

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

Amsterdam Urban Trees MCP

Direct access to Amsterdam's official urban forest registry.

Amsterdam Urban Trees MCP provides keyless access to the city's complete tree inventory and operational records. Your AI client can query specific tree data, check storm damage reports, review safety inspection histories, and track felling or replanting decisions without needing an API key.

A+ Quality Score 98.33/100

amsterdam

trees

urban-forestry

storm-damage

sustainability

open-data



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.

Amsterdam Urban Trees MCP

5 tools available

Cloud-hosted on Vinkius

You can now pull real-time data from Amsterdam's urban forest registry directly into your AI client. This MCP exposes the city's internal inventory and the operational logs surrounding it, including maintenance and damage records. Instead of navigating complex government portals, you can ask your agent to find specific species, locate trees by neighborhood, or pull up safety inspection logs for a particular tree ID. It covers everything from the planting year and height of individual trees to detailed reports on storm damage from specific weather events like Conall or Kyrill. You can also track the lifecycle of urban greenery by looking up felling permits and replanting decisions. This makes it a practical tool for anyone needing to reason about green infrastructure, storm risks, or municipal maintenance schedules in Amsterdam.

Core Capabilities

01 — Inventory Querying

Your agent can filter the city's tree population by species, height, or location.

02 — Storm Impact Analysis

The AI can pull specific damage reports linked to historical storm events.

03 — Maintenance Tracking

Your client can retrieve safety inspection logs and pruning records for specific trees.

04 — Lifecycle Monitoring

The agent can access felling permits and replanting data to track tree removal.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/amsterdam-urban-trees — connect your AI agent in three steps.

- 01 Connect your MCP-compatible client to Vinkius.
- 02 Select the Amsterdam Urban Trees MCP from the catalog.
- 03 Ask your AI client to search for specific tree data or storm reports.
- 04 The agent executes the tool and returns the registry data to your chat interface.

Connect your client to the Vinkius-hosted MCP to start querying Amsterdam's data immediately.

Built For

This MCP is built for professionals managing or studying urban environments in Amsterdam.

Urban Foresters

Use the agent to monitor tree health and maintenance schedules.

Researchers

Query the registry to gather data on species distribution and storm impacts.

Property Owners

Check the status and inspection history of trees located near their properties.

What Changes When You Connect

- 01 No API keys required for access to Amsterdam's open data.
- 02 Directly connects municipal tree records to your AI agent.
- 03 Provides granular data from individual tree IDs to neighborhood-wide searches.

Real-World Applications

Storm Damage Assessment

An agent can quickly compile a list of all trees damaged during a specific storm event.

Green Infrastructure Planning

Researchers can use species and height data to map the city's canopy density.

Maintenance Auditing

Foresters can verify if a specific tree has undergone its required safety inspections.

Urban Planning

Analyze felling and replanting patterns to understand city-wide tree replacement trends.

Patterns to Avoid

Broad, unguided inventory searches

❌ AVOID

Asking your agent to find all trees in Amsterdam to see if the city is green enough.

✓ INSTEAD

Use `search_trees` to narrow your query by specific species or neighborhoods for actionable data.

Guessing tree health status

❌ AVOID

Assuming a tree is safe because it looks healthy from the street.

✓ INSTEAD

Check the actual maintenance history by calling `list_safety_inspections` to see recent pruning and inspection logs.

Manual storm damage tracking

❌ AVOID

Manually searching through news reports to find out which trees fell during a specific storm.

✓ INSTEAD

Use `list_storm_reports` to get a structured list of damage types and addresses tied to specific weather events.

The Right Fit

Connect this MCP if you manage urban greenery, conduct environmental research, or oversee property maintenance in Amsterdam. Do not connect it if you need general botanical information or data for cities outside the Amsterdam municipality.

Amsterdam Urban Trees 5 Tools

These tools provide direct access to Amsterdam's municipal tree inventory, storm damage logs, and maintenance records.

#	TOOL	DESCRIPTION
01	search_trees	Search the city tree inventory to find specific trees by species or neighborhood.
02	get_tree	Retrieve a single tree record using its unique ID.
03	list_storm_reports	List reports of tree damage caused by named storms, including damage type and the nearest address.
04	list_safety_inspections	Access tree safety inspection records, including the inspecting organization and pruning methods used.
05	list_tree_removal_records	View records for tree felling and replanting decisions, including permit dates and trunk diameters.

See It in Action

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

U How many American elms (*Tilia americana*) are in the tree registry?



The search_trees tool shows the total count of *Tilia americana* in the registry, including their height class, planting year, and location data.

U Show the tree storm damage reports from the Conall storm.



Using list_storm_reports, I found the damage records for the Conall storm, which include the type of damage, the closest address, and the neighborhood affected.

U What is the safety inspection history of tree 921115?



The list_safety_inspections tool shows the history for tree 921115, including the inspection date, the organization that performed it, and the pruning method applied.

Frequently Asked Questions

01 Do I need an API key to use this MCP?

No, this MCP provides keyless access to Amsterdam's open data platform.

02 Which AI clients can I use with this?

You can use this MCP with any compatible client, such as Claude, Cursor, Windsurf, or VS Code.

03 Can I find specific tree locations?

Yes, the search tools provide point geometry and location details for trees in the registry.

04 Does this include storm damage data?

Yes, you can list reports for specific storms like Conall, Lothar, or Kyrill.

05 What kind of tree data is available?

The registry includes species, height, planting year, owner, and safety inspection history.

06 Do I need an API key?

No. The bomen v2 service of the city's DSO open-data platform is public (OPENBAAR) and works with zero credentials.

07 What is in a tree record?

Each stamgegevens record carries the species name, height class, trunk diameter class, planting year, owner and manager, where the tree stands, its protection status and a point location in EPSG:28999 (RD New).

08 Can I check whether a specific tree was inspected?

Yes. Pass the tree id to `list_safety_inspections` to see its inspection history (type, organisation, date, pruning method). The same id works with `list_tree_removal_records` to check felling/replanting decisions.

09 Which storms have damage reports?

Storm damage reports are registered under named storms such as Conall (2024/25). Filter `list_storm_reports` by the storm name, or by `active=true` to see damage from a storm currently in progress.

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>"amsterdam-urban-trees": { "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

Amsterdam Urban Trees 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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