MCP SERVER | NO CODE | CLOUD HOSTED

Round Robin Generator MCP for AI Agents

Calculating Every Possible Sports Parlay Combination

The Round Robin Generator MCP calculates every unique combination needed for complex sports parlays. Input a pool of bets, and this tool automatically maps out all possible subsets, figuring out how much you should stake on each one and what the potential return could be.

A+ Quality Score 100/100

round-robin | parlay | combinations | wager | payouts

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vinkius.com/mcp/round-robin-generator

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.

Round Robin Generator MCP

3 tools available
Cloud-hosted on Vinkius

Building large parlay slips means doing math that's brutal—you have to track every single combination without missing one. This MCP takes that headache away. You simply feed it a group of bets, and your AI agent handles the entire process.

It first identifies every unique pairing or grouping from your initial set of choices. Next, it calculates exactly how much money you need to stake on each individual parlay to achieve a balanced round robin structure. Finally, the tool estimates potential payouts based on current odds, giving you a clear financial picture before you commit any cash.

This math is complicated and specific; relying on general-purpose tools isn't going to cut it. That’s where Vinkius comes in. By connecting this specialized MCP, your agent gets the precise calculation engine it needs to analyze complex wagering strategies.

Core Capabilities

01 — Identify all possible betting combinations

The tool finds every unique grouping of bets from a larger pool for you.

02 — Determine optimal stake per parlay

It calculates the specific, uniform amount of money needed to bet on each resulting combination.

03 — Estimate potential financial returns

The MCP projects the final payout for every calculated parlay based on the odds provided.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/round-robin-generator** — connect your AI agent in three steps.

01 Start by providing your initial pool of bets and defining the size of the combinations you want to analyze.

02 The MCP runs through all possible unique groupings, generating every necessary combination from that pool.

03 It then calculates the required stake for each parlay and projects the total potential payout based on the odds.

The bottom line is your AI client gives you a complete, mathematically sound map of every possible betting outcome without needing manual calculations or spreadsheets.

Built For

This MCP is for serious bettors and data analysts who deal with high-volume wagering strategies. If you spend time calculating complex parlay structures, this tool saves hours of tedious math work.

Sports Bettor / Wagering Analyst

They use the MCP to map out every possible round robin combination from a set of bets before placing their final wager.

Financial Modeler (Risk)

They use it to model exposure and potential returns across large, multi-leg betting structures.

What Changes When You Connect

01 Don't guess the math. Use `generate_all_combinations` to instantly map out every unique pairing from your bet pool, ensuring you never miss a possible combination.

02 Stop wasting time on spreadsheets. The MCP calculates the exact stake needed for each parlay using `calculate_per_parlay_wager`, guaranteeing even risk distribution across all legs.

03 Get immediate financial insight. You can project potential returns for your entire set of bets with `project_payouts`, allowing you to judge viability before wagering.

04 Analyze complex strategies faster than ever. By automating the combinatorial math, you move from days of manual work to minutes of analysis.

05 Ensure perfect balance across all legs. The tool handles the difficult mathematics required for a true round robin structure, so your risk is spread correctly.

Real-World Applications

Betting on multiple teams in one sport

You have four basketball games and want to play all 2-leg teasers. Instead of listing them out manually, your agent uses `generate_all_combinations` to list the six possible pairings instantly. Then it calculates the stake using `calculate_per_parlay_wager`.

Modeling risk for large parlay slips

You need to know if a $1,000 total wager can be evenly distributed across 20 unique combinations. The agent uses `generate_all_combinations` first, then feeds the count into `calculate_per_parlay_wager` to confirm the exact stake amount.

Forecasting maximum potential returns

After generating all possible combinations and calculating the stakes for a group of bets, you use `project_payouts` to get a clear, comprehensive estimate of your total potential return pool.

Comparing different combination sizes

You want to see if playing 2-leg teasers or 3-leg combinations is more profitable. The agent runs the full cycle—combinations, staking, and payouts—for both set sizes in minutes.

Patterns to Avoid

Trying to count manually

✗ AVOID

Attempting to list all combinations for 5 bets manually is tedious and prone to counting errors. You'll quickly get overwhelmed by the sheer number of possibilities.

✓ INSTEAD

Always use `generate_all_combinations`. Give your agent the pool of bets, specify the group size, and it handles the entire combinatorial mapping instantly.

Using generic staking calculators

✗ AVOID

Some basic tools only let you input a total dollar amount. They don't know how many combinations you actually have, so they can’t calculate the right stake per parlay.

✓ INSTEAD

First, run `generate_all_combinations` to get the exact number of groups. Then feed that count and your budget into `calculate_per_parlay_wager` for accuracy.

Ignoring odds variance

✗ AVOID

Calculating a stake without considering the specific odds makes the projected payout useless because it assumes an unknown multiplier.

✓ INSTEAD

After determining your combinations and stakes, always use `project_payouts` to model the final return based on real-world betting odds.

The Right Fit

Use this MCP if you need to systematically map out every single possible combination of bets for a round robin parlay. Specifically, if your goal is to calculate balanced stakes and project returns across many unique pairings, this tool works. Don't use it if you only want to check one or two pre-selected combinations; in that case, a simple odds calculator will suffice. Also, don't rely on it for live, changing market data—it models potential payouts based on provided odds. This MCP is purely about the mathematical structure of the combinations and their associated staking requirements.

Round Robin Generator: Calculating Parlay Combinations in Sports Betting

Right now, building out a large round robin parlay requires deep spreadsheet work. You have to track every unique subset of legs from your initial group of bets, making sure you don't double-count or miss a single pairing. This is slow and incredibly error-prone.

With this MCP, the process flips entirely. Your agent takes the entire pool of available bets and instantly generates all possible combinations using `generate_all_combinations`. You get a clean, comprehensive list right away.

Round Robin Generator: Determining Stake and Payouts for Betting Analysis

Manually figuring out what stake to put on each parlay so that your total risk is balanced across every combination is a nightmare. You also have to manually project the payout based on odds, which takes time and focus.

This MCP solves both problems. After mapping all combinations, it calculates the optimal uniform wager per parlay using `calculate_per_parlay_wager`, and then finishes by projecting the total return with `project_payouts`. It's a full analysis pipeline in seconds.

Round Robin Generator: 3 Tools for Betting Combination Math

Use these tools to generate every unique betting combination, determine the optimal stake per group, and project total payouts accurately.

#	TOOL	DESCRIPTION
01	`generate_all_combinations`	Identifies every unique subset of legs for a specified group size from a given pool of bets.
02	`calculate_per_parlay_wager`	Determines the specific, equal amount of money that should be staked on each individual combination.
03	`project_payouts`	Estimates the final monetary return for each parlay in the set based on their provided odds.

See It in Action

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

U I have 5 bets for tonight: Lakers, Celtics, Bulls, Suns, and Heat. I want to see all the possible 3-leg teasers.

Possible 3-Leg Combinations:

- Lakers + Celtics + Bulls
- Lakers + Celtics + Suns
- ... (10 total combinations listed)

There are exactly **10** unique three-leg parlay options. This is the first step to figuring out your full round robin slate.

U If I plan to play those 10 combinations above with a total budget of $200, what should my stake per parlay be?

Wager Calculation:

METRIC	VALUE
Total Combinations	10
Total Budget	$200.00
Stake Per Parlay	**$20.00**

Your stake needs to be exactly $20. This keeps your risk level uniform across the entire set.

U Calculate the payout for the Celtics/Suns combination if I bet $20 and the odds are 2.5 and 1.8 respectively.

Payout Projection:

BET LEGS	ODDS (A)	ODDS (B)
Celtics / Suns	2.5	1.8

Calculation: $20 *2.5* 1.8 = **$90.00**.

The potential return for that specific parlay is $90. You can use this method to estimate the total value of your entire slate.

Frequently Asked Questions

01 **How does the Round Robin Generator MCP work to find all possible combinations?**

It identifies every single unique grouping of bets from your pool, regardless of how complex the parlay is. You just give it the list and the required size, and it gives you a complete map of options.

02 **What if I change my total betting budget? Does Round Robin Generator recalculate the stakes?**

Yes. If you adjust your overall budget, the MCP instantly runs through all the combinations again to determine a new, balanced stake amount for every single parlay.

03 **Does this MCP account for variable odds when projecting payouts?**

Absolutely. When you use the payout projection tool, it takes the specific odds of each leg in your combination and calculates the precise monetary return for that particular bet.

04 **Is Round Robin Generator only for sports like basketball?**

No. It handles any domain where you have a pool of individual choices (legs) and need to calculate all unique groupings from that set, regardless of the source material.

05 **Can I use this MCP if my bets are not equally weighted?**

The tool calculates the necessary stake for each parlay to maintain a uniform risk structure. It ensures your bet is balanced across all legs in the round robin set.

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 `"round-robin-generator": { "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

Round Robin Generator 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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