MCP SERVER | NO CODE | CLOUD HOSTED

Capacities MCP for AI Agents

Structure Complex Knowledge Graphs and Organize Data in Your Personal Workspace

Capacities MCP connects your AI agent directly to your personal knowledge graph, letting you build structured data and manage complex information within Capacities. You can capture web links with automatic previews, create new typed objects based on specific rules, append quick notes, and search across all your spaces using only natural conversation.

F Quality Score 3.11/100

knowledge-graph | object-oriented | personal-knowledge-management | unstructured-data | ai-agents | data-modeling

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vinkius.com/mcp/capacities

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.

Capacities MCP

10 tools available
Cloud-hosted on Vinkius

Think of this MCP as giving your AI agent a full set of hands inside your personal knowledge workspace. It lets you move beyond simple text files; you build interconnected, object-based graphs. Instead of copy-pasting links into a document and hoping they'll be found later, you can tell the agent to save a web URL, and it automatically populates all the metadata and dynamic previews for you. You don't have to manually structure every thought. Need to capture notes from a meeting? Just ask your agent to append markdown text directly into today's daily log. If you need to track system architecture or product components, the agent can create entirely new typed objects that adhere strictly to your predefined schema. It takes natural language and turns it into structured data points. To start, just connect this MCP through Vinkius; then, let your preferred AI client handle the heavy lifting, letting you build deep knowledge blocks dynamically without ever leaving your chat interface.

Core Capabilities

01 — Map and view all personal spaces

List every top-level container in your Capacities account so you know exactly where information lives.

02 — Get detailed space structures

Retrieve the full metadata on a specific space, including all available object types and their property definitions.

03 — Search for content in your graph

Execute rapid keyword searches across a specified space to locate active nodes or objects by title.

04 — Save web links with previews

Inject external URLs into your knowledge base as Weblink objects, which automatically generate dynamic previews and metadata.

05 — Append quick markdown notes

Send short thoughts or summaries using Markdown text directly to the daily note log, linking content blocks permanently.

06 — Create new custom objects

Generate a typed object within a space that strictly adheres to your established graph rules and schema parameters.

07 — Organize with tags and media

Attach images or add structural tags to existing records, instantly grouping related items in your knowledge graph.

One Click on Vinkius — From Prompt to Execution

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

01 Subscribe to this MCP on Vinkius.

02 Navigate to your Capacities app Settings and grab your Personal Token.

03 Start giving commands through Claude or Cursor, asking it to fetch specific data points or create structured objects in your knowledge base.

The bottom line is, you feed the AI agent a natural language prompt, and it translates that into precise actions within your object-based system.

Built For

This MCP is essential for researchers, developers, and knowledge workers who struggle with information sprawl. If you spend too much time copy-pasting links or jumping between notes to connect ideas, this tool saves your sanity.

Academic Researcher

Use the agent to capture citations and weblinks from papers, saving them into a 'Research' space while automatically adding tags for topic clustering.

Software Developer

Instruct your AI coding assistant to document system architectures by creating new typed objects in a dedicated 'Tech Stack' space, preserving structured Markdown records.

Content Strategist

Have the agent search across all your spaces for specific content properties or use the daily note append tool to quickly draft and log meeting takeaways without switching applications.

What Changes When You Connect

01 Stop losing context. When you use the `save_weblink` tool, your agent doesn't just paste a URL; it generates dynamic previews and metadata right into your space.

02 Keep everything chronologically organized by appending notes. The `save_to_daily_note` tool lets you log quick thoughts or meeting summaries directly to today's entry without leaving the chat.

03 Move beyond simple documents. Use `create_object` to build new, typed entities that strictly follow your system's rules, making data reliable and queryable.

04 Find what you need instantly. The agent uses `lookup` across specific spaces to track down active nodes or properties based on keywords, saving hours of manual searching.

05 Keep your graph clean. With the ability to `add_tag`, you can quickly categorize related items after they've been saved via any process, keeping your knowledge organized by relation.

Real-World Applications

Building a Project Scope Document

A developer needs to document a new microservice. They prompt the agent to create a typed object using `create_object`, defining its parameters (owner, endpoints, dependencies). The agent enforces the correct structure, building a reliable record immediately.

Consolidating Meeting Learnings

A content strategist attended several meetings. Instead of making five separate notes, they ask their agent to process all raw links and meeting minutes, using `save_weblink` and `add_tag` to create a single, linked 'Client Brief' object.

Researching Interconnected Ideas

A student needs to build a literature review. They use the agent to execute `lookup` on their 'Reading Material' space using keywords from several sources, gathering all relevant notes and links into one summary.

Daily Thought Capture

At the end of a busy day, an executive can simply ask the agent to append today's key takeaways using `save_to_daily_note`—a quick markdown bullet list that links them back to specific project objects.

Patterns to Avoid

Pasting raw URLs into notes

✗ AVOID

A user pastes a link like `https://external.com/report` directly into a daily note, which looks messy and loses context when the page changes.

✓ INSTEAD

Instead, tell your agent to use the `save_weblink` tool. This saves the link as a structured object with an automatic preview, making it clean, functional, and permanently linked in the correct space.

Treating Capacities like a folder system

✗ AVOID

A user tries to manually dump files into a space without regard for what kind of data they are. Everything just gets mixed together.

✓ INSTEAD

Always let your agent use `get_structures` first. Understanding the predefined types allows you to instruct the agent to `create_object`, guaranteeing the new piece of knowledge is correctly typed and structured.

Forgetting where data came from

✗ AVOID

A user finds a great article but only saves the text, losing the original source link or context.

✓ INSTEAD

Use the agent to `save_weblink` for every external resource. This action automatically captures the URL and builds out the rich metadata necessary for future lookups.

The Right Fit

You should use this MCP if your knowledge management relies on connections, not just documents. It's ideal when you need to turn disparate pieces of information—a web link, a handwritten note, a system component definition—into one cohesive, structured object. Use it if you value having explicit relationships between concepts. Don't use this if all you need is simple file storage; for that, basic cloud drives work fine. Also, don't rely on the agent to guess your structure; before building anything complex, run `get_space_info` or `get_structures` so you know exactly what types of objects are available.

Capacities MCP for AI Agents: Structuring PKM Knowledge Graphs

Right now, organizing knowledge means constantly switching between apps. You copy a link from a research paper into Notion, then you manually paste key takeaways into your daily journal, and finally, you have to go back and create a separate 'Project' object just for the metadata. It's tedious, slow, and every piece is disconnected.

With this MCP, you talk to your agent once. You ask it to process the link *and* summarize the takeaways *and* tag the project simultaneously. The agent handles all that data mapping into structured objects within Capacities. What you get is a single source of truth, where every piece of information automatically connects to everything else.

Capacities MCP for AI Agents: Managing Object-Based Data Flows

Manual data flow involves creating objects by hand and then manually linking them using arrows or text mentions. This process is prone to human error, especially when dealing with dozens of related components.

The MCP lets your agent use `create_object` to build these typed records on command. You tell it the schema—'make a component object that needs an owner and three dependencies'—and the system enforces those rules automatically. The data integrity is perfect, every single time.

Capacities MCP: 10 Tools for Object-Based Knowledge Graph Management

Use these tools with natural language prompts to create, search, read, and update structured knowledge objects across all your Capacities spaces.

#	TOOL	DESCRIPTION
01	`list_spaces`	Retrieves a list of every top-level container, or 'space,' in your Capacities account.
02	`get_space_info`	Pulls detailed configuration for a specific space, including its defined object types and structure rules.
03	`get_structures`	Lists all available object type definitions (structures) within a selected Capacities space.
04	`lookup`	Searches for specific content nodes or objects across your graph by title or keyword.
05	`save_weblink`	Saves a given web URL into Capacities as a Weblink object, generating automatic previews and metadata.
06	`save_to_daily_note`	Appends plain text or Markdown payload directly to the daily note log, linking the content block permanently.
07	`create_object`	Builds a new typed object within a space by ensuring it complies with predefined graph rules and structure parameters.
08	`get_object`	Retrieves the full data payload for a specific, existing object using its unique ID.
09	`save_media`	Locates and attaches an image or media file, binding it directly to another specific record within your graph.
10	`add_tag`	Adds a structural tag to any item, helping you dynamically group related records and knowledge items together.

See It in Action

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

U Find all notes related to 'Q3 Marketing Strategy' in my 'Work' space and summarize them into a bullet list.

Search Results for Q3 Marketing Strategy:

- **Object: Campaign Launch Plan (ID: O90s...)**
* Status: Drafted
* Key Dates: Sept 1 - Oct 31
- **Object: Target Audience Profile (ID: O72t...)**
* Primary Segment: Small Businesses
* Pain Point: Lack of digital visibility.

Overall, the consensus is to focus on digital ads and update the profile object with more specific pain points. Should I attach this search result summary as a new note?

U Take this article link about quantum computing and save it to my 'Research' space.

Weblink Saved Successfully!

The resource has been added to the Research space (ID: X74n...). Here are the automatic details:

- **Title:** Quantum Computing Breakthroughs in 2025
- **Source:** Nature Magazine
- **Preview Snapshot:** [Image of quantum circuit]
- **Metadata Tagged:** #Physics, #FutureTech

The dynamic preview is live and ready for you to review.

U I wrote a block of code fixing the login bug. Add it as markdown to my daily note.

Done. I've appended your Python fix and a quick summary into today's log in the main workspace. It looks like this:

```python
def fix_login(user):
# Bug fixed: Added session validation check
return True
```

Note: This entry is permanently mapped to your daily activity and securely stored with a 'Bugfix' tag.

Frequently Asked Questions

01 **How does the Capacities MCP help me connect my web research?**

It lets you save external links as structured Weblink objects. Instead of just pasting a URL, it captures the page's full metadata and generates dynamic previews right in your knowledge graph for easy review.

02 **Can I use Capacities MCP to track my project components?**

Yes. You can instruct the agent to build new typed objects that strictly follow your defined schemas, ensuring every component record is consistent and queryable across your space.

03 **What if I need to find old notes in my graph?**

The MCP allows you to run targeted lookups. You can ask the agent to search for content by keyword or object type within a specific space, quickly retrieving nodes that might otherwise get lost.

04 **Is Capacities MCP only for big teams?**

No. It's built for individual knowledge workers and researchers. You can use it to manage personal thought flows and build your own comprehensive, object-based private knowledge graph.

05 **Does the MCP help me keep a daily log of my thoughts?**

Absolutely. You can tell the agent to append text or code directly into today's daily note using markdown syntax. This keeps your immediate thoughts logged and permanently linked within your knowledge base.

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 `"capacities": { "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

Capacities 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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