

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

Bathroom Refresh Project Plan MCP

Turn renovation plans into a coordinated construction schedule.

Bathroom Refresh Project Plan MCP handles the messy logistics of home remodeling. It calculates when to buy fixtures so they arrive on time, writes technical briefs for your contractors, and plans how your family will manage without a working bathroom during the build. It keeps your project on track by identifying critical inspection points and managing the chaos of utility outages.

A+ Quality Score 100/100

renovation

bathroom

procurement

logistics

contractor



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.

Bathroom Refresh Project Plan MCP

4 tools available

Cloud-hosted on Vinkius

Renovating a bathroom is more than just picking out tile. It is a logistical headache involving lead times, contractor expectations, and the reality of living without a shower for a week. This MCP acts as your project coordinator. Instead of juggling spreadsheets, you give your AI client your measurements and fixture choices, and it handles the heavy lifting.

You can use it to time your purchases so you aren't paying for a vanity that sits in your garage for three months. It generates the technical specs your contractors actually need to avoid mistakes. Most importantly, it helps you plan for the disruption, mapping out how to manage your household when the water is turned off or the toilet is out of commission. It keeps you in control of the timeline and the quality of the work by flagging exactly when you need to step in and approve a specific stage of the build.

Core Capabilities

01 — Procurement Timing

Your agent calculates purchase dates based on fixture lead times.

02 — Technical Documentation

The AI generates specific briefs for contractors using your room measurements.

03 — Disruption Management

Your agent plans household workarounds for utility outages.

04 — Quality Control

The tool flags key milestones that require your manual approval.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/bathroom-refresh-project-plan — connect your AI agent in three steps.

- 01 Connect your AI client to the MCP via Vinkius.
- 02 Provide your room dimensions and fixture lead times to your agent.
- 03 Request a procurement schedule or a contractor brief.
- 04 Use the generated plans to manage your purchases and household logistics.

Connect your preferred AI client to the Vinkius hosted MCP to start coordinating your project.

Built For

Homeowners managing their own remodels and project managers looking for a lightweight coordination tool.

Homeowners

Use the MCP to coordinate deliveries and manage household disruptions.

Project Managers

Hand off technical specs and procurement schedules to your AI client.

Designers

Generate contractor briefs from client measurements and fixture selections.

What Changes When You Connect

- 01 Prevents project delays by syncing fixture arrivals with installation dates.
- 02 Reduces contractor errors through detailed technical handoff briefs.

-
- 03** Minimizes household chaos by planning for utility outages in advance.
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- 04** Ensures quality by highlighting necessary inspection milestones.
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Real-World Applications

Fixture Ordering

Calculate exactly when to buy a bathtub or vanity to avoid storage issues or project stalls.

Contractor Communication

Turn raw measurements into a professional brief for your plumbing or tiling crew.

Living Logistics

Plan how to handle a lack of running water or toilet access during the demolition phase.

Project Oversight

Identify the exact moments you need to visit the site to approve work before it is covered up.

Patterns to Avoid

Ordering fixtures too early

❌ AVOID

You buy a custom vanity the moment you decide on the color, only to have it sit in your garage for months.

✓ INSTEAD

Use ``generate_procurement_schedule`` to time your purchases so items arrive right when the installers are ready.

Vague contractor instructions

❌ AVOID

You tell your plumber the bathroom is roughly 5×8 and hope they figure out the plumbing layout themselves.

✓ INSTEAD

Run ``create_contractor_handoff_brief`` to turn your measurements into a technical document they can actually follow.

Ignoring the living situation

❌ AVOID

You start demolition on a Monday without thinking about how you'll shower or use the toilet for the next week.

✓ INSTEAD

Use ``plan_household_workaround`` to map out how to manage your daily life while the water is off.

The Right Fit

Homeowners and project managers should connect this MCP if they want to sync delivery dates with installation schedules. If you are just browsing tile colors and don't care about the logistics of a construction site, you don't need this. The deciding factor is whether you want an automated coordinator to manage your timeline and household disruptions.

Bathroom Refresh Project Plan 4 Tools

These tools handle the logistics of procurement, contractor handoffs, and household management during a remodel.

#	TOOL	DESCRIPTION
01	get_milestone_approvals	This tool identifies the specific project stages where you need to personally inspect and approve the work.
02	plan_household_workaround	This tool creates a practical plan to manage your daily living conditions while the bathroom is out of service.
03	create_contractor_handoff_brief	This tool generates a technical document for your contractors based on your room dimensions and chosen fixtures.
04	generate_procurement_schedule	This tool calculates exactly when you need to order fixtures to ensure they arrive before the installers need them.

See It in Action

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

U I want to finish my bathroom renovation by June 1st. I need a vanity (4 week lead time) and a new toilet (2 week lead time). The vanity must be installed during the finishing phase.



To meet your June 1st target, you should purchase the vanity by May 4th and the toilet by May 18th.

U My bathroom is 5×8 feet with an 8ft ceiling. I want to replace the tub with a walk-in shower and install a modern pedestal sink.



Technical Brief Generated: Scope includes tub-to-shower conversion and pedestal sink installation. Room dimensions: 5' x 8' x 8'. Fixture specs: Pedestal sink (dimensions to be provided).

U I am renovating my only bathroom. I need to remove the toilet and the shower. How will this affect my daily routine?



Critical Disruption Warning: Removing the toilet and shower will create a zero-utility state. It is recommended to use a guest bathroom or nearby facility during these specific task windows.

Frequently Asked Questions

01 How does this MCP help with bathroom renovation delays?

It uses the generate_procurement_schedule tool to calculate exactly when you need to buy items so they arrive in time for installation.

02 Can I use this with Claude or Cursor?

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

03 What happens if I am renovating my only bathroom?

The `plan_household_workaround` tool will identify the zero-utility state and suggest ways to manage your daily routine during the disruption.

04 How do I ensure the contractor follows my design?

You can use the `create_contractor_handoff_brief` tool to generate a technical document based on your specific measurements and fixture choices.

05 Does this MCP host my data?

Vinkius hosts and manages the MCP, allowing you to connect your AI client once to access the tools.

06 How do I ensure my fixtures arrive before the contractor starts?

Use the `'generate_procurement_schedule'` tool. By providing your fixture lead times and target completion date, it calculates exactly when you need to purchase each item to prevent downtime.

07 What happens if I only have one bathroom in my house?

The `'plan_household_workaround'` tool is designed for this. It identifies critical disruption periods and suggests mitigation strategies to help you manage living conditions when the bathroom is unusable.

08 Can I use this to prepare documents for my plumber or tiler?

Yes. The `'create_contractor_handoff_brief'` tool generates a technical document containing room measurements and fixture specifications, ensuring your contractors have the exact details they need.

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>"bathroom-refresh-project-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

Bathroom Refresh Project 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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