

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 Bed Calculator MCP

Manage your facility capacity and sleeping inventory with ease.

Pet Bed Calculator MCP helps facility managers track and plan sleeping accommodations. Use it to figure out how many beds you need for your current pet population, check if your current inventory can handle incoming animals, and predict how many more beds you'll need as your business grows.

A+ Quality Score 100/100

pets

capacity

facility

calculation

inventory



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.

Pet Bed Calculator MCP

4 tools available

Cloud-hosted on Vinkius

Running a pet boarding or kennel facility means constantly balancing your animal population against available sleeping space. This MCP gives your AI client the math skills to handle that logistics work for you. Instead of manually counting beds and checking spreadsheets, you can ask your agent to run the numbers on your current inventory or project future needs. You can check if you have enough room for a sudden influx of pets or look at how efficiently your current beds are being used. It takes the guesswork out of facility management by providing direct answers to capacity questions, helping you avoid overbooking or sudden shortages.

Core Capabilities

01 — Capacity Validation

Your agent checks if your current bed count can handle your planned pet numbers.

02 — Growth Forecasting

Your agent calculates how many more beds you need to buy to support future expansion.

03 — Utilization Tracking

Your agent monitors how many of your existing beds are actually in use.

04 — Requirement Calculation

Your agent determines the exact number of beds needed based on specific pet ratios.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/pet-bed-calculator — connect your AI agent in three steps.

- 01 Connect the MCP to your preferred client like Claude or Cursor via Vinkius.
- 02 Ask your agent a question about your current pet count or bed inventory.
- 03 The agent uses the specific tools to run the necessary calculations.
- 04 Your agent provides the direct answer or metric you requested.

Connecting this MCP to your AI client gives your agent immediate access to your facility's capacity math.

Built For

This MCP is built for professionals managing high-volume animal housing facilities.

Kennel Managers

They use the agent to verify if they can accept more bookings based on current bed availability.

Shelter Directors

They use the agent to plan for incoming animals and predict when they will need more equipment.

Facility Owners

They use the agent to monitor bed usage and plan for long-term facility expansion.

What Changes When You Connect

- 01 Prevents overbooking by validating capacity against current inventory.
- 02 Simplifies expansion planning with growth predictions.
- 03 Provides clear metrics on how well your beds are being utilized.

04 Removes manual math errors from capacity planning.

Real-World Applications

Booking Verification

Check if you have enough physical beds before confirming a large group booking.

Inventory Planning

Determine exactly how many new beds to order to meet your growth targets.

Operational Audits

Review bed utilization to see if you have too much or too little idle equipment.

Scaling Decisions

Use expansion estimates to decide when to invest in more facility space.

Patterns to Avoid

Guessing capacity during peak season

❌ AVOID

You tell your agent you have plenty of room for a holiday rush without checking your actual inventory. This leads to overbooking and stressed staff.

✓ INSTEAD

Ask your agent to run ``validate_facility_capacity`` before you confirm any large group bookings to ensure you have the physical beds available.

Reactive equipment purchasing

❌ AVOID

You realize you're out of space only when a new shipment of animals arrives. You end up panic buying beds at a higher cost.

✓ INSTEAD

Use ``estimate_expansion_needs`` to project your future requirements so you can order equipment well in advance of your growth targets.

Ignoring idle equipment costs

❌ AVOID

You assume all your beds are working hard, but half of them are sitting empty in a storage closet.

✓ INSTEAD

Run ``get_bed_utilization_metrics`` to see exactly how much of your inventory is actually in use and where you might be overstocked.

The Right Fit

Connect this MCP if you manage high-volume kennels, shelters, or boarding facilities where bed availability dictates your revenue. Do not connect it if you run a small, low-volume pet sitting service where manual counting is sufficient. The deciding factor is whether your facility capacity needs to be mathematically validated against incoming animal counts.

Pet Bed Calculator: 4 Specialized Logistics Tools

These tools handle the math for your animal housing capacity and growth forecasting. Your agent uses them to turn raw pet counts into actionable inventory plans.

#	TOOL	DESCRIPTION
01	estimate_expansion_needs	This tool predicts how many additional beds you'll need to accommodate future growth in your pet population.
02	get_bed_utilization_metrics	This tool provides an overview of how effectively your existing beds are being used.
03	get_total_bed_requirement	This tool calculates the minimum number of physical beds required for a specific number of pets.
04	validate_facility_capacity	This tool checks if your current physical bed inventory can support your planned pet population.

See It in Action

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

U How many beds do I need for 15 pets if each pet needs 1.2 beds?



You will need 18 beds.

U I have 10 beds. Can I accommodate 12 pets with a 1:1 ratio?



No, you are short by 2 beds.

U What is the utilization if I have 20 beds and 10 pets with a 1.0 ratio?



The utilization rate is 50%.

Frequently Asked Questions

01 What can this MCP do for my pet facility?

It calculates bed requirements, validates your current capacity, tracks bed usage, and predicts future expansion needs.

02 Which AI clients can I use with this MCP?

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

03 Do I need to host this myself?

No, Vinkius hosts and manages the MCP for you. You just connect your client and start using the tools.

04 Can I use this to plan for more pets next month?

Yes, you can use the expansion estimation tool to predict how many extra beds you will need for future growth.

05 How does it help with overbooking?

The validation tool checks your current physical inventory against your planned pet population to ensure you have enough beds.

06 How do I know if I have enough beds for my pets?

You can use the `validate\_facility\_capacity` tool to compare your current bed count against the required amount based on your pet population and allocation ratio.

07 Can I plan for future pet arrivals?

Yes, the `estimate\_expansion\_needs` tool helps you predict how many additional beds you will need to purchase to accommodate projected pet counts.

08 What is the allocation ratio?

The allocation ratio (beds per pet) defines how many beds are assigned to each animal. A ratio of 1.0 means one bed per pet, while 0.5 means two pets share one bed.

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>"pet-bed-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 Bed 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 →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Pet Bed Calculator MCP
Server ID	01a0ce91-a003-7288-8a49-878fa7f8ece2
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

LICENSE & USAGE

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