MCP SERVER | NO CODE | CLOUD HOSTED

Pet-Friendly Home Planner MCP.

Balance human furniture needs with essential pet movement zones.

Pet-Friendly Home Planner MCP uses deterministic logic to design living spaces that respect both human comfort and pet requirements. It manages furniture placement while ensuring feeding areas, sleeping zones, and clear walking paths remain unobstructed. You can use it within your AI client to generate, validate, and optimize room configurations for any pet-owning household.

A+ Quality Score 100/100

interior-design | pet-safety | room-layout | spatial-optimization | pet-friendly

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · SEPTEMBER 2026
vinkius.com/en/ai-agent-connect/pet-friendly-home-planner

SCAN TO VIEW

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.

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.

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.

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	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	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.

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.

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.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken 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.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

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-Friendly Home Planner MCP

4 tools available
Cloud-hosted on Vinkius

You can use this MCP to solve the friction between interior design and pet ownership. Instead of guessing where a dog bed or a cat tree should go, you provide your room dimensions and furniture list to your AI client. The MCP then runs a layout engine that treats pet movement paths and feeding zones as hard constraints, not afterthoughts.

If a layout puts a heavy armchair right in the middle of a cat's primary walking route, the engine catches it. You can iterate through different configurations until the space feels right for everyone in the house. It's a practical way to ensure your furniture doesn't turn your living room into an obstacle course for your pets. Whether you are working with a tiny studio or a large open-concept home, the logic ensures that human utility and pet safety exist in the same footprint.

Core Capabilities

01 — Deterministic Layout Generation

Your agent uses this to create initial room configurations based on exact dimensions.

02 — Safety Violation Detection

The AI uses this to identify blocked paths or inaccessible pet zones.

03 — Spatial Efficiency Analysis

Your agent runs this to see how well the room serves both people and animals.

04 — Collision Avoidance

The tool identifies when furniture blocks essential pet areas.

05 — Constraint-Based Re-planning

Your agent uses this to find new furniture positions when a layout fails safety checks.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/en/ai-agent-connect/pet-friendly-home-planner** — connect your AI agent in three steps.

01 Connect the MCP to your preferred client like Claude or Cursor via Vinkius.

02 Provide your room dimensions and a list of furniture items to your AI agent.

03 The agent uses the layout engine to generate a configuration.

04 Run safety checks to ensure pet paths are clear.

05 Request alternative placements if the layout hits a collision.

Get a pet-optimized layout by connecting the MCP to your AI client and providing room data.

Built For

This MCP is built for anyone designing living environments where pets are a primary consideration.

Interior Designers

Hand off room dimensions and furniture lists to the AI to get pet-safe baseline layouts.

Pet Owners

Use the tool to visualize how new furniture will impact their pet's ability to move around the house.

Architectural Technicians

Provide spatial constraints to the AI to validate floor plans for pet accessibility.

What Changes When You Connect

01 Prevents furniture from blocking essential pet movement paths.

02 Ensures feeding and sleeping zones remain accessible and unobstructed.

03	Uses mathematical logic rather than guesswork to place furniture.
04	Identifies spatial inefficiencies in small or crowded rooms.

Real-World Applications

Small Apartment Planning

Optimize a tight living area so a cat can still reach its feeding station without jumping over furniture.

New Furniture Integration

Check if a new large sofa will block a dog's path to its favorite sleeping corner.

Safety Auditing

Validate an existing room layout to ensure pet zones are not being encroached upon by human items.

Spatial Optimization

Analyze a room to see if there is enough usable space left for both human activity and pet zones.

Patterns to Avoid

Ignoring pet movement paths

AVOID

You design a beautiful living room layout and then try to squeeze a dog bed into a corner after the furniture is already placed.

✓ INSTEAD

Input your furniture list and room dimensions first, then use plan_room_layout to ensure pet paths are built into the initial design.

Guessing spatial efficiency

AVOID

You assume a new large sofa will fit in the studio apartment without checking if it blocks the cat's feeding station.

✓ INSTEAD

Run calculate_spatial_efficiency to see how much usable space remains for both you and your pets after the furniture is placed.

Accepting a failed layout

AVOID

Your first room configuration results in a blocked hallway, so you just give up on the design.

✓ INSTEAD

If a layout fails safety checks, use suggest_alternative_placement to find a new configuration that works.

The Right Fit

Connect this MCP if you are designing living spaces where pet accessibility is a requirement. Do not use it if you are designing purely aesthetic environments without animal inhabitants. The decision rests on whether pet movement paths are a hard constraint for your project.

Pet-Friendly Home Planner 4 Tools

These tools handle everything from initial room layout generation to safety audits and spatial efficiency checks.

#	TOOL	DESCRIPTION
01	`plan_room_layout`	This tool generates a complete room layout based on your specific dimensions and furniture requirements.
02	`suggest_alternative_placement`	This tool provides a new layout configuration if your initial plan fails or results in too many collisions.
03	`validate_pet_safety`	This tool checks your specific layout for safety violations, focusing on pet movement and zone accessibility.
04	`calculate_spatial_efficiency`	This tool analyzes how effectively the room utilizes available space for both humans and pets.

See It in Action

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

U Plan a layout for a 500×400cm room with a sofa (200×90cm) and a coffee table (100×50cm), requiring a feeding zone and a 100cm movement path.

The room layout has been successfully planned. The sofa is placed at (0,0) and the coffee table at (210,0). The feeding zone is established in the quiet corner at (400,300), and a clear 100cm movement path is maintained throughout the center.

U Check if this layout is safe: Room 300×300cm, Sofa at (0,0) size 200×100cm, Feeding zone at (250,250).

The layout is safe. There are no collisions between the sofa and the feeding zone, and the movement path remains unobstructed.

U Suggest an alternative layout for a small room where the furniture is blocking the pet's path.

A new layout has been generated with HIGH constraint strictness. The furniture has been shifted to the perimeter to prioritize a wide, unobstructed movement path for the pet.

Frequently Asked Questions

01 **How does this MCP ensure pet safety?**

It uses a layout engine that treats pet movement paths and specific zones, like feeding or sleeping areas, as essential constraints that cannot be blocked by furniture.

02 **Can I use this with Claude or Cursor?**

Yes, you can connect this MCP to any compatible client including Claude, Cursor, Windsurf, and VS Code.

03 **What happens if my furniture blocks a pet's path?**

You can use the suggestion tool to find an alternative placement that shifts furniture to prioritize unobstructed movement for the pet.

04 **Does this work for any room size?**

The tool works based on the dimensions you provide, allowing it to handle everything from small apartments to large homes.

05 **How do I get started?**

Simply subscribe through Vinkius to have the MCP hosted and ready, then connect it to your AI client with one click.

06 **How does the planner ensure pet safety?**

The engine uses `validate_pet_safety` to check for collisions between furniture and pet zones, ensuring that movement paths remain unobstructed and feeding/sleeping areas are accessible.

07 **What happens if my furniture doesn't fit in the room?**

If a layout fails, you can use `suggest_alternative_placement` with different strictness levels to prioritize either pet movement or human furniture fitting.

08 **Can I measure how efficiently the room is used?**

Yes, the `calculate_spatial_efficiency` tool provides metrics on furniture utilization, pet access ratios, and wasted space.

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 `"pet-friendly-home-planner": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → 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-Friendly Home Planner 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-Friendly Home Planner MCP
Server ID	`01a0c3d4-fa28-72b8-a469-4f61b066296a`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

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