

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Preparedness Storage Layout Plan MCP

Organize your emergency supplies using professional logistical rules.

Preparedness Storage Layout Plan MCP applies logistics principles like FIFO and the Accessibility Hierarchy to your emergency supplies. It helps you map out physical storage spaces, generate container labels, track restock needs, and plan walking routes for monthly safety inspections.

A+ Quality Score 100/100

emergency

organization

inventory

safety

logistics



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.

Preparedness Storage Layout Plan MCP

4 tools available

Cloud-hosted on Vinkius

Managing emergency supplies shouldn't be a guessing game. This MCP applies professional logistics logic to your household or organizational preparedness. Instead of just piling boxes in a corner, you use the Accessibility Hierarchy to ensure high-priority items stay within reach. It uses First-In, First-Out (FIFO) logic to prevent food and medical supplies from expiring in the back of a shelf, and the No-Blockage Rule to keep your storage areas navigable. You can use your AI client to build a logical map of your storage space, label every bin for quick identification, and set up a routine to check your inventory. It takes the mental load out of maintaining a stockpile by flagging exactly when you need to buy more items or when a specific supply is nearing its expiration date.

Core Capabilities

01 — Physical Layout Planning

Your agent uses the Accessibility Hierarchy to decide where items go.

02 — Inventory Monitoring

The MCP flags items that are low on quantity or nearing expiration.

03 — Label Generation

Your AI client creates text lists for bin identification.

04 — Safety Routing

The tool maps out walking paths for monthly inspections.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/preparedness-storage-layout-plan — connect your AI agent in three steps.

- 01 Connect your preferred MCP-compatible client to Vinkius.
- 02 Provide your current inventory or storage space details to your agent.
- 03 Ask the agent to generate a storage map or container labels.
- 04 Use the inspection route to perform regular physical checks.

Connect your AI client to Vinkius to start managing your logistics.

Built For

This MCP is for anyone managing physical stockpiles that require regular maintenance and logical organization.

Emergency Preparedness Coordinators

They hand off inventory data to the AI to identify restock needs.

Household Managers

They use the tool to organize family emergency supplies logically.

Logistics Officers

They use the inspection routes and storage maps to maintain facility readiness.

What Changes When You Connect

- 01 Reduces wasted supplies through FIFO rotation logic.
- 02 Speeds up item retrieval using accessibility-based layouts.
- 03 Ensures safety through structured monthly inspection paths.

04 Prevents inventory gaps by flagging restock triggers.

Real-World Applications

Home Emergency Kits

Organize food and medical supplies so they are easy to find during a crisis.

Bulk Food Storage

Apply FIFO rules to ensure grains and canned goods are rotated before they expire.

Warehouse Inventory Management

Use the inspection route tool to maintain safety standards in a storage facility.

Medical Supply Organization

Map out trauma kits and essential medicine in high-access zones.

Patterns to Avoid

Randomized bin placement

❌ AVOID

You throw all your canned goods and medical kits into the same large crate in the garage.

✓ INSTEAD

Use `get_storage_map` to organize items by priority so high-use supplies stay within reach.

Ignoring expiration dates

❌ AVOID

You check your pantry once a year and realize half the food is expired.

✓ INSTEAD

Run `identify_restock_triggers` to catch items that are nearing their end of life before they go bad.

Unstructured inventory checks

❌ AVOID

You walk into the storage room and try to remember what you have by looking at piles.

✓ INSTEAD

Follow the path created by `create_inspection_route` to ensure you check every single item systematically.

The Right Fit

Connect this MCP if you manage physical stockpiles that require regular maintenance or strict rotation. If you only keep a small, single-item kit that never changes, you don't need this. The decision comes down to whether your inventory requires active management to prevent waste.

Preparedness Storage Layout Plan Tools

These tools handle everything from physical floor plans to inventory tracking and bin labeling.

#	TOOL	DESCRIPTION
01	create_inspection_route	This tool builds a step-by-step walking path through your storage area. It helps you perform monthly safety and date checks without missing anything.
02	generate_container_labels	This tool produces a list of text labels for your storage bins. You use these to keep your organization clear and easy to navigate.
03	get_storage_map	This tool creates a logical layout for your supplies. It tells you how to distribute items across your available physical space based on priority.
04	identify_restock_triggers	This tool monitors your inventory levels and expiration dates. It flags specific items that you need to purchase to maintain your readiness.

See It in Action

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

U Generate a storage layout for my medical and food supplies.



I have generated a storage map that places your trauma kits and water in Active Zones for immediate access, while bulk grains are placed in Deep Storage.

U Create labels for my new storage containers.



I have created the following container labels: Container 1: Medical, Container 2: Food, Container 3: Water.

U What items do I need to restock?



You need to restock: First Aid Kits (Quantity low) and Canned Goods (Expiry approaching).

Frequently Asked Questions

01 How does this MCP organize my supplies?

It uses the Accessibility Hierarchy, FIFO, and the No-Blockage Rule to determine where items should be placed for maximum efficiency.

02 Can I use this with Claude or Cursor?

Yes, you can connect this MCP to any MCP-compatible client like Claude, Cursor, or Windsurf through Vinkius.

03 How do I know when to buy more supplies?

The `identify_restock_triggers` tool analyzes your current inventory and expiration dates to tell you exactly what needs to be replaced.

04 Does this help with physical organization?

Yes, the `get_storage_map` tool creates a logical layout for how to distribute your items across your physical space.

05 How do I keep my storage area safe?

You can use the `create_inspection_route` tool to get a step-by-step walking path for monthly safety and date checks.

06 How does the storage map respect weight limits?

The `'get_storage_map'` tool checks the weight of assigned items against the maximum safe load of each space. If an item exceeds the capacity, the tool will return an error to prevent structural failure.

07 What is the No-Blockage Rule?

The No-Blockage Rule ensures that high-frequency or heavy items are not placed behind other items, allowing immediate access without moving multiple supplies.

08 How can I know when to buy more supplies?

You can use the `'identify_restock_triggers'` tool. It flags items when they fall below a minimum threshold or when their expiry date is approaching within a safety window.

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>"preparedness-storage-layout-plan": { "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

Preparedness Storage Layout Plan 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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DOCUMENT INFORMATION

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Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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