

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

Family Contact Tree MCP

Organize family hierarchies and automate emergency notification orders.

Family Contact Tree MCP lets your AI client manage complex family contact structures. You can build hierarchical trees, verify that relationships are logically sound, and generate specific contact sequences for emergency notifications. It turns your agent into a coordinator for family communication during critical events.

A+ Quality Score 100/100

family

contacts

hierarchy

notifications

emergency



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.

Family Contact Tree MCP

4 tools available

Cloud-hosted on Vinkius

You can use this MCP to organize how family members are contacted during emergencies. Instead of digging through spreadsheets, you tell your AI client to manage a structured hierarchy. You can build out the tree, ensuring every connection makes sense and no one is left out. If an emergency happens, you don't have to guess who to call first. You can have your agent calculate a prioritized notification sequence based on the specific roles and levels you've set up. It's built for managing the logic of who needs to know what, and when, based on their position in the family structure. You can also quickly pull up specific profile details or view the entire tree organized by levels to make sure your data stays clean and actionable.

Core Capabilities

01 — Hierarchy Management

Your agent organizes contacts into structured levels.

02 — Integrity Checking

The AI identifies logical errors or broken links in your family tree.

03 — Priority Sequencing

Your agent builds contact lists based on specific notification orders.

04 — Profile Retrieval

The AI pulls specific roles and contact data for individuals on demand.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/family-contact-tree — connect your AI agent in three steps.

- 01 Connect your MCP-compatible client to Vinkius.
- 02 Describe the family structure or upload contact data.
- 03 Ask your agent to validate the tree for errors.
- 04 Request a notification sequence for a specific emergency scenario.

You connect the MCP to your client and start managing contacts through natural language.

Built For

This MCP is designed for people managing emergency response protocols or complex family organization systems.

Emergency Coordinators

They hand off the task of calculating contact orders to the AI.

Family Administrators

They use the AI to maintain and validate large family contact trees.

Crisis Managers

They rely on the AI to quickly pull contact details during active incidents.

What Changes When You Connect

- 01 Eliminates logical errors in contact trees through automated validation.
- 02 Reduces manual effort in determining who to contact first during emergencies.

- 03 Provides a clear, leveled view of family structures for better organization.

Real-World Applications

Emergency Notification

Generate a specific order of contact attempts when a crisis occurs.

Contact Auditing

Quickly verify the roles and status of specific family members.

Tree Maintenance

Check for orphaned nodes or impossible relationship loops in your data.

Structural Visualization

View the entire family organization by levels to understand the hierarchy.

Patterns to Avoid

Manual contact list creation

AVOID

You try to manually write out a list of who to call first during a crisis using a notepad.

✓ INSTEAD

Let your agent build a prioritized list automatically using `calculate_notification_sequence`.

Ignoring broken connections

AVOID

You add new family members but don't check if their relationships actually make sense in the tree.

✓ INSTEAD

Run `validate_relationship_integrity` to catch orphaned nodes or impossible loops immediately.

Searching for individual details manually

AVOID

You scroll through a massive spreadsheet to find a specific person's phone number or role.

✓ INSTEAD

Just ask your agent for the info using `get_contact_details`.

The Right Fit

Connect this MCP if you manage emergency response protocols or large, complex family organizations. Do not connect it if you only need a simple address book. The decision depends on whether you need a structured hierarchy that dictates specific notification orders.

Family Contact Tree MCP Tools

These tools handle the logic of your family hierarchy and the math behind emergency notification orders.

#	TOOL	DESCRIPTION
01	calculate_notification_sequence	This tool generates an ordered list of contact attempts based on your specified notification priority.
02	get_contact_details	Use this to pull specific profile and role information for any individual in the tree.
03	get_family_hierarchy	This tool returns a view of the family tree organized by levels.
04	validate_relationship_integrity	This tool checks that all defined relationships are valid and free of impossible loops or orphaned nodes.

See It in Action

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

U Show me the hierarchy starting from John Doe.



The family hierarchy for John Doe includes his spouse Jane Doe and children Alice and Bob.

U What is the notification sequence for the order: Alice, Bob, Jane?



The contact sequence is: 1. Alice, 2. Bob, 3. Jane.

U Get the details for contact 'Mary Smith'.



Mary Smith is a Backup contact and is currently active in the tree.

Frequently Asked Questions

01 How does the notification sequence work?

The tool takes your priority instructions and generates an ordered list of contact attempts.

02 Can this MCP find errors in my family tree?

Yes, the validation tool checks for impossible loops or orphaned nodes in your relationships.

03 What kind of clients can I use this with?

You can use this with any MCP-compatible client like Claude, Cursor, or Windsurf.

04 Does it show the family tree structure?

Yes, you can use the hierarchy tool to see the tree organized by levels.

05 How do I get specific person info?

You can ask your agent to retrieve specific profile and role information for any individual.

06 How can I see the full structure of my family tree?

You can use the ``get_family_hierarchy`` tool to receive a nested view of the tree starting from a specific root contact.

07 What happens if a preferred contact is unavailable?

The ``calculate_notification_sequence`` tool generates a prioritized list of contact attempts based on your specified notification order, ensuring backup contacts are reached in the correct sequence.

08 How do I ensure my family tree has no errors?

Use the ``validate_relationship_integrity`` tool to check for impossible loops or orphaned nodes within your tree structure.

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>"family-contact-tree": { "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

Family Contact Tree 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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Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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