

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

# Pet Food Package Calculator MCP

Get exact package counts for specific nutritional needs.

Pet Food Package Calculator MCP handles the math for pet food inventory and purchasing. It calculates how many bags you need to meet nutritional requirements, compares different package sizes for better value, and checks available options across product tiers. Your AI client uses these tools to make smarter buying decisions based on weight and tier.

**A+** Quality Score 100/100

pet-food

inventory

calculator

nutrition

shopping-assistant



# 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

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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.

# Pet Food Package Calculator MCP

4 tools available

Cloud-hosted on Vinkius

Managing pet food inventory shouldn't involve manual math every time you shop. This MCP gives your AI client the ability to handle weight-based calculations and package comparisons instantly. You can determine exactly how many bags of a specific size are required to meet a total food need. If you are looking at different product lines, the MCP can pull up available package sizes within specific tiers like Premium or Standard. It also helps you avoid overbuying by comparing different package sizes to find the most efficient option for your specific volume. Before you finalize a plan, the MCP can verify that your food needs and package sizes are actually compatible. It's a practical way to turn nutritional requirements into a clear shopping list.

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## Core Capabilities

### 01 — Inventory Math

Your agent calculates the number of bags needed based on total weight requirements.

### 02 — Tiered Product Lookups

The AI checks what sizes are available in specific product tiers like Premium or Standard.

### 03 — Efficiency Comparisons

Your client compares multiple package sizes to find the best coverage for a specific need.

### 04 — Data Validation

The MCP verifies that your food requirements and package sizes are compatible.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/en/ai-agent-connect/pet-food-package-calculator](https://vinkius.com/en/ai-agent-connect/pet-food-package-calculator) — connect your AI agent in three steps.

- 01 Connect your preferred MCP-compatible client to Vinkius.
- 02 Provide your pet's food requirements or a specific tier to your AI agent.
- 03 The agent uses the MCP tools to run calculations or look up options.
- 04 Receive a direct answer regarding package counts or efficiency.

The MCP connects your AI client to pet food inventory data for instant calculations.

## Built For

This MCP is built for anyone managing pet nutrition or food supplies who needs to convert weight requirements into physical units.

### Pet Care Managers

They hand off nutritional requirements to the AI to generate precise shopping lists.

### Inventory Specialists

They use the tool to compare package efficiencies for stock replenishment.

### Pet Nutritionists

They use the tool to verify that package availability matches a pet's dietary needs.

## What Changes When You Connect

- 01 Converts total weight needs into specific package counts.
- 02 Identifies the most efficient package size for any given volume.
- 03 Provides instant access to package sizes within different product tiers.

- 04 Prevents calculation errors by validating requirement consistency.
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## Real-World Applications

### Bulk Purchasing Decisions

Compare different bag sizes to see which one covers your total weight need most efficiently.

### Nutritional Planning

Turn a pet's specific weight requirement into a concrete number of bags to purchase.

### Tiered Inventory Checks

Quickly see what sizes are available in the Premium tier versus the Standard tier.

### Error Prevention

Check if your planned purchase actually meets the total weight requirement needed for the pet.

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## Patterns to Avoid

### Manual weight math

#### ❌ AVOID

You try to manually divide total pounds needed by bag weight in your chat window and hope the math is right.

#### ✓ INSTEAD

Let the agent do the heavy lifting by using ``get_package_count`` to get an exact number of bags.

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### Ignoring product tiers

#### ❌ AVOID

You assume a specific bag size is available in the Premium line without checking the actual stock.

#### ✓ INSTEAD

Run ``get_package_options_by_tier`` to see exactly which sizes are currently in that specific product tier.

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### Blind purchasing

#### ❌ AVOID

You buy a set of bags based on total weight but realize later they don't actually match your specific nutritional needs.

#### ✓ INSTEAD

Use ``validate_requirement_consistency`` to ensure your food needs and package sizes actually work together before you buy.

## The Right Fit

Connect this MCP if you manage pet food inventory or nutritional planning and need to turn weight requirements into shopping lists. Do not connect it if you only track qualitative data like flavor preferences. The decision depends on whether you need to convert weight into physical package counts.

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# Pet Food Package Calculator 4 Tools

These tools handle the math of converting weight requirements into physical inventory counts. They manage tier-based lookups and package efficiency comparisons.

| #  | TOOL                             | DESCRIPTION                                                                                                              |
|----|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 01 | compare_package_efficiency       | This tool compares different package sizes to find which one offers the best value for your specific food requirement.   |
| 02 | get_package_count                | This tool calculates the exact number of packages of a specific size you need to buy to meet a total weight requirement. |
| 03 | get_package_options_by_tier      | This tool lists all available package sizes within a specific product tier like Premium or Standard.                     |
| 04 | validate_requirement_consistency | This tool checks if your food needs and selected package sizes are compatible for a calculation.                         |

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## See It in Action

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

**U** How many 5kg packages do I need if my pet needs 12kg of food?



You will need 3 packages of 5kg to meet the 12kg requirement.

**U** What package sizes are available in the Premium tier?



The available sizes for the Premium tier are 2kg, 5kg, and 10kg.

**U** Which is better for a 20kg need: 2kg, 5kg, or 10kg packages?



The 10kg package is the most efficient, requiring only 2 packages.

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## Frequently Asked Questions

### 01 How does this MCP help with pet food shopping?

It calculates exactly how many packages of a certain size you need to buy to meet a specific weight requirement.

### 02 Can I compare different bag sizes?

Yes, the MCP can compare multiple package sizes to find the most efficient option for your specific food need.

### 03 Does it support different product tiers?

Yes, you can use the tool to see what package sizes are available in tiers like Premium or Standard.

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**04 What AI clients can I use with this MCP?**

You can use this MCP with any compatible client like Claude, Cursor, Windsurf, or VS Code.

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**05 How do I know if my calculation is correct?**

The MCP includes a tool to validate that your food requirements and package sizes are consistent and compatible.

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**06 How does the package count calculation work?**

The `'get_package_count'` tool divides the total food weight needed by the weight of a single package and rounds up to the nearest whole number to ensure full coverage.

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**07 Can I compare different package sizes?**

Yes, you can use `'compare_package_efficiency'` to find which package size minimizes the total number of packages you need to buy.

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**08 What product tiers are available?**

You can query available sizes for Premium, Standard, and Budget tiers using `'get_package_options_by_tier'`.

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# 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                                                                                      |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|  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>"pet-food-package-calculator": { "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

## Pet Food Package Calculator 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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LICENSE & USAGE

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