

MCP SERVER

NO CODE

CLOUD HOSTED

Storage Unit Picker MCP for AI Agents

Plan your move by calculating exact storage space requirements for your belongings.

Storage Unit Picker. Calculate the exact storage unit size you need based on your specific items. It handles the math of volume and stacking efficiency so you don't overpay for space you won't use.

A+ Quality Score 100/100

storage

moving

volume-calculator

logistics

planning



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.

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

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.

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 — connect your AI agent in under 60 seconds.

Storage Unit Picker MCP

3 tools available

Cloud-hosted on Vinkius

The Storage Unit Picker helps you plan your move by figuring out exactly how much space you need for your belongings. Moving is a logistical headache where guessing usually leads to a stressful move day. You might end up overpaying for a unit that's too big or finding that your sofa won't fit because the space is too small. This MCP takes the guesswork out of the equation by calculating the total cubic footage of your items and applying a 70% vertical space utilization rule. This accounts for the reality of stacking gaps so you get a realistic footprint. When you find this in the Vinkius catalog, you're getting a way to plan your move with precision. Instead of scrolling through different unit listings and trying to do mental math, your agent tells you exactly which standard size like a 5x10 or a 10x20 is the best fit for your specific haul. It turns a vague question into a concrete plan.

Core Capabilities

01 — Browse a catalog of household items

Access a list of common household objects to identify what you're moving.

03 — Apply stacking efficiency rules

Adjust your volume requirements to account for gaps between stacked items.

05 — Provide specific unit dimensions

Get clear recommendations for standard 5×5, 10×10, or 20×20 unit sizes.

02 — Calculate total cubic footage

Get the total volume for a specific list of belongings.

04 — Match volume to unit sizes

Find the smallest standard storage unit that fits your total volume.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/storage-unit-picker — connect your AI agent in three steps.

- 01 Provide your AI client with a list of items you're moving or ask it to pull items from the catalog.
- 02 The agent calculates the total volume and applies a 70% stacking efficiency rule.
- 03 You get a specific recommendation for the smallest standard storage unit that fits your items.

The bottom line is you get a precise storage unit recommendation based on real-world stacking rules rather than just raw volume.

Built For

This is for anyone facing the stress of a move. Whether it's a homeowner downsizing, a business owner relocating office gear, or a logistics coordinator managing inventory, this tool solves the 'will it fit' anxiety.

Homeowner

Planning a cross-country move and trying to avoid overpaying for a unit that's too big.

Small Business Owner

Moving office furniture and equipment and needing to know the exact footprint for a new warehouse.

Logistics Coordinator

Calculating space requirements for moving multiple shipments and needing to account for stacking gaps.

What Changes When You Connect

- 01 Stop overpaying for extra space. Use `recommend_storage_unit` to find the smallest possible unit that fits your items perfectly.
- 02 Account for real-world stacking. The `calculate_required_volume` tool applies a 70% rule so you aren't surprised by gaps on move day.

- 03 Easily identify your inventory. Use `get_item_catalog` to see common items and ensure your list is accurate before calculating space.
- 04 Remove the mental math. Instead of manual calculations, let your agent handle the cubic footage and unit matching instantly.
- 05 Plan with confidence. Get a clear recommendation for standard sizes like 5×10 or 10×20 based on your actual inventory.

Real-World Applications

Downsizing a home

A user tells the agent they have a sofa, a king bed, and 20 large boxes. The agent calculates the volume and suggests a 10×10 unit.

Storage for a renovation

A homeowner wants to store kitchen cabinets and appliances for 3 months. The agent finds the best fit for those specific items.

Moving an office

A business owner lists 5 desks and 10 filing cabinets. The agent identifies the total volume and recommends a 10×20 unit.

Inventory planning

A logistics manager uses the catalog to create a list of items and gets a volume estimate for a new warehouse layout.

Patterns to Avoid

Guessing the size

✗ AVOID

Trying to guess if a 10×10 is enough without checking your actual items.

✓ INSTEAD

Use ``calculate_required_volume`` to get a number based on your actual inventory.

Ignoring stacking gaps

✗ AVOID

Adding up raw volumes and assuming you can fill 100% of the unit.

✓ INSTEAD

The tool automatically applies a 70% utilization rule to give you a realistic space requirement.

Manual math errors

X AVOID

Manually multiplying dimensions and adding them up in a spreadsheet.

✓ INSTEAD

List your items and let the agent do the math via ``calculate_required_volume``.

The Right Fit

Use this if you need to know exactly how much storage space your furniture or inventory will take up. It's perfect for move planning where you want to avoid paying for wasted space. Don't use this if you already have a specific unit booked and just need a general list of items; it's designed for the planning phase. Use a general inventory tool if you don't need volume calculations or unit matching.

Storage Unit Picker: Eliminate Moving Day Stress with Precise Space Planning

Moving house usually involves a lot of I hope this fits moments. You spend hours looking at unit prices, trying to visualize if your sofa, fridge, and boxes will actually fit in a 10x10 space without having to leave the door open. You end up either overpaying for a unit that's way too big or facing a nightmare on move day when the truck won't unload because there's no room left.

This MCP changes that by turning your inventory list into a concrete plan. You just tell your agent what you're moving, and it handles the math. It looks at the volume of your items, accounts for the fact that you can't stack everything perfectly, and tells you exactly which unit size like a 5x10 or a 10x20 you should book. You get a clear answer instead of a stressful guessing game.

Accurate Logistics with the Storage Unit Picker Volume Calculator

For businesses, moving equipment is a logistical puzzle. You have to account for pallet sizes, furniture dimensions, and the unavoidable gaps

With this MCP, you can quickly get a footprint for any set of items. It removes the need for manual spreadsheets and lets you see the real-world

between items. Doing this manually across multiple rooms or units is a recipe for errors that can delay your entire move or blow your budget on unnecessary storage costs.

volume requirements instantly. It's about getting the right size the first time, every time.

Storage Unit Picker: 3 Tools for Logistics Planning

Use these tools to catalog items, calculate volumes, and get accurate storage unit recommendations for your next big move or office relocation.

#	TOOL	DESCRIPTION
01	<code>calculate_required_volume</code>	Computes the total cubic footage needed for your items while accounting for stacking gaps.
02	<code>get_item_catalog</code>	Fetches a list of common household items to help you identify your belongings.
03	<code>recommend_storage_unit</code>	Matches your required volume to the smallest standard storage unit size available.

See It in Action

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

U I'm moving a 3-bedroom house. I have a sectional sofa, a king bed, 20 large boxes, and a dining table. How much space do I need?



Based on the items you listed, here is the space requirement breakdown:

- Sectional Sofa: 30 cu ft
- King Bed: 50 cu ft
- 20 Large Boxes: 200 cu ft
- Dining Table: 40 cu ft

Total Raw Volume: 320 cu ft

Adjusted Volume (70% Rule): 457.14 cu ft

Recommendation: A 10×20 storage unit is the smallest standard size that will comfortably fit your belongings.

U What's the smallest unit I can get for a home office with 5 desks and 10 filing cabinets?



For a home office setup with 5 desks and 10 filing cabinets, here is the estimated space needed:

- 5 Desks: 125 cu ft
- 10 Filing Cabinets: 150 cu ft

Total Raw Volume: 275 cu ft

Adjusted Volume (70% Rule): 388.90 cu ft

Recommendation: A 10×20 storage unit is your best bet for this equipment.

U I have about 300 cubic feet of stuff. What size unit should I look for?



For a requirement of 300 cubic feet, here is the best fit:

Required Volume: 300 cu ft

Recommendation: A 10×20 storage unit is the smallest standard size that meets your needs.

Frequently Asked Questions

01 How does the Storage Unit Picker help with moving?

It calculates the total volume of your items and tells you which storage unit size fits them best. This helps you avoid overpaying for space you don't need.

02 Can the Storage Unit Picker account for gaps between furniture?

Yes, it uses a 70% vertical space utilization rule to make sure the recommendation is realistic for actual stacking.

03 What kind of items can I include in my move?

You can use the catalog to select common household items like sofas, beds, and appliances to get accurate volume estimates.

04 Will the Storage Unit Picker tell me the exact dimensions of my furniture?

It uses standard volume estimates for common items to calculate your total space needs and recommend a matching unit size.

05 Is the Storage Unit Picker good for business moves?

Yes, it is excellent for calculating the footprint of office equipment and warehouse inventory to ensure a smooth relocation.

06 How do I know if I'm getting the right unit size?







The MCP matches your specific volume requirements to the smallest standard storage unit sizes available, giving you a clear plan.

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 <code>"storage-unit-picker": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → 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

Storage Unit Picker 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 · support@vinkius.com

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