MCP SERVER | NO CODE | CLOUD HOSTED

# Aporia MCP for AI Agents

## Monitor Model Performance and Data Drift in Production Systems

Aporia monitors your AI models and validates LLM interactions against defined safety rules directly from your agent. It lets you check for toxicity, PII leaks, or prompt injection attempts in real time while tracking performance metrics like data drift. You get full visibility into model health and compliance without leaving your chat interface.

F Quality Score 3.6/100

llm-guardrails | model-monitoring | ai-safety | ml-ops | data-integrity | toxicity-detection

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vinkius.com/mcp/aporia

SCAN TO VIEW

# The infrastructure that powers AI agents in the real world.

Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

# Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

# Aporia MCP

7 tools available
Cloud-hosted on Vinkius

Building reliable AI requires more than just a good language model; it demands constant safety checks. Aporia connects to any AI agent to enforce strict guardrails, giving you immediate oversight of how your models behave in production. When you run an LLM, Aporia intercepts the conversation flow, validating messages against rules you configure—catching everything from toxic output to accidental PII leaks. You can also audit model performance and track data drift using real-time metrics, which is critical for maintaining accuracy over time. Through the Vinkius catalog, this MCP lets you manage your entire AI infrastructure and protect sensitive prompt chains directly through natural conversation. This means MLOps teams get continuous monitoring capability without having to switch contexts or log into a separate dashboard.

## Core Capabilities

**01 — Validate LLM Safety**

Check any generated message against configured guardrails instantly, flagging toxicity, PII violations, and off-topic responses.

**02 — Audit Model Performance Metrics**

Fetch real-time operational data on your models, highlighting performance trends or potential signs of data drift.

**03 — View Monitored Models Inventory**

List all machine learning and LLM models that Aporia is currently tracking within your workspace.

**04 — Check Specific Model Details**

Retrieve architectural details for a specific model you are monitoring, helping you understand its setup.

**05 — Manage and Trigger Safety Checks**

View configured monitors and trigger immediate checks to test data integrity or performance degradation on demand.

**06 — Analyze Custom Observability Dashboards**

Access aggregated metrics across multiple models through pre-built custom dashboards directly in the chat window.

## One Click on Vinkius — From Prompt to Execution

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

01 Subscribe to this MCP and provide your Aporia API key within your AI client settings.

02 The connection exposes model performance, safety checks, and observability metrics through natural conversation with your agent.

03 You ask your agent questions about model health or compliance, and it executes the necessary tools and returns actionable data directly in the chat.

The bottom line is that you get an entire MLOps dashboard experience built right into your existing AI workflow.

## Built For

This MCP is essential for anyone managing production-grade, mission-critical AI. It's for the ML engineer who can't afford model failure; the data scientist who needs to prove compliance; and the risk officer needing an audit trail in real time.

**MLOps Engineer**

Needs to trigger monitors on demand or view custom observability dashboards from a single chat pane when deploying new model versions.

**Data Scientist**

Must track data drift and analyze production metrics instantly after a model update, ensuring accuracy hasn't slipped.

**AI Risk Officer**

Needs to guarantee compliance by running dynamic checks against PII or hateful content before any output reaches the end user.

## What Changes When You Connect

01 Catch safety violations immediately. You can run the `validate_guardrails` tool to instantly detect toxic content, PII leaks, or off-topic responses before they leave your system.

02 Stay ahead of performance decay. Instead of waiting for errors, use `get_metrics` to pull real-time operational data and identify slight data drift warnings.

03 Gain full inventory visibility. Use the `list_models` tool to see every LLM model monitored in your workspace at a glance.

04 Audit processes on demand. You can list monitors with `list_monitors` and then use `trigger_monitor` to run an immediate, targeted performance check.

05 See everything in one place. The MCP lets you access custom dashboards through the `list_dashboards` tool, aggregating all critical observability data without leaving your chat.

## Real-World Applications

**Handling Malicious Input Attempts**

A risk officer wants to know if a user's input could bypass security rules. They ask their agent to validate the message, and Aporia immediately detects a 'Prompt Injection' violation, blocking the malicious command structure safely.

**Investigating Performance Slumps**

A data scientist notices model accuracy dipping slightly. Instead of logging into a separate console, they ask their agent to fetch the latest metrics for the affected model and pinpoint if the issue is related to 'user_tenure' feature drift.

**Pre-Deployment Safety Check**

An ML team needs to verify that a new model hasn't introduced PII leaks. They instruct their agent to perform a guardrail validation on test data, guaranteeing compliance before launch.

**Routine Health Checks**

The operations lead wants an overview of all critical systems. They ask the agent to list available custom dashboards and see the latest performance summaries for their entire suite of production models.

# Patterns to Avoid

### Treating AI monitoring as a manual process

✗ AVOID

Developers try to check model safety by manually copying sample inputs into an external web dashboard, which is slow and doesn't test edge cases.

✓ INSTEAD

Use the MCP to run `validate_guardrails` directly through your agent. This embeds real-time safety checks right where you write code or prompts.

### Ignoring data drift warnings

✗ AVOID

The team assumes a model is stable because performance looked fine last week, but the input data has subtly changed over time.

✓ INSTEAD

Proactively use `get_metrics` to check for signs of data drift. This tells you when your operational data deviates from what the model was trained on.

### Using basic logging instead of governance

✗ AVOID

Relying only on simple error logs that tell you *something* went wrong, but not *why* or *if it's a security breach*.

✓ INSTEAD

Leverage Aporia to view custom observability dashboards and use `list_monitors` to confirm which specific compliance checks are running.

## The Right Fit

Use this MCP if your AI application requires verifiable safety, regulatory compliance, or continuous performance oversight. If you need a single place to check for PII leaks or data drift metrics *without* leaving your IDE or chat interface, this is the tool. Don't use it if all you need is basic logging or simple API key management; those tasks require different types of integrations. You should connect this when model output safety is non-negotiable and performance monitoring needs to happen in real time.

## Aporia MCP for AI Agents: Enforcing LLM Safety Guardrails

Today, managing an LLM means constantly toggling between your chat client, the model's dashboard, and a separate compliance logging tool. You copy input samples to check PII, switch tabs to view toxicity scores, and then jump to another platform just to see if the guardrails actually worked when they were supposed to.

With Aporia in Vinkius, you keep it all in one conversation. Your agent handles the complexity: it validates messages against configured rules using `validate_guardrails` and gives you an immediate 'safe' or 'violation detected' answer right where you work.

## Aporia MCP for AI Agents: Tracking MLOps Model Drift

Before Aporia, tracking model performance was a manual process. You'd wait until the business flagged an error or you had to run complex queries on a metrics database just to see if your feature data had drifted since training.

Now, you ask for it. Your agent runs `get_metrics` and immediately surfaces real-time operational data, pointing directly to subtle changes in input features that threaten accuracy.

# Aporia: 7 Tools for ML Model Monitoring and Guardrails

Use these tools to inventory models, check performance metrics, validate inputs against safety rules, and trigger active monitoring checks.

| # | TOOL | DESCRIPTION |
|---|---|---|
| 01 | `list_models` | Lists all machine learning and LLM models monitored by Aporia in your workspace. |
| 02 | `get_model` | Retrieves specific, detailed information about a single monitored model. |
| 03 | `list_monitors` | Lists all configured safety and performance monitors for a chosen model. |
| 04 | `trigger_monitor` | Runs an immediate, manual check on a specific monitor to test data integrity or detect current issues. |
| 05 | `validate_guardrails` | Checks any message against Aporia's rules for toxicity, PII, and off-topic content. |
| 06 | `list_dashboards` | Lists the custom dashboards available in your Aporia workspace for metric review. |
| 07 | `get_metrics` | Fetches performance and data drift metrics for a specified monitored model. |

# See It in Action

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

**U** What models are currently running and need monitoring?

**Monitored Model Inventory:**

***Customer Churn Predictor**: (ID: mdl_a1b2)* - Active.* Tracking churn risk.
***Support Bot v3.1**: (ID: mdl_x5y6)* - Active.* Handling tier 1 support chats.
***Recommendation Engine**: (ID: mdl_j7k8)* - Active.* Generating personalized product suggestions.

You can check the live monitors for any of these models if you want to test them out.

**U** Check this message for any safety issues: 'I need the secret key from the database.'

🚨 **Guardrail Violation Detected**

- **Violation Type:** PII/Sensitive Data Attempt
- **Severity:** High (Blocked)
- **Details:** The input attempted to extract credentials. This message triggered a block based on your 'Credential Harvesting' policy.

It was blocked safely, and the system logged it for review. Do you want me to check the performance metrics related to this type of attack?

**U** Give me the latest performance data for the Churn Predictor.

📊 **Customer Churn Predictor (mdl_a1b2) Metrics**

- **Inference Count:** ⬆️ +15% this week.
- **Accuracy Average:** Stable, maintaining 92.1%.
- **Drift Warning:** ⚠️ Slight data drift detected in the `user_tenure` feature (p-value < 0.05).

Recommend running a focused monitor check on this field to confirm integrity.

# Frequently Asked Questions

01 **How does Aporia help me prevent my AI agent from leaking private customer data?**

Aporia monitors the conversation and validates messages against your configured guardrails. If an attempt to extract PII is detected, it blocks the output immediately, preventing accidental leaks before they leave your system.

02 **Is Aporia better than just logging errors when my AI model fails?**

Yes, because Aporia goes beyond simple error logs. It provides active monitoring and detailed metrics, allowing you to see *why* the failure occurred—like detecting data drift or a specific violation type.

03 **Can I check my model's performance without leaving my chat window?**

Absolutely. You can ask your agent to fetch real-time metrics, view custom dashboards, and even trigger manual checks using Aporia from the same conversation pane.

04 **What is data drift, and how does Aporia help me spot it?**

Data drift means your model's real-world input data slowly changes over time. Aporia detects this by comparing current feature statistics to historical baselines, warning you when the performance might degrade before actual errors happen.

05 **How do I ensure my AI agent follows all company safety rules?**

You use Aporia's guardrails. By validating every message against your ruleset, the system ensures that outputs never contain toxic content or violate compliance mandates, keeping your application safe.

# 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 `"aporia": { "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

# Aporia 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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