

MCP SERVER

NO CODE

CLOUD HOSTED

# Bannerbear MCP for AI Agents

## Automating Dynamic Marketing Asset Generation from Templates

Bannerbear connects dynamic image and video generation to your workflow. Stop manually adjusting design files; use this MCP to create entire collections of assets by feeding templates data through natural conversation. You can list available designs, generate images from complex templates, or even produce videos, all without opening a separate design application.

**F** Quality Score 3.6/100

image-generation

dynamic-templates

marketing-assets

automation

design-workflow

media-production



# 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

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## 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

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## 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

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## 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](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# Bannerbear (Image Gen) MCP

6 tools available

Cloud-hosted on Vinkius

This MCP lets you automate graphic and video production using pre-built templates. Instead of logging into Bannerbear to adjust things, you just talk to your agent about the assets you need. You tell it which template to use and what text or colors should go in those spots. It handles the rest: generating a single image, creating dozens for bulk campaigns, or building full videos from video templates. All these visual assets are managed directly through your AI client, making sure everything is ready when you need it.

If you're already using Vinkius as your central catalog, this MCP just adds high-volume creative power to your existing tools. You can check the status of images and even retrieve final download links for immediate use.

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## Core Capabilities

### 01 — List Available Templates

Retrieves a full list of all templates within your project, allowing you to know exactly what design options are ready for use.

### 03 — Generate a Single Image Asset

Creates a new image instantly by applying specified text, color changes, or image modifications to a single selected template.

### 05 — Process Image Collections in Bulk

Automates high-volume workflows by creating multiple images at once, perfect for running large ad campaigns or seasonal sales.

### 02 — Get Template Details

Fetches specific layer and structure details for one template, letting you confirm which elements can receive dynamic input.

### 04 — Produce Video Assets

Generates full videos based on video templates and required input data frames for consistent media output.

### 06 — Check Asset Status and Links

Retrieves the status of a previously requested image, providing final URLs when the asset is completed and ready for download.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/mcp/bannerbear-image-gen](https://vinkius.com/mcp/bannerbear-image-gen) — connect your AI agent in three steps.

- 01 Connect your Bannerbear API key to this MCP within Vinkius and authenticate your credentials.
- 02 Tell your AI client what kind of visual assets you need (e.g., 'I need 5 variations of a product ad').
- 03 The agent uses the available tools, referencing templates and data inputs, and returns the status or final links for the created content.

The bottom line is that your AI client handles all the API calls; you just talk to it like talking to a designer.

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## Built For

Content managers, marketing teams, and developers who spend too much time in design tools making repetitive variations of ads or assets. If your job involves turning one core template into twenty different versions for A/B testing, this MCP saves you days of clicking.

### Digital Marketing Manager

Running weekly social media campaigns that require dozens of ad variations (different text, different product images) across multiple channels.

### Content Creator

Consistently producing video thumbnails or blog headers for a large volume of articles without needing to open Photoshop or Premiere Pro.

### Web Developer

Automating the generation of dynamic OG images or complex PDF reports based on backend data feeds directly from an agent workflow.

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## What Changes When You Connect

- 01 You skip the design software entirely. Generating social media banners or ad variations—even complex ones—is done via natural chat, not manual clicks.

- 02 Need a ton of assets fast? Using `create_collection` lets you process multiple images at once. This is huge for A/B testing campaigns and seasonal promotions.

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  - 03 It handles video too. With `create_video`, you can generate full promotional videos just by feeding in the necessary data points.

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  - 04 No guessing games about templates. You start with `list_templates` to see exactly what design structures are available before committing to a generation run.

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  - 05 The workflow is non-blocking. After running `create_image`, you use `get_image` to check the status and get the final, ready-to-use URL when it's done.
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## Real-World Applications

### Launching a Product Line with Varied Ads

A marketing manager needs 10 versions of an ad for different demographic segments. They ask their agent to use `create_collection` and feed it the template details, data points, and segment lists. The MCP returns all 10 unique images ready for upload.

### Generating Testimonial Video Clips

The sales team needs several short video clips featuring different clients. They ask for a batch of videos using `create_video`, providing names, quotes, and backgrounds, resulting in multiple finalized media assets.

### Creating Dynamic OG Images for SEO

A developer needs a custom Open Graph image for every article published. They use `create_image` through the agent, passing in the article title and featured image URL to automatically populate the template.

### Updating Seasonal Website Banners

Instead of manually rebuilding the site banner every quarter, the content team uses the agent to check templates (`list_templates`) and then generates a fresh batch of images using `create_image` with seasonal copy.

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# Patterns to Avoid

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## Treating it like a single-shot tool

### X AVOID

Trying to generate one image, checking its status manually, and then generating another one in separate steps. This is slow and misses the bulk potential.

### ✓ INSTEAD

To maximize efficiency, use `create_collection` when you have multiple assets needed (e.g., 20 ad variations). If you need a single asset check, always run `get_image` to confirm completion.

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## Ignoring video capabilities

### X AVOID

Thinking this MCP only handles static images because the last thing you used was an image generator. This limits your marketing output.

### ✓ INSTEAD

Remember that `create_video` is available for full media production. It uses templates just like images, but generates motion graphics and videos instead.

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## Forgetting template details

### X AVOID

Asking the agent to create an image without first checking if the required inputs (like a specific layer or text field) exist in the template.

### ✓ INSTEAD

Always start by running `list_templates` and then use `get_template` to confirm that the design you want actually supports all your necessary data points before trying to generate.

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## The Right Fit

Use this MCP if your core bottleneck is turning structured data (text, product IDs, names) into consistent, high-volume visual marketing assets. If you need to create variations of ads or banners for different campaigns, this is the right fit. Don't use it if you are building a full CMS backend that manages asset storage; think of this MCP as the engine that *creates* the files. Conversely, don't rely on it for basic file conversion—use dedicated document tools instead. If your needs involve advanced graphic editing or complex human-level design decisions (like 'make it look more artistic'), you still need a human designer in the loop. This tool automates execution, not creativity.

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## Bannerbear MCP for Marketing Automation: Generating Dynamic Ad Variations

Manually updating ad creatives is a nightmare. You grab one core template and then spend hours opening it in design software, swapping out product names, changing copy for different markets, or adjusting colors just to run A/B tests. It's tedious, high-risk clicking that slows down every campaign.

With this MCP, you simply ask your agent to create a collection of assets, providing the template ID and all necessary data lists. The tool handles the repetitive work—the copy-pasting, the resizing, the variation creation—and returns dozens of perfectly formatted images instantly.

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## Bannerbear MCP for Content Creation: Automated Media Production

Before this MCP, generating anything beyond a single static image meant juggling different tools for video backgrounds, data overlays, and final rendering. The process was linear, slow, and required multiple manual handoffs.

Now you can tell your agent to create the entire sequence—from listing the template, running `create_video` with input data, and finally retrieving the asset URL—all in one conversation. You get a finished media file without ever touching a timeline.

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# Bannerbear: 6 Tools for Dynamic Image & Video Generation

Use these tools to list templates, create single assets, process bulk collections, or check the status of finished media.

#	TOOL	DESCRIPTION
01	<code>create_collection</code>	Saves time by generating multiple images simultaneously, ideal for large-scale content campaigns.
02	<code>create_image</code>	Generates a new image by applying custom text, color, or photo modifications to a selected design template.
03	<code>create_video</code>	Builds a complete video file using specified data and a pre-designed video template.
04	<code>get_image</code>	Checks the status of a previously requested image and returns its final URL when it's finished processing.
05	<code>get_template</code>	Fetches detailed information about a specific template, helping you understand its layers and inputs.
06	<code>list_templates</code>	Retrieves a list of all available design templates in your project, giving you an overview of what's possible.

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## 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 current marketing templates so I can see what's available for the new product launch.



### Bannerbear Templates Available:

- 🚀 Product Launch Banner (UID: abc-123)
- 📅 Event Countdown Card (UID: def-456)
- 🗣️ Client Testimonial Graphic (UID: ghi-789)

Please specify which template you want to use next.

- U** I need 10 images for Facebook ads. Use the 'Product Launch Banner' template and cycle through these colors and titles.



### ✅ Collection Initiated:

Generating 10 assets using 'abc-123'.

- Image UID: img-x1y2z3 (Status: Processing)
- Image UID: img-a4b5c6 (Status: Processing)

...and so on.

Please wait a moment, and then use the status check to retrieve them.

- U** Can you get the final URL for the image that was created earlier? The one with UID 'img-xyz-789'.



### Image Status Check: img-xyz-789

- **Status:** Completed ✅
- **Dimensions:** 1200×628 pixels
- **Download URL:** `https://bannerbear.com/outputs/img-xyz-789.png`

You can use this link directly in your campaign manager.

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# Frequently Asked Questions

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## 01 How does the Bannerbear MCP help me create lots of ad variations?

It automates the repetitive work of creating multiple assets. Instead of making them one by one, you tell your agent to generate a 'collection' using `create_collection`. This saves hours and ensures every variation uses the same consistent design template.

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## 02 Can I use this MCP for video content, or just pictures?

It handles both. You can use it to generate full videos by providing data frames and choosing a video template using `create_video`. It's great for animated ads or promotional reels.

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## 03 Do I need to open Bannerbear when I use the MCP?

No. You connect your API key once, and then you interact with it purely through natural language with your agent. You never have to log into the design platform itself.

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## 04 What if my image generation fails? Can I fix it using the Bannerbear MCP?

You can always check the status of any asset you create by calling `get_image`. This confirms if the process finished successfully and gives you a direct link to download the final result.

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## 05 Is this good for developers building dynamic content sites?

Yes. It's perfect for automating things like Open Graph images or custom PDF report generation, allowing your agent to produce visual assets directly from code workflows.







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# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://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
 <b>Claude AI</b>	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 <b>Cursor</b>	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 <b>VS Code</b>	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"bannerbear-image-gen": { "url": "..."} </code>
 <b>Windsurf</b>	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 <b>ChatGPT</b>	Settings → Tools & plugins → Add MCP server → Paste endpoint
 <b>Gemini</b>	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

# Bannerbear (Image Gen) 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](https://cloud.vinkius.com) →

[vinkius.com](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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