MCP SERVER | NO CODE | CLOUD HOSTED

Cosmic MCP for AI Agents

Manage Headless Content Objects and Media Assets

Cosmic gives your AI agents full control over your headless CMS and digital content workflows. You can use natural conversation to list, create, update, and audit every object type, media asset, and schema in your Cosmic bucket without ever touching the web interface. It's total programmatic control for developers and content teams managing complex data structures.

A+ Quality Score 100/100

api-first | content-modeling | digital-assets | schema-management | json-api | web-development

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vinkius.com/mcp/cosmic

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.

Cosmic MCP

10 tools available
Cloud-hosted on Vinkius

Managing a modern website often means juggling multiple platforms: a CMS for content, an asset manager for photos, and a separate database for structured metadata. This MCP connects all of that into one conversation layer. Instead of logging into the Cosmic web app to check if a certain field exists or manually running API calls just to patch a title block, your AI agent handles it all through simple chat commands. You can ask your agent to list every active object type, verify what fields they require, and even clear out old media assets when you need to manage storage quotas.

This means content creation becomes purely conversational. Your agent doesn't just read data; it writes it back. Need to spin up a new article draft? Just ask. Want to update the date on an event listing and change its main image? Give the command, and the agent handles the necessary patching behind the scenes. By connecting this MCP via Vinkius, you give your AI client direct, safe access to the entire digital content lifecycle, making developers and editors work in one unified chat session.

Core Capabilities

01 — Create new content objects

Generate completely new draft CMS objects with formatted JSON payloads.

02 — Update existing content drafts

Patch specific object metadata, like titles or dates, on live content records without overwriting the whole thing.

03 — Inspect and define schemas

List all active object types and retrieve a structural breakdown of which fields they require.

04 — Manage media assets

Retrieve detailed information about specific images or list all uploaded media to track asset metadata.

05 — Clean up content data

Irreversibly delete entire object nodes or wipe specified media assets to clear storage space.

06 — View bucket contents

Get a list of all major routing spaces (content models) available within your environment.

One Click on Vinkius — From Prompt to Execution

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

01 Subscribe to the Cosmic MCP and provide your specific Cosmic Bucket Slug along with an API Write Key.

02 Your AI client connects using those credentials, establishing a secure link to your content data structure.

03 You talk to your agent naturally—asking it to list object types or patch a title—and the agent executes the action directly against your CMS.

The bottom line is you manage complex digital content workflows by talking to your AI client, not by logging into an application UI.

Built For

This MCP is for any professional who spends time managing or structuring digital content. If you're a developer tired of writing boilerplate API calls just to check a field name, or a content editor who needs to publish an asset without opening the CMS web dashboard, this is for you.

Content Editor

Uses this MCP to create and update article drafts or manage associated media assets directly through chat, avoiding the need to navigate complex content management dashboards.

Frontend Developer

Connects this MCP to verify object type schemas and validate metadata structures in their IDE before writing any integration code.

Product Manager

Audits content versioning across multiple buckets or tracks media assets to ensure compliance for a new product launch.

What Changes When You Connect

01 Instead of writing multi-step API scripts, you can tell your agent to list object types using `list_schema_types` and get the full schema details in one go.

02 Content updates are simple. Use `patch_cms_object` to modify a title or date on an existing draft without risking data loss from replacing the entire record.

03 When you need to audit content, your agent can check both object metadata using `get_single_object` and verify media assets with `list_uploaded_media` —all conversationally.

04 Need to clear out old junk? You can irreversibly delete nodes via `wipe_cms_object` or wipe specific images using `wipe_media_asset`, keeping your database clean.

05 Getting started is easy. You simply connect the MCP, and the agent immediately knows how to find all content models available by executing `list_bucket_objects`.

Real-World Applications

Checking if a new field exists before coding

A developer needs to know what metadata fields are required for their 'product' type. Instead of guessing or running slow documentation lookups, they ask the agent to perform structural extraction via `get_schema_details`. The agent responds instantly with all necessary properties.

Updating a batch of expired event listings

A marketing manager needs to change the status and update the featured image for 10 old 'event' objects. They ask the agent to patch those records using `patch_cms_object` with the new data, saving hours of manual API calls.

Finding all available content models

A product team is setting up a new microsite and needs to know what content types already exist. They ask the agent to list all available routing spaces using `list_bucket_objects`, giving them an immediate map of possibilities.

Cleaning up abandoned media files

A developer detects old, unused images taking up space. They instruct the agent to inspect deep internal arrays and wipe those specific image assets using `wipe_media_asset` for storage quota management.

Patterns to Avoid

Manual API payload construction

✗ AVOID

Trying to manually build a complex JSON payload just to change one field's date, often leading to missing commas or incorrect data types.

✓ INSTEAD

Use the agent to `patch_cms_object`. This tool lets you target and substitute specific values (like dates) directly via ID, letting the MCP handle the difficult structure.

Over-fetching object details

✗ AVOID

Requesting all metadata for a content model when you only need to know which models exist. This wastes API calls and slows down the agent.

✓ INSTEAD

Start by using `list_schema_types` or `list_bucket_objects`. These tools give you a high-level overview of what's available without retrieving every single piece of data.

Assuming object existence

✗ AVOID

Trying to update an object using a slug that might have been deleted or renamed, causing the whole workflow to fail.

✓ INSTEAD

Always check first. Use `list_bucket_objects` to confirm the current environment structure before attempting any writes or reads.

The Right Fit

Use this MCP if your development process revolves around managing structured content data—if you regularly need to read schemas, create drafts, or update specific fields in a headless CMS. It's perfect for developers building integrations that rely on predictable metadata structures. Don't use it if your primary goal is simple message sending or fetching public-facing blog posts; those needs are better met by dedicated API endpoints. If you only need to read the content and never write or modify schemas, a simpler Read-Only connector might suffice, but this MCP provides complete control over both reading and writing.

Cosmic MCP for AI Agents: Managing CMS Object Metadata

Right now, updating content usually means logging into the web app, clicking through menus, finding the correct field block, manually changing a date or title, and hitting save. If you have fifty objects to update, that's fifty sets of clicks and potential human error.

With this MCP, you just tell your agent what needs to change—for instance, 'Change the primary image for all posts from 2023 to 2024.' The agent handles identifying the correct object IDs and running the necessary `patch_cms_object` commands in seconds. You get automated content mutation.

Cosmic MCP for AI Agents: Auditing Digital Assets and Schemas

Before writing any code that relies on a piece of data, you usually have to consult the documentation or run multiple queries just to confirm if the field exists and what format it expects. It's tedious detective work.

Now, ask your agent to perform structural extraction using `get_schema_details`. The MCP runs the query instantly and gives you a clean list of required fields and their types. You get immediate, reliable schema validation right in your chat window.

Cosmic: 10 Tools for Content & Schema Modeling

Use these tools to programmatically list content types, retrieve specific object data, or modify metadata directly in your Cosmic CMS.

#	TOOL	DESCRIPTION
01	`create_cms_object`	Generates and provisions entirely new draft CMS objects based on provided JSON payload data.
02	`wipe_media_asset`	Runs a validation check that permanently deletes specified media assets from the system.
03	`wipe_cms_object`	Permanently removes entire CMS object nodes, dropping live content records.
04	`get_media_asset`	Retrieves the detailed structural data for a specific media ID.
05	`get_single_object`	Fetches all cloud logging traces and details for a single specified content payload ID.
06	`get_schema_details`	Performs a structural analysis to retrieve properties that drive the active data fields within an object type.
07	`list_uploaded_media`	Inspects internal arrays, providing metadata and details for specific picture assets.
08	`list_schema_types`	Enumerates all structured rules attached to the system, showing every active object type available.
09	`list_bucket_objects`	Identifies and lists all bounded routing spaces within your headless CMS environments.
10	`patch_cms_object`	Modifies existing content objects by replacing draft values for specific fields using a unique ID.

See It in Action

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

U List all available content models for me.

Content Model List

- **posts**: Primary type for blog articles.
- **products**: Structured data for e-commerce listings.
- **events**: Used for scheduling and announcements.

I found 3 main types. Which one should I check the schema details for?

U What fields does the 'product' type require?

Product Schema Details:

This object requires the following properties:

- `name`: Text (required)
- `price`: Number (must be > 0)
- `description`: HTML (max 5k chars)
- `image`: File reference (mandatory for listing)

U Create a new event object: Name 'Q3 Review', Date '2024-10-01'

Object Creation Successful.

The new draft has been added to your `event` type.

- **Title:** Q3 Review
- **Status:** Draft
- **Date Mapped:** 2024-10-01
- **New Object ID:** abc_987

Frequently Asked Questions

01 **How can I use the Cosmic MCP to update content objects?**

You can patch existing content by telling your agent which object needs changing and what new metadata it should have. This is much safer than trying to rewrite or overwrite the entire record manually.

02 **Does this MCP help me figure out my CMS structure?**

Yes, you can ask the agent to list all object types and retrieve structural details for any type. This tells you exactly what fields your content model supports before you write a single line of code.

03 **Can I use Cosmic MCP to clean up old media files?**

Absolutely. You can tell the agent to inspect internal media arrays and wipe out specific image assets that are no longer needed, helping you manage storage quotas without risk.

04 **Is this better than using a dedicated API client?**

For conversational workflows, yes. While an API client requires writing code for every step, this MCP lets you accomplish complex tasks—like listing types and then patching objects—using natural conversation.

05 **Does Cosmic MCP support creating new content drafts?**

Yes, the agent can provision brand-new draft CMS objects. You just provide the structured data payload, and it handles the creation process for you.

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 `"cosmic": { "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

Cosmic 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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