MCP SERVER | NO CODE | CLOUD HOSTED

Miro MCP

Control visual whiteboarding from your chat.

Miro Visual Collaboration & Whiteboarding MCP lets your AI agent manage complex digital whiteboards and team ideation. List all accessible boards, inject sticky notes or custom shapes, and audit every element on a canvas. Quickly check who has access to a board or pull the organizational tags applied across a project.

A+ Quality Score 100/100

whiteboarding | visual-collaboration | ideation | agile-workflows | digital-sticky-notes | team-planning

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026
vinkius.com/mcp/miro-visual-collaboration-whiteboarding

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.

Miro (Visual Collaboration & Whiteboarding) MCP

8 tools available
Cloud-hosted on Vinkius

Take full control of visual collaboration and idea mapping through your AI client. This MCP connects directly to your Miro account, letting you treat digital whiteboards like any other data source. Instead of manually opening boards and clicking around, you can simply ask your agent to handle the heavy lifting. Need to track project milestones? You can list all accessible collaborative boards or create a fresh one for a new initiative. Want to annotate a specific idea? Your agent can attach sticky notes or geometric shapes right onto the canvas using coordinates. Beyond adding visuals, you can audit the entire board state by listing every item inside it. It also checks who is sharing access and pulls semantic organizational tags used across your project metadata. By connecting this MCP via Vinkius, you bring structured control to unstructured visual data.

Core Capabilities

01 — Manage Board Structure

List all existing Miro boards or create entirely new collaborative canvases.

02 — Add Visual Elements

Inject specific sticky notes, rectangles, circles, or triangles onto designated areas of any board.

03 — Inspect Board Contents

List every distinct visual item—text blocks and shapes—attached inside a board for a full audit.

04 — Audit Team Access

Check which team members have active viewer or editor permissions on a given board.

05 — Manage Metadata Tags

Retrieve the specific semantic organizational tags applied to a board, helping you manage project metadata efficiently.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/miro-visual-collaboration-whiteboarding** — connect your AI agent in three steps.

01 Subscribe to this MCP and provide your Miro Access Token.

02 Run a command through any MCP-compatible client to specify the action (e.g., list boards, create notes, or audit members).

03 Your agent executes the request against Miro and returns structured data about the board's current state or confirms the successful creation of an element.

The bottom line is you get natural language control over complex visual workspaces without ever leaving your chat window.

Built For

Product managers, UX designers, and engineering leads who spend hours trying to synthesize information from dozens of Miro boards. If manual board navigation slows down ideation, this MCP is for you.

Product Manager

Uses the agent to list all roadmap ideas across different boards and pull project metadata tags without manually clicking through multiple files.

UX Designer

Asks the agent to quickly add sticky notes or shapes directly onto a research board based on a chat conversation, saving time compared to opening Miro.

Engineering Team Lead

Uses the MCP to audit collaborative boards by listing all attached visual items and checking who has editing rights, ensuring project alignment quickly.

What Changes When You Connect

01 Stop clicking through boards. You can list all accessible Miro boards and get a complete overview of your project landscape instantly, without manual navigation.

02 Quickly log insights by having your agent inject sticky notes or custom shapes directly onto the canvas using just text prompts; no need to open the board first.

03 Maintain alignment by auditing collaborative board memberships. The MCP lists all active team members and confirms their specific viewer or editor permissions.

04 Understand the project state fully. You can list every distinct visual item attached inside a board, providing an instant audit of everything present.

05 Keep your data organized using `list_tags`. This tool pulls raw index groupings and semantic tags applied across the entire board for efficient metadata management.

Real-World Applications

Synthesizing Post-Meeting Brainstorms

A PM asks their agent to list all collaborative boards related to 'Q3 launch' and then checks who has editing access on each. The agent returns a summary of the board titles, their current members, and suggests which boards need immediate follow-up.

Annotating Research Findings

A UX designer reads user feedback and prompts the agent to create sticky notes with key findings on the 'User Flow' board. The agent injects these specific notes onto the correct coordinates, keeping the research visible to the team.

Quick Project Kickoff

A manager needs a new space for a client pitch. They prompt the agent to create a brand new collaborative canvas with 'Client X Pitch Deck' as the title. The board is provisioned instantly, ready for input.

Auditing Complex Diagrams

An engineer needs proof of what was discussed on an old architecture diagram. They ask the agent to list all items inside that specific board ID, confirming every text block and shape attached before a meeting.

Patterns to Avoid

Trying to export everything.

✗ AVOID

Manually navigating 15 different Miro boards, clicking 'Export,' and then trying to consolidate all the images into one folder for review. It takes hours of copy-pasting and file management.

✓ INSTEAD

Use your agent to list raw items attached inside a board or use `list_boards` first. This gives you structured data about every element without needing to download anything.

Asking for 'the whole project status'.

✗ AVOID

A general request that forces the agent to guess which boards are relevant, leading to a massive dump of unorganized board links and confusing metadata.

✓ INSTEAD

Use `list_tags` first. By listing semantic organizational tags applied inside a board, you narrow down the scope immediately, giving your agent precise context.

Updating access permissions manually.

✗ AVOID

A team member leaves and the manager has to open the board, find the user in the list, and revoke their edit rights individually across 10 different boards.

✓ INSTEAD

Run `list_members` on the specific board. You get a definitive list of everyone with access, confirming who needs their permissions changed.

The Right Fit

Use this MCP if your core problem is synthesizing unstructured information from *visual* workspaces. If you need to read or write details about sticky notes, shapes, or board membership, this tool works. For example, use `create_sticky_note` when a quick thought needs logging, or `list_items` when you need an audit of what's already there.

Do not use this if your goal is simple text document management (use a dedicated word processor MCP) or structured database record creation (use a CRM MCP). If you just need to write meeting minutes and don't care about the visual flow, opening Miro manually might be faster. This MCP excels when the data lives *on* the canvas, not in a spreadsheet.

The Friction of Board Navigation

Today, reviewing a project requires manual navigation across dozens of tabs and boards. You open Miro, scroll through sticky notes, check the member list for approvals, then click to see the latest shapes added—it's a cycle of opening, scrolling, clicking, and copying metadata into a document.

With this MCP, you simply ask your agent what you need. Instead of navigating, your agent pulls all the necessary information directly: it lists every member who has access or provides a full list of items attached to prove a point. You get structured data back in seconds.

List Items and Board Content Audit

You used to have to visually inspect every corner of the board, hoping you didn't miss an important text block or shape that was added hours ago. This manual audit process is exhausting and error-prone.

Now, run `list_items` against a specific Board ID. The agent returns a comprehensive list detailing every single visual element present on the canvas. You know exactly what's there—and nothing else.

Miro Visual Collaboration & Whiteboarding: 8 Tools

These tools let you programmatically list boards, create new content like shapes or notes, and pull detailed metadata about the items and team members on any board.

#	TOOL	DESCRIPTION
01	`list_boards`	Retrieves a list of all Miro Boards accessible across your account globally.
02	`get_board`	Pulls the static, explicit configuration details for one specific Miro Board ID.
03	`create_board`	Initializes a brand new collaborative Miro Board with custom titles and descriptions.
04	`list_items`	Lists all raw visual items physically attached inside a specific Miro Board ID.
05	`create_sticky_note`	Creates and attaches a new sticky note component to any designated Miro Board area.
06	`create_shape`	Generates and attaches a specified geometric shape structure onto a board.
07	`list_members`	Lists all active team members who share access bounds across a specific Miro Board.
08	`list_tags`	Retrieves the semantic organizational tags applied inside a board to manage project metadata.

See It in Action

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

U List all my Miro boards

I've retrieved 3 boards from your Miro account: 'Product Roadmap Q1' (ID: 12345), 'UX Research: User Flow' (ID: 67890), and 'Sprint Retrospective' (ID: 13579). Which one would you like to inspect or add items to?

U Create a sticky note on board '12345' with the text 'Review API auth flow'

Sticky note created! I've successfully added 'Review API auth flow' to your 'Product Roadmap Q1' board. The item has been injected onto the canvas and is now visible to all collaborators.

U Show me the tags used in the 'UX Research' board

Retrieving tags... I've identified 4 semantic tags in the 'UX Research' board: 'High Priority', 'User Pain Point', 'Feature Request', and 'Follow-up Needed'. Would you like me to list the items associated with any of these tags?

Frequently Asked Questions

01 **How do I use Miro Visual Collaboration & Whiteboarding MCP to see all my boards?**

Run `list_boards` through your agent. It retrieves a high-level list of every board you have access to, giving you an immediate map of your project work.

02 **Can I add notes using the Miro Visual Collaboration & Whiteboarding MCP?**

Yes, use `create_sticky_note`. You can ask your agent to attach a new sticky note with specific text directly onto any board you specify.

03 **What if I need to audit team permissions on Miro? Use the Miro Visual Collaboration & Whiteboarding MCP.**

You run `list_members` on the target Board ID. The agent gives a definitive list of all active users and specifies whether they are viewing or editing the content.

04 **Is there a way to create new Miro boards using the MCP?**

Absolutely. Use `create_board` to initialize fresh collaborative canvases instantly, allowing you to start a new project board without manual setup.

05 **Does this MCP help with organizing metadata tags on Miro? Use the Miro Visual Collaboration & Whiteboarding MCP.**

Yes. Running `list_tags` pulls all semantic organizational tags applied inside a board, helping you track project groupings and metadata efficiently.

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 `"miro-visual-collaboration-whiteboarding": { "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

Miro (Visual Collaboration & Whiteboarding) 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 →

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DOCUMENT INFORMATION

Generated	June 2026
MCP Server	Miro (Visual Collaboration & Whiteboarding) MCP
Server ID	`019d75d5-6a24-7098-8867-c96b372645b2`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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