MCP SERVER | NO CODE | CLOUD HOSTED

DefiLlama MCP for AI Agents

Analyze DeFi Total Value Locked and Yield Performance Metrics

DefiLlama provides your AI agent direct access to real-time and historical decentralized finance data. Query Total Value Locked (TVL), token prices, APY rates, and cross-chain bridge volumes across every major DeFi protocol and blockchain.

A+ Quality Score 98.33/100

defi | tvl | crypto-prices | yield-farming | on-chain-data

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vinkius.com/mcp/defillama-defi-analytics

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.

DefiLlama (DeFi Analytics) MCP

19 tools available
Cloud-hosted on Vinkius

Need deep market insights but hate spending hours manually scraping data from ten different dashboards? This MCP connects your AI agent to DefiLlama, the leading source for decentralized finance metrics. You can query complex questions—like tracking how a specific yield pool's performance changed during a bear cycle—using natural conversation.

Your agent handles all the complexity: it pulls historical TVL data across global ecosystems, fetches current token prices, and analyzes volume shifts on major bridges. This means your AI client doesn't just answer; it executes deep research protocols for you. When you connect this MCP through Vinkius, you gain a central hub that lets any compatible client run advanced financial modeling without writing complex API calls. You simply ask what data you need, and the system delivers the full picture of the DeFi market.

Core Capabilities

01 — Track Total Value Locked (TVL)

Get current or historical TVL figures for entire blockchains, individual protocols, or specific asset pools.

02 — Analyze Token Pricing and Changes

Retrieve the current price of thousands of tokens and calculate their percentage change over any specified time period.

03 — Identify Yield Farming Opportunities

Monitor APY and TVL for liquidity pools across different chains, helping you pinpoint optimal yield strategies.

04 — Assess Cross-Chain Activity

Analyze bridge volume activity and track stablecoin market capitalization across multiple ecosystems.

05 — Model Market Trends Over Time

Access time-series data to understand long-term protocol growth, DEX volumes, and historical DeFi cycles.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/defillama-defi-analytics** — connect your AI agent in three steps.

01 First, subscribe to this MCP. If you're using a pro account, enter your DefiLlama API Key; otherwise, leave it blank for public data access.

02 Next, tell your AI client exactly what you need—for example, 'What was the global TVL on June 1st?'

03 The MCP executes the query, pulls the raw metrics from DefiLlama, and presents the structured data back to your agent.

The bottom line is that your AI client handles all the data plumbing; you just ask the question in plain English.

Built For

This MCP is built for people whose job involves interpreting complex, fast-moving financial datasets. It's ideal for crypto analysts tired of manual data scraping and portfolio managers who need instant cross-chain market comparisons.

Crypto Analyst

Performs deep on-chain research, comparing metrics like protocol TVL or historical yield performance across competing DeFi ecosystems.

DeFi Developer

Integrates real-time price and volume data into internal tools, using the MCP to pull structured financial metrics for development pipelines.

Portfolio Manager

Tracks market trends and yield opportunities instantly across multiple chains without needing dedicated dashboard access for every protocol.

What Changes When You Connect

01 Track market shifts instantly: Use get_historical_tvl_global to see how the entire DeFi ecosystem grew or shrank during a specific market cycle.

02 Pinpoint best yields: Check liquidity pools using get_all_pools to compare current APY and TVL across dozens of competing protocols in minutes.

03 Deep dive into protocol health: Use get_protocol alongside get_historical_tvl_chain to assess the long-term stability of specific lending or DEX platforms.

04 Map cross-chain flow: Analyze bridge activity with get_bridge_volume_chain and global volume data from get_dex_volumes_global to understand capital movement.

05 Model price changes accurately: Use get_historical_prices and get_percentage_change to calculate token value shifts at specific, critical historical moments.

Real-World Applications

Investigating Protocol Resilience During Downturns

A PM needs to know if a protocol can survive a bear market. They ask the agent: 'Show me how a specific protocol's TVL changed over the last three years.' The agent uses get_protocol and get_historical_tvl_chain to provide a clear trend line, identifying when capital started flowing out.

Comparing Cross-Chain Capital Efficiency

A developer wants to know which bridge is moving the most value. They prompt: 'Compare the current bridge volume on Ethereum versus Polygon.' The agent executes get_all_bridges and get_bridge_volume_chain, giving immediate comparative data.

Optimizing Yield Farming Strategies

An analyst needs to find a better yield. They ask: 'What are the top five pools with APY over 10% right now?' The agent calls get_all_pools, filtering out low-performing assets and presenting actionable opportunities.

Forecasting Token Value Changes

A researcher needs to understand how a token's price has reacted historically. They ask: 'What was the price of ETH exactly 6 months ago?' The agent uses get_historical_prices, providing the precise data point needed for their model.

Patterns to Avoid

Comparing apples to oranges

✗ AVOID

A user tries to compare a single token's current price using get_current_prices against global market volume using get_dex_volumes_global. The metrics aren't comparable.

✓ INSTEAD

To make an accurate comparison, you must first establish the scope. If comparing TVL, use get_historical_tvl_chain for both chains. For volume, always compare two specific DEX volumes using get_dex_volume_chain.

Ignoring time context

✗ AVOID

A user asks about 'low yield pools' but doesn't specify a timeframe, resulting in outdated or misleading data from the agent.

✓ INSTEAD

Always anchor your query to time. If you need performance metrics, use get_pool_historical_data instead of just checking current APY. This gives context.

Confusing total value with liquidity

✗ AVOID

Assuming high TVL automatically means a protocol has deep liquidity for trading.

✓ INSTEAD

Check both metrics. Use get_all_pools to see the current APY and TVL, but also check the specific DEX volume on that chain using get_dex_volume_chain for an accurate picture of activity.

The Right Fit

Use this MCP if your workflow requires tracking complex, multi-dimensional financial data across disparate chains. If you need to compare current TVL across multiple protocols or model price changes over specific historical periods, this is the tool. You should use it when querying both macro trends (like get_historical_tvl_global) and micro details (like get_all_pools). Don't use it if your only goal is tracking a single asset; in that case, basic charting tools might suffice. However, if you need to understand how that single asset relates to the broader market or its competitors, this MCP provides the necessary context through functions like get_protocol and get_current_prices.

DefiLlama MCP for AI Agents: Analyzing DeFi TVL and Yield Performance

Today, tracking the health of decentralized finance is a manual nightmare. You're juggling dozens of dashboards: checking one site for total value locked (TVL), hopping to another to see current token prices, and then logging into a third just to check yield rates on liquidity pools. It takes hours of clicking through tabs and copy-pasting numbers just to build a rough picture.

With this MCP, your agent pulls the data automatically. Instead of manually compiling reports on total value locked (TVL) or monitoring APY changes across chains, you simply ask for it. Your AI client delivers an immediate, structured report that pinpoints where capital is flowing and which protocols are leading the market.

DefiLlama MCP for AI Agents: Understanding DeFi Bridge Volume and Market Cap

Before this tool, understanding cross-chain activity meant manually tracking bridge metrics. You had to check volume data for each chain individually—one source for Ethereum bridging, another for Polygon, and yet another for stablecoin market caps.

Now, you get a single view of capital movement. You can compare the total DEX volume across chains using get_dex_volumes_global or assess which bridges are handling the most assets with one query. It's instant, cross-chain clarity.

DefiLlama: 20 Tools for Advanced DeFi Data Queries

These tools let your AI agent retrieve current and historical metrics covering TVL, pricing, yield pools, bridge volumes, and more across the entire decentralized finance ecosystem.

#	TOOL	DESCRIPTION
01	`get_all_chains_tvl`	Retrieves the current Total Value Locked (TVL) for all major blockchains supported by DefiLlama.
02	`get_all_pools`	Gets the current Annual Percentage Yield (APY) and TVL figures for every monitored liquidity pool.
03	`get_all_stablecoins`	Provides a list of all stablecoin assets tracked by the system.
04	`get_bridge_volume_chain`	Calculates and retrieves the total bridge volume for a specified blockchain.
05	`get_current_prices`	Fetches the current market price of any token given its chain and contract address.
06	`get_current_tvl_chain`	Gathers the aggregate TVL for a specific blockchain network right now.
07	`get_historical_prices`	Retrieves the price of any token at an exact historical timestamp you specify.
08	`get_historical_tvl_global`	Accesses time-series data showing the overall TVL growth of the entire DeFi market.
09	`get_percentage_change`	Calculates how much a token's price has changed over any defined period.
10	`get_pool_historical_data`	Tracks the historical APY and TVL performance for a specific liquidity pool over time.
11	`get_price_chart`	Generates a visual chart showing the price movements of a token over a specified period.
12	`get_protocol`	Retrieves historical TVL data specifically for one designated DeFi protocol.
13	`get_protocols`	Lists all tracked protocols and their current total value locked (TVL) status.
14	`get_stablecoin_historical_data`	Gathers time-series data detailing the historical metrics of stablecoins.

#	TOOL	DESCRIPTION
15	`get_stablecoin_market_cap_chain`	Determines the current market capitalization for stablecoins on a specific chain network.
16	`get_all_bridges`	Lists and provides data points regarding all monitored cross-chain bridges.
17	`get_dex_volume_chain`	Calculates the total trading volume for Decentralized Exchanges (DEX) on a specific chain network.
18	`get_dex_volumes_global`	Aggregates global data to show the total DEX trading volumes across all chains.
19	`get_historical_tvl_chain`	Pulls historical TVL data for a specific blockchain network over time.

See It in Action

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

U What were the biggest capital movements in DeFi last month?

DeFi Capital Flow Analysis (Last 30 Days)

METRIC	VALUE
Global TVL Change	+$12.5B
Leading Protocol	Aave (+8%)
Top Bridge Activity	Polygon to Arbitrum ($4.1B)

Insight: The increase in bridge volume suggests significant migration of funds to multi-chain architectures, favoring the bridging mechanisms between these two networks.

U Show me a comparison of ETH and SOL's performance over the last year.

Token Price Comparison (ETH vs. SOL)

Chart: 1 Year Performance
(Visual chart showing both lines)

- Key Finding:
- **Ethereum:** Showed steady, moderate growth with a notable dip in Q2.
- **Solana:** Exhibited higher volatility but maintained stronger momentum during the last quarter.

Please note that this comparison excludes stablecoin performance.

U What are the best yield farming opportunities on Ethereum right now?

Top 5 Yield Opportunities (Ethereum)

1. **Aave Pool:** APY: 7.2% | TVL: $6B |
2. **Curve LP:** APY: 6.8% | TVL: $4.5B |
3. **Uniswap V3:** APY: 5.9% | TVL: $3.1B |

Recommendation: The current metrics suggest that liquidity pools with deep, established history offer the most reliable yields right now.

Frequently Asked Questions

01 **How can I use DefiLlama to track historical DeFi TVL data?**

You can query specific timeframes for total value locked (TVL) across the entire market or for individual protocols. This helps you visualize how capital has flowed into or out of certain sectors during major market cycles.

02 **Does DefiLlama help me compare token prices across different chains?**

Yes, it lets you fetch the current price and historical data for tokens on multiple blockchains. You can see if a token maintains consistent value whether it's traded on Ethereum or another network.

03 **What kind of yield farming information does DefiLlama provide?**

The MCP monitors liquidity pools and provides both the current Annual Percentage Yield (APY) and the total value locked (TVL) for those pools. This lets you quickly compare which opportunities offer the best returns.

04 **Can I analyze how much money is moving between chains?**

You can track cross-chain activity by analyzing bridge volumes and global DEX trading volumes. This gives you a clear picture of where capital is migrating within the wider crypto ecosystem.

05 **Is DefiLlama useful for understanding market trends over time?**

Absolutely. By providing historical data, you can build price charts and see macro-level shifts in total value locked (TVL). This is critical for any deep market analysis or research.

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 `"defillama-defi-analytics": { "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

DefiLlama (DeFi Analytics) 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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