

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

Investment Return Calculator MCP

Get precise financial performance metrics through your AI client.

Investment Return Calculator is a financial analysis MCP that lets your AI client perform complex math on investment data. It handles everything from basic percentage changes to annualized geometric mean returns. You can use it to compare different investment scenarios or get a qualitative summary of your gains and losses without manual calculation.

A+ Quality Score 100/100

investment

returns

finance

percentage

analysis



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.

Investment Return Calculator MCP

4 tools available

Cloud-hosted on Vinkius

You can stop manually running formulas in spreadsheets to check how your money is performing. This MCP gives your AI client the specific math tools it needs to analyze investment returns accurately. Whether you are looking at a single asset or comparing two different portfolios, your agent can now handle the heavy lifting.

You can use it to find the basic percentage change of an asset or calculate annualized returns to see how an investment performed on a yearly basis over time. If you have two different scenarios, your agent can run a comparison to see which one actually yielded a better result in percentage terms. It even provides a descriptive summary of the outcome, so you don't have to interpret the raw numbers yourself. It is a direct way to turn raw financial data into actionable performance insights through your preferred AI interface.

Core Capabilities

01 — Simple Return Calculation

Your agent uses this to find the basic percentage change for any asset.

02 — Annualized Yield Analysis

Your agent uses this to normalize returns over specific time periods.

03 — Scenario Comparison

Your agent uses this to weigh two different investment paths against each other.

04 — Outcome Classification

Your agent uses this to provide a qualitative description of investment results.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/investment-return-calculator — connect your AI agent in three steps.

- 01 Connect the MCP to your client like Claude or Cursor via Vinkius.
- 02 Provide your investment data to your AI agent.
- 03 Ask the agent to perform a specific calculation or comparison.
- 04 The agent calls the relevant tool to process the math.
- 05 You receive the calculated return or summary directly in the chat.

Connecting this MCP to your AI client gives your agent immediate access to financial math tools.

Built For

This MCP is built for anyone managing portfolios or analyzing financial data through an AI interface.

Financial Analysts

They hand off raw asset data to the AI to get quick performance metrics.

Personal Investors

They use the agent to track their own portfolio growth and annualized yields.

Accountants

They use the tools to verify percentage changes and investment outcomes.

What Changes When You Connect

- 01 Removes the need for manual percentage math in your AI chat.
- 02 Normalizes returns across different timeframes using annualized calculations.

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- | | |
|----|---|
| 03 | Provides direct comparisons between competing investment scenarios. |
| 04 | Translates raw numbers into descriptive outcome summaries. |
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Real-World Applications

Portfolio Benchmarking

Compare how your current holdings performed against a different set of assets.

Long-term Growth Tracking

Calculate how much an investment grew on a yearly basis over several years.

Quick Asset Checks

Get the immediate percentage return on a single asset after a price change.

Investment Decision Support

Use the comparison tool to decide between two different financial paths.

Patterns to Avoid

Manual Math in Chat

❌ AVOID

You type out a long string of numbers and ask your AI to calculate the percentage change manually.

✓ INSTEAD

Let the agent do the math using `calculate_simple_return` to ensure the calculation is exact and error-free.

Comparing Unnormalized Returns

❌ AVOID

You try to compare a 50% return over three years to a 10% return over six months.

✓ INSTEAD

Use `calculate_annualized_return` first to normalize both figures to a yearly basis before you try to compare them.

Ignoring Qualitative Context

❌ AVOID

You look at a raw percentage and try to decide if the investment was a success or a failure yourself.

✓ INSTEAD

Run `get_return_summary` to get a descriptive classification of what those numbers actually mean for your portfolio.

The Right Fit

Connect this MCP if you frequently move between spreadsheets and AI chats to analyze asset performance. If you only look at static, single-point price changes and never need to compare timeframes or scenarios, you don't need this.

Investment Return Calculator 4 Tools

These tools handle the math for calculating percentage changes, annualized yields, and comparing different investment scenarios.

#	TOOL	DESCRIPTION
01	calculate_simple_return	This tool calculates the basic percentage return for a single investment asset.
02	calculate_annualized_return	This tool converts a total return into an equivalent yearly return by accounting for the time elapsed.
03	compare_investment_performance	This tool evaluates two different investment scenarios to see which one performed better in percentage terms.
04	get_return_summary	This tool provides a descriptive classification of the investment outcome.

See It in Action

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

U What was the percentage return on an investment that grew from \$1,000 to \$1,250?



The return on your investment is 25%.

U Calculate the annualized return for \$5,000 that became \$7,500 over 5 years.



The annualized return is 8.45% per year.

U Which performed better: \$100 to \$150 or \$200 to \$280?



The first investment performed better with a 50% return compared to 40% for the second.

Frequently Asked Questions

01 How do I use this MCP with Claude?

You connect to the Vinkius hosted MCP once, and then your Claude client can call the financial tools directly during your conversations.

02 Can I compare two different investments?

Yes, you can use the `compare_investment_performance` tool to see which scenario had a better percentage return.

03 Does this handle annualized returns?

Yes, the `calculate_annualized_return` tool converts total returns into yearly geometric mean returns based on the time elapsed.

04 What kind of math does the MCP do?

It handles simple percentage returns, annualized returns, performance comparisons, and qualitative outcome summaries.

05 Do I need to host the MCP myself?

No, Vinkius hosts and manages the MCP for you, so it is ready to use as soon as you connect your client.

06 How do I calculate the yearly return for a long-term investment?

You can use the `calculate_annualized_return` tool. Provide the initial value, the final value, and the number of years that have elapsed to get the geometric mean return per year.

07 Can I compare two different stocks using this tool?

Yes. Use `compare_investment_performance` by providing the initial and final values for both investments to see which one had the higher percentage return.

08 What happens if my investment lost money?

The tools will correctly identify a negative return. For example, `get_return_summary` will return a status of 'Loss'.

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>"investment-return-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

Investment Return 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 →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Investment Return Calculator MCP
Server ID	01a0c736-8b35-7267-9606-ef274d195e20
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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