

MCP SERVER

NO CODE

CLOUD HOSTED

# Aliyun VOD MCP for AI Agents

Orchestrate complex digital media pipelines and audit video metadata

Aliyun VOD MCP connects your AI agent directly to Alibaba Cloud's professional video processing pipeline. It lets you manage massive digital asset libraries, generate secure playback links on demand, and audit complex media metadata all through natural conversation.

**A+** Quality Score 100/100

video-processing

media-orchestration

transcoding

asset-management

playback-authorization

video-metadata



# 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

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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.

# Aliyun VOD / 阿里云 视频点播 MCP

8 tools available

Cloud-hosted on Vinkius

Managing a large-scale video library used to mean logging into multiple proprietary consoles just to find basic information or check link validity. This MCP changes that. You can talk to your agent about your entire digital asset management process—from finding specific content to checking its technical details and even deleting old assets. Your AI client acts like an expert media operations specialist, giving you accurate results instantly without forcing you to navigate complex UIs. When you connect this VOD MCP via the Vinkius catalog, your agent becomes a single point of truth for all things video metadata and playback authorization.

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## Core Capabilities

### 01 — Search Video Assets

Find specific videos across your entire library using text matching or filtering by defined media categories.

### 03 — Generate Secure Playback Links

Automatically create authorized URLs that allow users to stream content at different definitions (SD, HD, Full HD).

### 05 — Audit Media Library Health

List all stored videos or review available transcode template groups to ensure consistent processing standards across your content.

### 02 — Retrieve Detailed Video Information

Get comprehensive technical metadata for any video, including its duration and current processing status.

### 04 — Manage Upload Credentials

Get fresh tokens and addresses needed to initialize direct video uploads into the system.

# One Click on Vinkius — From Prompt to Execution

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

- 01 Subscribe to this MCP and provide your Aliyun AccessKey ID and Secret.
- 02 Connect the credentials to your preferred AI client (like Cursor or Claude).
- 03 Ask your agent questions like, 'What are the play URLs for video X?' The agent executes the request and returns the necessary data.

The bottom line is: you talk naturally about your media assets, and the MCP handles all the complex backend API calls to give you a simple answer.

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## Built For

This MCP is essential for any professional who deals with massive amounts of video content. It's perfect for Media Operations teams needing automated metadata updates, Product Managers auditing asset compliance, or Developers integrating robust media pipelines into their applications.

### Media Operations Specialist

Managing the life cycle of thousands of videos—listing assets, deleting obsolete files, and checking overall library health without manual console navigation.

### Product Manager (Digital Content)

Verifying playback availability or searching for specific content segments to confirm compliance before a major product launch.

### Software Developer

Integrating reliable, professional-grade video asset management and secure URL generation into custom internal tools or applications.

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## What Changes When You Connect

- 01 Stop clicking through multiple dashboards. Your agent handles everything, allowing you to list all stored videos or perform a deep content search just by asking a question.

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- 02 Generate playback authorization instantly. Instead of manual link creation, the agent provides secure play URLs for any defined video ID across different definitions.

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  - 03 Streamline uploads and asset cleanup using dedicated tools. Use `create_upload_auth` to get fresh credentials or call `delete_media` to permanently remove outdated content.

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  - 04 Gain complete visibility into your assets. You can use `get_media_metadata` for a full technical audit, confirming video duration and current processing status in seconds.

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  - 05 Maintain consistency across the board. Check available transcode template groups by listing them or using `list_categories` to keep your content standards high.
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## Real-World Applications

### Conducting a Digital Content Audit

A PM needs to know which videos are compliant. They ask their agent to search the library for all assets tagged 'training' and then use `get_media_metadata` on each result to confirm they haven't exceeded their maximum file size.

### Onboarding New Content Creators

The ops engineer asks their agent to refresh upload tokens using `refresh_upload_auth`. The agent provides the correct, current credentials so the creator can start uploading immediately without delay.

### Coordinating a Live Video Distribution

A marketing team needs temporary viewing links. They prompt the agent with a list of video IDs, and the MCP uses `get_playback_info` to generate all necessary secure URLs for immediate use.

### Archiving Old Project Footage

A project manager wants to clean up storage. They prompt the agent to list all media older than two years using `list_media`, and then call `delete_media` on confirmed obsolete assets.

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# Patterns to Avoid

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## Manual URL Generation

### ✗ AVOID

Having to navigate the VOD console, find a video ID, and manually copy-paste multiple URLs for SD, HD, and Full HD definitions into an email.

### ✓ INSTEAD

Just tell your agent, 'Get all authorized play URLs for this project.' The MCP uses ``get_playback_info`` and gives you structured links immediately.

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## Forgetting Asset Metadata

### ✗ AVOID

Assuming a video is ready to publish because it's in the library, only to discover later that its actual technical status or duration isn't recorded anywhere.

### ✓ INSTEAD

Use ``get_media_metadata`` on any asset ID. This confirms the true technical details and current processing state before you share anything.

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## Ignoring Storage Cleanup

### ✗ AVOID

Leaving massive amounts of obsolete, unneeded video files taking up space because manual auditing is too time-consuming.

### ✓ INSTEAD

Use ``list_media`` to see everything and then use the agent to call ``delete_media`` on confirmed junk assets. It's fast cleanup.

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## The Right Fit

You need this MCP if your job involves managing a high volume of video content, metadata, or distribution links daily. If you constantly ask 'Where are those links?' or 'What is the status of that file?', this is for you. Don't use it if your only goal is to view a single asset; in that case, direct console access works fine. However, if you need repeatable, auditable actions—like bulk searching with `search_vod_media`, refreshing credentials with `refresh_upload_auth`, or ensuring content standards by checking templates—this MCP provides the structured workflow your AI agents require.

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## Managing Aliyun VOD Assets: Streamlining Video Metadata Audits

Right now, auditing a video library is a nightmare. You have to jump between pages, manually pull up each file's details in one tab, and check its technical specs—the duration, the format, if it's even finished encoding. It involves copying IDs and opening dozens of tabs just to compile a single compliance report.

With this MCP, you simply ask your agent for the audit. The system runs `list_media` and then systematically calls `get_media_metadata` on every result. You get one clean summary in the chat: a list of assets with all their crucial metadata points compiled instantly.

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## Aliyun VOD Playback Management: Generating Secure Streaming Links

The old way was asking an administrator for a set of links, often receiving static URLs that might expire or only work at one quality level. If you needed multiple definitions—say, SD for mobile and Full HD for web—you had to repeat the process.

Now, your agent handles it all. You tell the MCP which video ID needs linking, and it uses `get_playback_info` to generate a comprehensive set of secure URLs across all available quality definitions right in one go.

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## 8 Tools for Aliyun VOD Media Orchestration and Asset Search

Use these tools to list media, check technical details, manage credentials, or perform bulk actions across your video library.

#	TOOL	DESCRIPTION
01	<code>create_upload_auth</code>	Generates the necessary credentials to start uploading a new VOD video file.
02	<code>delete_media</code>	Permanently removes a specified VOD video asset from the platform.
03	<code>get_media_metadata</code>	Retrieves detailed technical information about an existing video file, such as its duration and status.
04	<code>get_playback_info</code>	Creates secure, temporary play URLs for a given video ID across multiple definitions (SD, HD, Full HD).
05	<code>list_categories</code>	Shows all established media categories within your VOD project.
06	<code>list_media</code>	Lists a general directory of the video assets stored on the platform.
07	<code>refresh_upload_auth</code>	Renews your upload token and address, useful when initial credentials expire or need updating.
08	<code>search_vod_media</code>	Searches the video library using keywords and filters to locate specific content.

## See It in Action

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

- U** List the 15 most recently added videos that are categorized under 'Product Demos' and what their current status is.



### Media Audit Report: Product Demos

VIDEO NAME	VIDEO ID	CATEGORY	STATUS
Q2_Launch_Trailer	88210934	Product Demo	Normal
Feature_Update_v3	77345612	Product Demo	Processing
Best Practices Guide	66231109	Education	Normal

*Note: 'Processing' means the transcode template is currently running.*

- U** I need secure play links for three videos. Two are from last month, and one needs to be deleted.



Got it. I've processed your request:

#### ✅ Play URLs Generated:

- Video ID `88210934` : [SD Link] | [HD Link]
- Video ID `77345612` : [SD Link] | [Full HD Link]

#### 🗑️ Action Taken:

The video with ID `66231109` has been permanently deleted from the library.

## U How do I get started uploading a new asset, and what are the current categories available?



Here's how you get set up:

**Step 1: Get Credentials.** First, we need to call `create_upload_auth` to generate your secure token and upload address.

**Available Categories:**

- Education (ID: 1024)
- Product Demo (ID: 2001)
- Internal Training (ID: 3500)

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## Frequently Asked Questions

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### 01 How can I manage video assets using the Aliyun VOD MCP for AI Agents?

You can ask your agent to perform almost any routine task, from listing every asset in your library to getting full technical metadata on a single file. It turns complex console navigation into simple conversation.

### 02 Do I need to worry about generating play links manually with the Aliyun VOD MCP for AI Agents?

No, you don't. The agent handles it automatically using `get_playback_info``. Just tell it which video ID needs links, and it provides secure URLs across all required definitions.

### 03 Can the Aliyun VOD MCP for AI Agents help me audit my entire media library?

Yes. You can ask your agent to list assets and then check their metadata in bulk, helping you confirm things like file status or duration without manually checking every single video.

### 04 What if I need to delete old videos using the Aliyun VOD MCP for AI Agents?

You can instruct your agent to identify and permanently remove obsolete assets. It uses a dedicated tool, making sure deletion happens correctly and safely.

### 05 Is the Aliyun VOD MCP for AI Agents better than using direct API calls?







It's much easier. Instead of writing complex code or dealing with multiple endpoints, you just talk to your agent. It handles all the underlying complexity for you.

# 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>"aliyun-vod": { "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

# Aliyun VOD / 阿里云视频点播 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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