 Tell your AI agent what location (GPS coordinates) and what kind of weather information you need—whether it’s a 16-day forecast or just today's wind speed.

03 The MCP sends that request to Open-Meteo, which returns structured, actionable data points directly back to your AI client.

The bottom line is, you get deep, reliable weather data for any location without writing a single API call yourself.

Built For

This MCP is built for operations managers and planners who can't afford to guess about the weather. If your job requires coordinating resources across time or distance, you need this tool.

Logistics Planner

Checks multi-stop delivery routes against 16-day forecasts to preemptively reroute around expected rain or high winds.

Event Coordinator

Uses daily summaries and hourly details to schedule outdoor activities, knowing exactly when the sun sets or when precipitation is most likely.

Agricultural Specialist

Retrieves detailed hourly metrics like evapotranspiration rates and dewpoint to determine optimal times for irrigation or planting.

What Changes When You Connect

01 Forecasting 16 days out means you can plan entire seasons, not just today. You get long-term predictions covering temperature, wind, and precipitation probability via the `get_weather_forecast` tool.

02 The MCP gives you hyper-detailed metrics, like dewpoint or solar radiation. These hourly details are essential for scientific applications where general forecasts aren't enough; use `get_hourly_details` to access them.

03 Need an immediate status update? The `get_current_weather` tool provides a quick, precise reading of the temperature and wind gusts right now, which is perfect for real-time operational decisions.

04 Stop guessing about daylight hours. The `get_daily_summary` tool calculates sunrise/sunset times and sunshine duration, letting you structure events around natural light cycles with confidence.

Real-World Applications

Rerouting a multi-state delivery truck

A logistics manager needs to know if three different stops in the Midwest will experience heavy rain this week. Using `get_weather_forecast`, they input all coordinates and ask their agent for a comparative 16-day view, allowing them to reroute the schedule before any delays happen.

Setting up an outdoor festival tent layout

An event organizer wants to maximize natural light and avoid high wind risk. They use `get_daily_summary` to find exact sunrise/sunset times and cross-reference that with the expected maximum wind direction, ensuring proper structural planning.

Assessing crop irrigation needs

An agricultural professional needs to know when the air is most conducive for watering. They use `get_hourly_details` to analyze dewpoint and evapotranspiration rates over a 24-hour cycle, making their resource usage highly efficient.

Developing a travel itinerary widget

A developer needs a reliable weather source for a new app. They use `get_current_weather` to pull real-time data and `get_weather_forecast` to populate the next two weeks of predictions, giving users an instant, comprehensive experience.

Patterns to Avoid

Treating it like a general map service

✗ AVOID

Asking the agent for traffic flow or historical pollution levels. The MCP only handles meteorological data.

✓ INSTEAD

If you need current movement data, use a dedicated mapping API. If you need weather, always specify coordinates and ask for the right tool: `get_current_weather` for now, or `get_weather_forecast` for future plans.

Checking only today's forecast

✗ AVOID

Running a query that only asks for temperature tomorrow. This misses critical data like wind gusts or precipitation probability.

✓ INSTEAD

Always use `get_weather_forecast` to get the full 16-day view, or if you need maximum detail, combine it with `get_hourly_details`.

Forgetting coordinates are required

✗ AVOID

Asking 'What's the weather in London?' without providing lat/long. The MCP needs precise geographic input.

✓ INSTEAD

Always pair your request with specific latitude and longitude coordinates for maximum accuracy when calling any of these tools.

The Right Fit

Use this MCP if your core problem involves location-based, time-sensitive environmental prediction. If you need to know how wind speed changes over 16 days, or what the dewpoint will be at 3 PM on a Thursday in Phoenix, this is exactly what you need. It handles all that complexity using open data sources and requires no keys.

Don't use it if your problem is related to non-meteorological services. If you just need traffic updates, you need a different mapping service. Similarly, if you are tracking historical climate patterns for decades of research (beyond the 16-day window), this MCP isn't designed for that kind of deep archival search; focus on `get_weather_forecast` for predictive power. It is purely about structured weather data access.

The headache of manual weather lookups

If you run operations that cross multiple locations, checking the forecast used to be a nightmare of tabs and copy/pasting. You'd open one site for the current wind speed, another for the 7-day rain chance, and a third just for sunrise times—all with different data formats and requiring manual coordinate input every single time.

Now your agent handles it all in one go. Instead of clicking through three separate services, you ask the MCP to predict conditions across multiple points. You get structured, unified data that tells you everything you need without leaving your workflow.

Open-Meteo Weather Forecast MCP: Unlocking deep weather metrics

The biggest manual step that vanishes is the comparison of disparate metrics. You no longer have to manually check three different sheets—one for temperature, one for humidity, and a third for solar radiation—to plan an optimal outdoor window.

Now you can combine these data points seamlessly. Your agent doesn't just tell you it'll rain; it tells you the chances of rain *and* how low the visibility will be when it happens. That specificity changes everything.

Open-Meteo Weather Forecast: 4 Tools

These tools let you query the weather data in four specific ways: getting long forecasts, checking real-time status, diving into hourly details, or summarizing daily cycles.

#	TOOL	DESCRIPTION
01	`get_weather_forecast`	Provides a weather forecast covering up to 16 days for any location using latitude and longitude.
02	`get_current_weather`	Retrieves the immediate, real-time weather conditions for an exact set of coordinates.
03	`get_hourly_details`	Generates detailed hour-by-hour weather data points like visibility and solar radiation for a specific location.
04	`get_daily_summary`	Calculates the daily summary, including sunrise/sunset times, maximum temperature, and wind direction for a location.

See It in Action

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

U What's the weather forecast for Tokyo this week?

🌦️ Tokyo 7-Day Forecast

Today: 22°C, partly cloudy, 10% rain chance
Tomorrow: 19°C, rain expected (85%), 12mm precipitation
Wednesday: 24°C, sunny, UV index 7 (high)

Wind speeds remain moderate at 15-20 km/h from the southeast.

U What are the current weather conditions in New York?

🌡️ New York — Current Conditions

- Temperature: 18°C (feels like 16°C)
- Humidity: 62%
- Wind: 22 km/h NW, gusts up to 35 km/h
- Cloud cover: 45%
- Precipitation: None currently

U Will it snow in Munich in the next 10 days?

❄️ Munich 10-Day Snow Analysis

Snowfall detected on days 4-5:
- Day 4: 3.2mm snow, -2°C
- Day 5: 1.8mm snow, -1°C
- Snow depth expected to reach 5cm

All other days remain above freezing with no snow expected.

Frequently Asked Questions

01 **Does Open-Meteo Weather Forecast MCP require an API key?**

No, it does not. The MCP uses open data from Open-Meteo, meaning you don't need to register or manage any API keys.

02 **How many days can I forecast using get_weather_forecast?**

The system provides forecasts for up to 16 days. This is enough time to plan complex, multi-week operations or events.

03 **What kind of detailed data does get_hourly_details provide?**

This tool gives deep metrics beyond just temperature, including dewpoint, visibility, solar radiation, and evapotranspiration rates for precise analysis.

04 **Can I check the current weather conditions using this MCP?**

Yes, you use `get_current_weather` to get a real-time snapshot of wind speed, cloud cover, and temperature at any given location's coordinates.

05 **Is Open-Meteo Weather Forecast MCP suitable for logistics planning?**

Absolutely. Its ability to provide 16-day forecasts allows logistics planners to plan routes around predicted weather risks, saving time and money.

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 `"open-meteo-weather-forecast": { "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

Open-Meteo Weather Forecast 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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