MCP SERVER | NO CODE | CLOUD HOSTED

AccuWeather MCP for AI Agents

Monitor Local Weather Conditions and Forecasts

AccuWeather provides enterprise-grade weather intelligence for your AI agents. Get real-time conditions, 15-day forecasts, severe weather alarms, and activity indices for any location on Earth via simple conversation.

A+ Quality Score 98.33/100

weather-forecast | meteorology | real-time-data | severe-weather-alerts | location-services

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vinkius.com/mcp/accuweather

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.

AccuWeather MCP

10 tools available
Cloud-hosted on Vinkius

Stop guessing about the weather before a trip or an event. This MCP connects your AI agent directly to AccuWeather's global data stream, giving you reliable forecasting that professionals use worldwide. You can ask for current temperatures, hourly breakdowns, and even specific activity advice, all based on the location you name. For example, planning an outdoor wedding? You get more than just a temperature; you see severe weather alarms like flood warnings or heat advisories, along with specialized indices for running or UV exposure. If your workflow requires accessing this kind of high-stakes, localized data—whether it's managing field crops or organizing large public gatherings—Vinkius makes connecting to this power simple, allowing any compatible AI client to deliver accurate weather insights in natural conversation.

Core Capabilities

01 — Search for Locations

Find the necessary location key by searching for a city or place name anywhere in the world.

02 — Check Real-Time Conditions

Get instant, detailed weather reports including temperature, humidity, wind speed, and UV index for any known spot.

03 — Plan Multi-Day Events

Retrieve 1 to 15 days of forecast data, showing high/low temperatures, precipitation chances, and sunrise times for planning purposes.

04 — Monitor Hourly Changes

Get detailed forecasts hour by hour for up to five days, perfect for knowing exactly when rain or peak wind is expected.

05 — Identify Safety Risks

Track active severe weather alerts, such as tornado warnings, heat advisories, and flood notices, for immediate safety planning.

06 — Assess Activity Suitability

Calculate specific indices for activities like hiking, golf, or running to help plan outdoor events safely.

One Click on Vinkius — From Prompt to Execution

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

01 First, use the search location tool to find and validate the correct AccuWeather key using a city name.

02 Next, query the desired data type. You can ask for current conditions, then follow up by requesting daily forecasts or specific weather indices.

03 Your AI agent processes this information and delivers the requested metrics—like Celsius temperatures or km/h wind speeds—directly in your chat conversation.

The bottom line is that you don't need to manually check multiple websites; your AI agent handles all the location lookups and data retrieval, giving you one comprehensive answer.

Built For

Anyone who plans events or operations outdoors needs this. From agricultural consultants tracking planting seasons to travel planners organizing cross-country trips, this MCP provides the reliable data needed for risk mitigation and accurate scheduling.

Event Organizer

Determines if an outdoor festival or fair is safe by checking real-time severe weather alarms and 15-day forecasts.

Agricultural Planner

Accesses extended seasonal forecasts to determine the best timing for planting, harvesting, or pesticide application.

Travel Consultant

Checks destination weather and activity indices before booking trips, adjusting advice based on UV exposure or anticipated rainfall.

What Changes When You Connect

01 Know exactly when to prepare. Use the get_hourly_forecast tool to see precise wind shifts or rain starts, avoiding surprise weather.

02 Prioritize safety first. The get_weather_alarms capability immediately flags severe threats like hurricanes or heat advisories before you leave home.

03 Plan for long-term projects. Get 15 days of data using the get_extended_forecast tool, giving you time to adjust agricultural or event schedules weeks in advance.

04 Tailor activity recommendations. The get_weather_indices tool tells you if a day is good for running or golf, moving beyond just 'sunny' status.

05 Work globally without hassle. All data returns are metric (Celsius, km/h), making the results usable for international operations and reports.

Real-World Applications

Event planning needs risk assessment

An event planner asks their agent: 'Are we safe holding the festival in two weeks?' The agent uses get_extended_forecast and get_weather_alarms to confirm if any severe weather is predicted, preventing costly last-minute cancellations.

Agricultural timing for planting

A farmer asks their AI client: 'When should I plant corn near my coordinates?' The agent uses get_daily_forecast and get_weather_indices to evaluate the optimal window based on soil conditions and predicted rainfall.

Last-minute travel adjustments

A traveler asks: 'What's the weather like in Seattle right now?' The agent uses get_current_conditions, providing immediate details on temperature, wind, and visibility so they know what to pack.

Optimizing outdoor team activities

A fitness coach asks: 'Should we plan a marathon training run tomorrow?' The agent uses get_weather_indices, checking UV exposure and general suitability scores, ensuring the activity is safe and effective.

Patterns to Avoid

Assuming data coverage

✗ AVOID

Asking for weather details without first running a location search. The agent fails because it doesn't have the required location key.

✓ INSTEAD

Always start by using search_location to find the correct AccuWeather key, then pass that verified key into get_current_conditions or any other forecasting tool.

Over-relying on general forecasts

✗ AVOID

Using only a daily forecast for an outdoor event. This misses crucial shifts in wind speed or localized rain patterns.

✓ INSTEAD

For precise timing, always check the get_hourly_forecast tool. It gives you the minute-by-minute data needed to plan around peak winds or sudden downpours.

Ignoring specific activity needs

✗ AVOID

Asking for a general 'good day' forecast, which ignores specialized risk factors.

✓ INSTEAD

When planning an outdoor event, use the get_weather_indices tool to check suitability scores. This gives you targeted advice on running or UV exposure, not just temperature.

The Right Fit

Use this MCP if your plan hinges on predictable environmental data: organizing festivals, scheduling construction work, managing field operations, or booking travel requiring high accuracy. For example, if you need to know the exact timing of rain starting in two hours, use get_hourly_forecast; don't use daily forecasts. Don't use this if you only need general climate information (like average yearly rainfall), as it focuses on predictive and immediate conditions. If your core need is simply 'Is it sunny?' then using get_current_conditions is fine, but for anything involving planning or safety risk—always check the weather alarms first.

AccuWeather MCP: Managing Severe Weather Risks with Forecast Data

Before this connector, checking severe weather meant jumping between government websites and local news feeds. You'd have to manually compare flood warnings against heat advisories, making it a huge time sink just to confirm safety for an outdoor event.

Now you simply ask your agent: 'Are there any active alerts?' The tool runs get_weather_alarms across all major risk categories—tornadoes, floods, heat waves—and returns a consolidated checklist. You instantly know the full scope of risks so you can make informed decisions and keep people safe.

AccuWeather MCP: Precision Planning with Hourly Weather Data

Planning complex operations used to mean accepting a 'general forecast' for the day. You might schedule an outdoor photoshoot, only to find out later that peak wind speed hits at 3 PM, ruining the shots.

With this MCP, you get granular control. The get_hourly_forecast tool shows exactly when conditions will change. Instead of planning around a general 'afternoon chance of rain,' your agent tells you precisely at what hour and minute to expect it.

AccuWeather MCP: 10 Tools for Weather Data Access

Access the full suite of weather tools to get everything from immediate current reports to detailed long-term forecasting.

#	TOOL	DESCRIPTION
01	`get_weather_alarms`	Retrieves active severe alerts like floods, tornados, and heat advisories for safety planning.
02	`get_current_conditions`	Gets instant weather data including temperature, humidity, and UV index for a specific location key.
03	`get_current_conditions_metric`	Returns detailed current metrics like Celsius temperature and km/h wind speed for international use.
04	`get_daily_forecast`	Provides a multi-day view with high/low temperatures, precipitation probability, and sunrise times.
05	`get_extended_forecast`	Generates 15-day forecasts for planning large events or long-term agricultural scheduling.
06	`get_hourly_forecast`	Delivers weather data hour by hour, showing temperature and wind direction changes over a short period.
07	`get_index_groups`	Lists all available index categories (e.g., health, garden) to help you discover what planning indices are supported.
08	`get_weather_indices`	Calculates suitability scores for activities like running, fishing, and UV exposure at a given location.
09	`get_location_by_key`	Verifies detailed information about a specific location key, including its timezone and coordinates.
10	`search_location`	Finds the required AccuWeather location key by searching for any city or town name.

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 7-day weather outlook for Denver, CO?

Denver Forecast (Next 7 Days)

- **Day 1 (Today):** High 28°C / Low 15°C. Mostly sunny.
- **Day 3:** High 22°C / Low 10°C. Possible afternoon showers.
- **Day 5:** High 30°C / Low 17°C. UV Index: Very High (Plan sunscreen!).

Sunrise is at 6:18 AM, and sunset will be around 7:45 PM.

U Are there any severe weather warnings for Miami?

⚠️ **Active Weather Alerts for Miami-Dade County:**

- **Type:** Heat Advisory
- **Severity:** High Risk
- **Details:** Extreme heat expected. Index values up to 41°C predicted.
- **Duration:** Until 7 PM EDT today.

Please take precautions against dehydration and heat-related illness.

U What's the best day this month for running in Boston?

Boston Running Suitability Report (Next 14 Days)

DATE	ACTIVITY INDEX	CATEGORY
Tomorrow	8/10	Excellent
Day After	6/10	Good
Day 3	2/10	Poor (Rain Likely)

Recommendation: Run tomorrow. Conditions are ideal with low wind and moderate UV exposure.

Frequently Asked Questions

01 **How does the AccuWeather MCP help me plan an outdoor event?**

It gives you comprehensive risk checks beyond just temperature. You can use it to check active severe weather alarms, evaluate 15-day forecasts, and even assess activity indices like wind suitability for your specific date.

02 **Can I get accurate weather data that works internationally?**

Yes. The AccuWeather MCP returns all measurements in metric units (Celsius, km/h, kilometers), so you don't have to worry about unit conversions when planning for global locations.

03 **What if I need hyper-detailed timing—like knowing exactly when the rain starts?**

For that level of detail, use the hourly forecast capability. It breaks down conditions hour by hour over up to five days, letting you plan around specific shifts in wind or precipitation.

04 **Do I need a location key before using the AccuWeather MCP?**

Yes, for accuracy. You first use the search function within the MCP to find and verify the correct location key by name, which is required for all subsequent weather queries.

05 **Does this MCP help with agricultural planning?**

Absolutely. It provides extended 15-day forecasts along with activity indices, helping you determine optimal windows for planting or harvesting based on predicted rainfall and temperature swings.

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 `"accuweather": { "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

AccuWeather 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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