

MCP SERVER

NO CODE

CLOUD HOSTED

Hedge Bet Calculator MCP for AI Agents

Guaranteeing Profit in Sports Wagering Through Arbitrage Calculation

Hedge Bet Calculator MCP calculates the exact wagers needed to lock in guaranteed profits across opposing sports outcomes. This tool helps bettors eliminate risk and identify arbitrage opportunities immediately. It determines precise hedge amounts required to neutralize initial losses or maximize returns on both sides of a wager.

A+ Quality Score 100/100

arbitrage

hedging

profit-calculation

sports-betting

risk-management



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.

Hedge Bet Calculator MCP

3 tools available

Cloud-hosted on Vinkius

When you're betting, relying on luck is a gamble. The Hedge Bet Calculator lets you stop guessing how much to bet next. If you have placed an original wager and the odds shift, this MCP tells you exactly what amount to put down on the opposing outcome. You can determine the precise hedge required just to neutralize your risk completely or secure a definite profit, no matter which way the game goes. It's pure math for guaranteed returns.

This connector works by running complex calculations across multiple odds and stakes. Your agent uses this MCP to first check if any specific set of current odds even represents a profitable opportunity at all. If it does, you can then figure out your final realized profit after covering both wagers. This whole process is managed through Vinkius, making sophisticated financial analysis accessible directly within your preferred AI client.

Core Capabilities

01 — Determine required hedge amounts

Calculates the specific wager amount needed on an opposing outcome to neutralize existing risk.

02 — Calculate guaranteed profit

Determines the final, realized net profit after accounting for both the initial bet and the hedging wager.

03 — Evaluate betting odds profitability

Checks if a given combination of odds represents an overall profitable opportunity or if it's mathematically unsound.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/hedge-bet-calculator — connect your AI agent in three steps.

- 01 Provide your AI client with the details: the original wager amount, the initial odds, and the current opposing odds.
- 02 The MCP runs these figures through its internal tools to model the risk elimination. It first checks if the combination of odds is viable for profit.
- 03 You get back a precise calculation showing the required hedge bet, the resulting payout from your original wager, and the guaranteed net profit.

The bottom line is that you stop relying on gut feeling and start betting with calculated certainty.

Built For

This MCP is for experienced sports bettors who treat wagering like an investment. It helps risk managers, arbitrage traders, and serious handicappers—anyone tired of losing money because the odds shifted unexpectedly.

Arbitrage Trader

Uses this MCP to quickly scan multiple bookmakers' odds and confirm if a guaranteed profit exists before placing any bets.

Sports Handicapper

Employs the hedge calculator when evaluating a complex slate of games, ensuring that an unfavorable outcome won't wipe out potential gains from other matches.

Risk Management Analyst

Uses it to model various betting scenarios for clients, demonstrating the exact amount needed to mitigate exposure across different market conditions.

What Changes When You Connect

- 01 Eliminate Guesswork: Instead of just guessing how much to hedge, the `get_hedge_requirements` tool gives you the exact dollar amount needed for maximum safety.

-
- 02** Secure Returns: You can confirm your guaranteed profit immediately using `calculate_net_profit`, knowing exactly what you walk away with regardless of the final score.
-
- 03** Identify Opportunities Fast: The `verify_arbitrage_state` function quickly tells you if a set of odds is even worth looking at, saving hours of manual cross-referencing.
-
- 04** Model Risk Accurately: You can run complex scenarios against your agent to see how different initial bets and hedge amounts affect the final payout.
-
- 05** Focus on Math, Not Emotion: This MCP removes emotional decision-making from sports betting. It forces you to look at pure probability and math.
-

Real-World Applications

Odds Shifted Mid-Game

You bet heavily on Team A, but the odds for Team B suddenly drop. Instead of panicking, your agent uses the hedge calculator to determine precisely how much you need to wager on Team B now to lock in a guaranteed profit based on your original stake.

Maximizing Total Gain

You want to place a calculated bet across both outcomes. You use the tool to find the ideal hedge balance, then `calculate_net_profit` confirms your total return of \$X, confirming it's worth the risk.

Checking Market Viability

Before committing capital, you feed three different odds combinations into the tool. Your agent uses `verify_arbitrage_state` and instantly flags two options as losing bets, leaving only one mathematically sound opportunity for guaranteed profit.

Patterns to Avoid

Guessing Hedge Amounts

✗ AVOID

Bettors often try to hedge by betting an arbitrary amount, thinking 'it should be enough.' This usually results in a net loss because the bet wasn't mathematically balanced against the original stake.

✓ INSTEAD

You must use `get_hedge_requirements` first. It calculates the precise wager needed on the opposing side to ensure you truly eliminate risk and secure your desired profit.

Ignoring Odds Shifts

✗ AVOID

Waiting until the last minute to adjust a hedge bet because 'it might be okay.' By that point, the optimal odds window has closed, and the opportunity is gone.

✓ INSTEAD

Use your agent with this MCP immediately when you see favorable odds. Check if the combination of current odds passes `verify_arbitrage_state` before placing any funds.

Treating Bets as Separate Events

✗ AVOID

Calculating the profit from the original bet and then calculating the profit from the hedge bet separately. This double-counts your money and misses the guaranteed net return.

✓ INSTEAD

Always run a full simulation using `calculate_net_profit`. This single function gives you the true, final amount of cash you walk away with.

The Right Fit

Use this MCP if your goal is absolute certainty in sports betting. If you need to know the minimum required wager on a secondary outcome to guarantee a profit—use `get_hedge_requirements`. If you are looking at multiple odds across different markets and just need to know which ones are mathematically sound, run through `verify_arbitrage_state` first. Never use this MCP if you're betting purely based on team morale or historical performance; it only handles mathematical risk management. Similarly, don't use it if you only want a single-sided bet; its entire purpose is to balance two sides for guaranteed returns.

Hedge Bet Calculator MCP: Finding Arbitrage Profit in Sports Wagering

Right now, placing complex bets feels like juggling. You place an initial wager, and then you wait for the odds to change. When they finally shift, you have to stop what you're doing, open a spreadsheet, manually input the original stake, the new odds, and calculate exactly how much you need to bet next just to break even or turn a small profit. It's tedious work that invites human error.

With this MCP, your agent handles all that math for you. You simply ask it about an initial bet and the opposing market rates. The tool returns one clean number: the precise hedge amount required. You don't just guess; you know exactly what to do next.

Hedge Bet Calculator MCP: Calculating Net Profit from Sports Wagering

Before this, figuring out your final return was a two-step guessing game. You'd calculate the payout from your initial bet, and then you'd separately calculate the profit from your hedge. Combining them in your head—or on paper—often led to double-counting or missing key variables.

Now, all those steps collapse into one number. Your agent uses `calculate_net_profit` to give you a single figure representing your guaranteed return. It's simple: the final cash amount you get back.

Hedge Bet Calculator: 3 Tools for Arbitrage Betting Profits

These tools allow your AI agent to check odds viability, calculate the necessary hedge bets, and determine your guaranteed net profit instantly.

#	TOOL	DESCRIPTION
01	<code>verify_arbitrage_state</code>	Checks if a specific set of odds results in an overall profitable betting opportunity or confirms it's a loss.
02	<code>calculate_net_profit</code>	Calculates the total realized profit after factoring in both your initial bet and the necessary hedge wager.
03	<code>get_hedge_requirements</code>	Determines the exact dollar amount you must wager on the opposite outcome to completely neutralize risk and calculate potential payouts.

See It in Action

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

U I bet \$150 on the Lakers at 2.10 odds. The Celtics are now at 1.65. How much do I need to hedge with?



Hedge Requirements Report

METRIC	VALUE
Required Hedge Bet (Celtics)	\$270.83
Potential Payout (Lakers bet)	\$315.00
Guaranteed Net Profit	\$44.17

Betting this amount locks in a solid profit regardless of who wins.

U Is it profitable to bet \$200 on the Knicks (3.50 odds) if I hedge with \$60 on the Heat (1.90 odds)?



Arbitrage State Check

- **Odds:** Knicks (3.50), Heat (1.90)
- **Total Cost to Cover:** \$260.00
- **Potential Payout:** \$350.00
- **Result:** Profitable Opportunity!

✓ **Net Profit Confirmed: \$90.00**

This setup works and guarantees you a \$90 return.

- U** If I initially bet \$75 on the Hawks at 2.80, but the opposing odds are now 1.40, what's my final guaranteed profit?



Risk Neutralization Calculation

- Original Stake: \$75 @ 2.80
- Required Hedge Bet (Hawks): \$39.29 @ 1.40
- Total Wagered: \$114.29
- Max Potential Payout: \$210.00
- **Guaranteed Net Profit: \$95.71**

You're in a great spot here.

Frequently Asked Questions

01 How does the Hedge Bet Calculator help me avoid losing money on sports bets?

It provides mathematical certainty by calculating the exact hedge wager needed to eliminate risk. You don't just guess; you use this MCP to find the precise amount that guarantees your profit, no matter which outcome happens.

02 Can I use the Hedge Bet Calculator for different sports besides football?

Yes, as long as the odds and outcomes are quantifiable in a two-sided betting market. The tool focuses on pure arbitrage math, making it applicable across various competitive domains.

03 What is 'arbitrage' in the context of this MCP?

Arbitrage means finding a guaranteed profit by betting on multiple outcomes when the odds are mispriced. The tool checks if those varying odds create an unavoidable financial gain for you.

04 If I run a scenario through the calculator, does it mean I have to bet that amount?

No. It's just a calculation showing what *would* be needed to guarantee profit given those specific odds. You use it as an analytical tool before you commit any funds.

05 How do I calculate my final guaranteed return using the Hedge Bet Calculator MCP?







You must use the `calculate_net_profit` function. This single action takes your initial bet and the required hedge into account to give you one clear number: your total, secured profit.

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>"hedge-bet-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

Hedge Bet 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 · support@vinkius.com

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