

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

# Board Quiver Planner MCP

Pack the right boards for any wave conditions.

Board Quiver Planner MCP helps you build the perfect surfboard lineup for your next trip. It calculates board types, volume needs, and size requirements based on your skill level and the waves you expect to find. You can also check if your gear fits in your travel bags and identify if you're missing a specific board type for the swell.

**A+** Quality Score 100/100

surfing

travel-planning

equipment

sports-gear

optimization



# The connectivity layer between AI and the world's software.

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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.

# Board Quiver Planner MCP

4 tools available

Cloud-hosted on Vinkius

Stop guessing which boards to pack for your next surf trip. This MCP takes the guesswork out of gear selection by matching your skill level and the local swell forecast to a specific set of recommendations. You can use it to build a complete lineup from scratch or refine the boards you already own. It handles the math on volume adjustments and ensures you don't show up to a trip with a bag that won't close. If you're worried about having a gap in your kit, the MCP analyzes your current selection against the predicted wave heights to tell you exactly what's missing. It's a technical way to make sure you have the right tool for every wave, from small grovelers to heavy hitters.

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## Core Capabilities

### 01 — Quiver Generation

Your agent uses this to create a list of boards tailored to your skill and the swell.

### 02 — Baggage Validation

Your AI client uses this to check if your board dimensions fit your travel bags.

### 03 — Wave Gap Analysis

Your agent uses this to see if your gear is sufficient for the predicted wave heights.

### 04 — Volume Tuning

Your AI client uses this to suggest specific liter changes for better performance.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/en/ai-agent-connect/board-quiver-planner](https://vinkius.com/en/ai-agent-connect/board-quiver-planner) — connect your AI agent in three steps.

- 01
- Connect your client to the Board Quiver Planner MCP via Vinkius.
- 02
- Provide your skill level and the expected wave heights to your agent.
- 03
- Ask the agent to generate a quiver or check your current gear.
- 04
- Review the specific board types, volumes, and baggage compatibility results.

Connect your preferred AI client to Vinkius and start planning your gear.

## Built For

Surfers planning international trips or gear enthusiasts looking to optimize their setups.

### Surf Travelers

They hand off swell data and bag dimensions to ensure their gear is trip-ready.

### Surf Gear Enthusiasts

They use the MCP to calculate volume adjustments for new board purchases.

### Surf Trip Organizers

They use the tool to verify that a group's collective gear covers the local conditions.

## What Changes When You Connect

- 01
- Reduces the risk of packing boards that don't suit the local swell.
- 02
- Prevents baggage issues by checking dimensions before you reach the airport.
- 03
- Identifies performance gaps in your current equipment lineup.

- 04 Provides data-driven volume recommendations for better maneuverability.
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## Real-World Applications

### International Surf Trips

Plan a specific set of boards for a trip to a new destination with varying swell forecasts.

### New Board Selection

Determine the ideal volume for a new board based on your skill level and wave power.

### Travel Packing

Verify that your specific surfboard dimensions will fit within your airline's bag limits.

### Gear Auditing

Check if your existing quiver is sufficient for a specific swell range.

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## Patterns to Avoid

### Ignoring baggage constraints

#### ❌ AVOID

You plan a massive quiver for a trip to Indonesia without checking if your boards actually fit in your bags.

#### ✓ INSTEAD

Run your gear dimensions through `check_baggage_compatibility` to ensure everything fits before you head to the airport.

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### Overlooking swell gaps

#### ❌ AVOID

You pack three high-performance shortboards for a trip where the swell is predicted to be mostly small and mushy.

#### ✓ INSTEAD

Use `analyze_wave_coverage` to see if your current selection leaves you without a board for specific wave heights.

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## Guessing board volume

### ❌ AVOID

You buy a new board based on a gut feeling about liters rather than your actual skill level and the local wave power.

### ✓ INSTEAD

Use `suggest_volume_adjustment` to get specific liter changes that match your needs.

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## The Right Fit

Connect this MCP if you travel for surf or manage a collection of boards and want to stop guessing about gear. If you just surf locally with one board and don't care about technical volume tuning, you don't need this.



# Board Quiver Planner Tools for Precision Gear Selection

These tools handle the math for volume adjustments, baggage constraints, and swell-based gear gaps.

| #  | TOOL                        | DESCRIPTION                                                                                                                                               |
|----|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01 | analyze_wave_coverage       | This tool checks if your current board selection covers the expected wave conditions. It identifies if you're missing a board for specific swell heights. |
| 02 | check_baggage_compatibility | This tool validates your gear against travel constraints. It confirms if your boards will actually fit in your specific travel bags.                      |
| 03 | plan_quiver                 | This tool generates a custom list of surfboard recommendations. It uses your skill level and wave data to pick the right boards.                          |
| 04 | suggest_volume_adjustment   | This tool provides specific volume changes for your boards. It helps you tune a board's buoyancy for different skill levels or wave power.                |

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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** Plan a quiver for a trip with waves between 3 and 6 feet for an intermediate surfer with a 2-board limit.



Your optimized quiver includes: 1. A Groveler (35-40L) for the 3ft waves, and 2. A Shortboard (30-34L) for the 6ft waves.

**U** Will these boards fit in my bag? Dimensions: [{length: 180, width: 22, thickness: 2.5, weight: 3}, {length: 160, width: 20, thickness: 2.5, weight: 2.5}] with a 10kg limit.



Yes, the quiver fits. Total weight is 5.5kg and the largest board is 180cm.

**U** I have a 32L board. How should I adjust the volume for a pro surfer in powerful waves?



For a pro surfer in powerful waves, a reduction to 28-30L is recommended to increase maneuverability.

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## Frequently Asked Questions

### 01 How does the MCP recommend boards?

It uses optimization logic that combines your skill level with the expected wave heights to suggest specific board types and volumes.

### 02 Can I check if my boards will fit in my travel bag?

Yes, you can provide your board dimensions and bag constraints to verify compatibility.

**03 What if I already have a quiver?**

You can use the tool to analyze your current boards to see if they cover the expected wave conditions or if you need to adjust volumes.

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

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

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**05 Does it suggest specific volumes?**

Yes, it can recommend specific volume adjustments to help you better match a board to your skill or the wave power.

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**06 How do I plan a quiver for a specific trip?**

You can use the `plan\_quiver` tool by providing the minimum and maximum expected wave heights, your skill level, and any baggage constraints.

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**07 Can I check if my boards will fit in my airline baggage?**

Yes, use the `check\_baggage\_compatibility` tool with your board dimensions and the airline's weight and size limits.

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**08 How does skill level affect my recommendations?**

The engine adjusts recommended volume based on your proficiency. Higher skill levels typically result in lower volume recommendations for better maneuverability.

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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                                                                                     |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|  <b>Claude AI</b>  | Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint                         |
|  <b>Cursor</b>     | Settings → Features → MCP Servers → "+" Add New MCP Server → Type: SSE → Paste endpoint                |
|  <b>VS Code</b>  | Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"board-quiver-planner": {<br/>  "url": "..." }</code> |
|  <b>Windsurf</b> | MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL                                       |
|  <b>ChatGPT</b>  | Settings → Tools & plugins → Add MCP server → Paste endpoint                                           |
|  <b>Gemini</b>   | 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

# Board Quiver 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](https://cloud.vinkius.com) →**

[vinkius.com](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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DOCUMENT INFORMATION

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