MCP SERVER | NO CODE | CLOUD HOSTED

Vectorizer AI MCP

Turn Pixels into Perfect Vector Paths.

Vectorizer AI converts any bitmap image—like JPG or PNG logos—into clean, infinitely scalable vector graphics. It uses advanced tracing to produce editable SVG, EPS, PDF, and DXF files suitable for professional printing, engineering, or web use.

A+ Quality Score 100/100

vectorization | svg-converter | image-processing | graphic-design | ai-tracing

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vinkius.com/mcp/vectorizer-ai

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.

Vectorizer AI MCP

4 tools available
Cloud-hosted on Vinkius

Need to take a picture of a logo but end up with fuzzy edges? This MCP fixes that. You connect it through Vinkius and let your AI agent handle the heavy lifting. Instead of dealing with pixelated JPEGs, you get true vector paths. It traces complex images—like hand-drawn sketches or detailed artwork—and converts them into industry-standard formats like SVG or DXF. This means the file isn't just a picture; it's geometry. Graphic designers can quickly turn client logos into editable files, and engineers can generate precise blueprints for CNC machines directly from reference photos. It’s all about getting clean, perfect data every time your agent needs to scale up or cut something physical.

Core Capabilities

01 — Convert bitmaps to vectors

The MCP traces JPG, PNG, and BMP files into scalable vector formats like SVG, EPS, PDF, and DXF.

02 — Check usage credits

Use get_account_status to fetch your remaining subscription credits and overall account status before starting a job.

03 — Download finished assets

download_image lets you retrieve the final vector output or specific additional formats once processing is complete.

04 — Clean up stored images

delete_image allows manual removal of any image tokens that were stored during a prior session for cleanup.

One Click on Vinkius — From Prompt to Execution

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

01 First, you subscribe to the Vectorizer AI MCP and provide your API ID and Secret key to your AI client.

02 Next, your agent calls the vectorize_image tool, passing it the bitmap image and specifying the desired vector output format (e.g., SVG or DXF).

03 The service processes the tracing algorithms, and you get a tokenized result that allows you to use download_image to grab the final, high-quality vector file.

The bottom line is: your agent handles all the setup and fetching; you just tell it what image needs converting and what format you need it in.

Built For

This MCP is for anyone who works with physical fabrication or digital assets where quality matters. If you're a graphic designer whose clients complain about logo scaling, or an engineer needing precise cutting plans from photos, this saves hours of manual clean-up.

Graphic Designer

Uses the MCP to automatically convert client logos and raster sketches into perfect, editable vector files for print media.

Mechanical Engineer

Generates precise DXF files from scanned reference images so those designs can be immediately used in CNC or laser cutters.

Web Developer/Content Creator

Upscales low-resolution website assets into infinitely scalable SVG format without losing detail, ensuring consistency across all screen sizes.

What Changes When You Connect

01 Scalability: Forget low-res images. You can convert any bitmap logo and scale it up forever without quality loss, getting true vector paths with the vectorize_image tool.

02 Engineering Precision: Need blueprints for cutting? The MCP generates DXF files directly from reference photos, letting engineers run jobs on CNC machines immediately.

03 Design Flexibility: It supports multiple formats like SVG, EPS, and PDF. This means your design output works seamlessly whether it's going to a website or an offset printer.

04 Workflow Control: You can check your account status using get_account_status before running big jobs, so you never get stuck mid-project with zero credits.

05 Clean Output: The advanced processing options let you fine-tune the tracing results—setting custom palettes or minimum shape areas for cleaner vectors.

Real-World Applications

Client logo needs professional scaling

A graphic designer gets a blurry PNG of a client's old logo. Instead of manually cleaning it up, they ask their agent to use the MCP's vectorize_image tool to convert the bitmap into an SVG. They get a clean, scalable file ready for print.

Creating CNC machine templates

An engineer has reference photos of metal parts that need laser cutting. The agent feeds these images into the MCP and uses the vectorize_image tool to generate accurate DXF files, skipping manual CAD work entirely.

Optimizing web assets on the fly

A content creator uploads a low-res JPG of an icon. The agent uses the MCP's vectorize_image tool to convert it into an SVG format, which is perfect for modern websites and ensures sharp rendering across all devices.

Patterns to Avoid

Using simple image compressors

✗ AVOID

Trying to use a basic online converter or compressor just because the image looks 'good enough' in JPG format.

✓ INSTEAD

If you need an editable, scalable file for professional work, don't compress it. Use the MCP's vectorize_image tool to guarantee true vector paths (SVG/DXF) that maintain quality at any size.

Assuming all formats are equal

✗ AVOID

Taking a PDF exported from Illustrator and assuming it can be used for laser cutting, only to find out the geometry is wrong.

✓ INSTEAD

For fabrication, you need machine-readable data. Always use the MCP's vectorize_image tool and request DXF format to get actionable files for CNC/laser cutters.

Ignoring API limits

✗ AVOID

Running dozens of high-resolution conversions without checking if your account has enough credits, leading to project failure.

✓ INSTEAD

Before a major batch run, call the get_account_status tool. This lets you know exactly how many vectors you can generate before starting.

The Right Fit

Use this MCP if your core need is transforming pixel-based images into geometrically accurate, editable vector paths. You must be moving beyond simple visual display and into design, print production, or physical manufacturing. If the output needs to be scaled infinitely without quality loss, or fed into specialized software like CAD programs, this tool is required. Don't use it if you just need to crop an image or change its color slightly; those are simpler tasks. Also, don't rely on it for complex, proprietary file types that aren't standard bitmaps. If your process involves converting a raster source (JPG/PNG) into a vector target (SVG/DXF), this is the right tool.

Dealing with blurry logos and fuzzy edges.

Today, if you get a logo or sketch from a client, it usually comes as a JPG or PNG. If you try to scale that up for a billboard or print banner, the pixels stretch, the lines blur, and suddenly your brand looks cheap. You spend time trying to clean up these fuzzy edges in multiple programs, manually fixing every corner.

With this MCP, you feed the blurry image into your agent, specify what format you need—say, SVG—and it does the heavy lifting. Instead of spending an hour wrestling with pixels, you get a mathematically perfect vector file that scales to any size without losing detail. You just get clean paths.

Getting Vector Paths with the vectorize_image tool

Manual work used to require multiple specialized software programs: one for tracing, another for cleaning up color palettes, and a third for exporting the final format. You'd have to copy data from one program into another, introducing errors every time.

Now, your agent handles the entire chain in one go. You tell it the source image and the destination format (e.g., DXF), and the MCP executes the full conversion cycle. It’s a single step that delivers production-ready geometry.

Vectorizer AI with 4 Tools

These four tools give you complete control over the image conversion process, from checking your credits to downloading final, clean vector graphics.

#	TOOL	DESCRIPTION
01	`get_account_status`	Checks your subscription status and tells you how many credits you have left for vectorization jobs.
02	`delete_image`	Removes a stored image token manually, clearing out old data that was uploaded during processing.
03	`download_image`	Retrieves the finished vector file or alternative formats using an existing image token.
04	`vectorize_image`	Converts a pixel-based bitmap image into a scalable vector format like SVG, EPS, PDF, or DXF.

See It in Action

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

U Vectorize this logo from https://example.com/logo.png into an SVG.

I've started the vectorization process for your image. The AI is tracing the bitmap to create a clean SVG file. You can download the result using the provided token.

U I have an image token 'v_12345'. Can you download it as a DXF file for CNC?

Fetching the DXF version for token 'v_12345'... I've generated the download link for your CNC-compatible file.

U Check my Vectorizer AI account balance.

Your Vectorizer AI account currently has 450 credits remaining. Your account status is active.

Frequently Asked Questions

01 **What file types does Vectorizer AI support converting?**

It converts bitmap images like JPG, PNG, and BMP into vector formats including SVG, EPS, PDF, and DXF.

02 **How do I check my usage limits with the Vectorizer AI MCP?**

You use the get_account_status tool. This immediately tells you your current subscription status and how many credits are left for conversion jobs.

03 **Can I generate files for CNC machines using Vectorizer AI?**

Yes, absolutely. You run the vectorize_image tool and specify DXF as the output format to get machine-ready file geometry.

04 **If I finish a job, how do I download the resulting image?**

After vectorization is complete, you call the download_image tool. This gives you a tokenized link from which you can retrieve your finished assets in various formats.

05 **Does Vectorizer AI help me with my design workflow?**

It lets you quickly convert client sketches or low-resolution logos into professional, editable vector graphics right inside your agent environment.

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 `"vectorizer-ai": { "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

Vectorizer AI 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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