

MCP SERVER

NO CODE

CLOUD HOSTED

BLS Labor Force — National Unemployment MCP for AI Agents

Track U.S. Workforce Trends and Demographic Shifts by State and Age Group

The BLS Labor Force — National Unemployment & CPS MCP gives your AI agents immediate access to the U.S. Bureau of Labor Statistics data. It lets you query national unemployment rates, track labor force participation changes, and break down workforce metrics by demographics instantly.

F Quality Score 3.6/100

unemployment-rate

labor-force

demographics

economic-data

public-api



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.

BLS Labor Force — National Unemployment & CPS MCP

2 tools available
Cloud-hosted on Vinkius

Tracking economic trends used to be a manual nightmare: downloading spreadsheets from BLS websites, cross-referencing dates, and wrestling with complex series IDs just to get a basic picture of the job market. Now, your agent handles it.

This MCP connects your AI client directly to the official Current Population Survey (CPS) data stream. You stop waiting for weekly reports; instead, you ask questions like, 'How did unemployment change among 16-24 year olds last quarter?' and get an immediate, structured answer. Whether you're doing deep economic modeling or just checking quarterly HR metrics, this MCP delivers the raw data points your team needs to make calls.

Connecting via Vinkius means you don't have to build custom API handlers for every government dataset. You simply connect once from any compatible client and get access to this crucial labor market intelligence alongside thousands of other data sources.

Core Capabilities

01 — Get the National Unemployment Rate

Retrieves the core, headline unemployment figure calculated by the Current Population Survey (CPS).

02 — Query Historical BLS Time Series Data

Allows for complex lookbacks across multiple economic indicators using specific Bureau of Labor Statistics series IDs.

03 — Analyze Workforce Demographics

Provides detailed breakdowns of labor status by age, gender, or educational level.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/bls-labor-force-national-unemployment-cps — connect your AI agent in three steps.

- 01** First, you sign up for a free BLS API key and input the credentials into your Vinkius settings.
- 02** Next, you direct your AI client to use this MCP. When prompted with an economic question (e.g., 'What's the unemployment rate?'), the agent automatically knows which tools to invoke.
- 03** Finally, you receive a clean, formatted answer—not raw JSON—with current or historical data points related to the US workforce.

The bottom line is, your AI client interprets the complex government API calls and gives you actionable insight in plain English.

Built For

This MCP is for anyone who needs to make decisions based on official workforce statistics. Think economic analysts needing real-time data streams, HR teams tracking labor market shifts, or researchers building models of demographic change.

Economic Analyst

Determines trends in the overall job market by comparing historical unemployment rates and labor force participation across different quarters.

HR Manager

Assesses talent pool availability or internal staffing needs by analyzing how employment rates differ for specific age groups (e.g., entry-level vs. senior staff).

Government Researcher

Builds reports detailing the impact of economic factors on various demographics, requiring precise data points from the Current Population Survey.

What Changes When You Connect

- 01** Get the latest headline unemployment figure immediately using `get_unemployment_rate`, eliminating manual visits to government websites.
- 02** Compare demographic risks across cohorts (e.g., comparing teenage vs. adult joblessness) in a single query, something previously requiring multiple data sheets.
- 03** Run deep historical queries on various labor indicators by utilizing the generic `query_bls` tool, giving you flexibility beyond just unemployment rates.
- 04** Avoid guesswork when planning staffing needs; your agent grounds workforce forecasts using official BLS Current Population Survey numbers.
- 05** Focus on analysis instead of data collection. The MCP handles the complex API calls and structuring for you.

Real-World Applications

Assessing Post-Pandemic Economic Health

An economic analyst asks their agent to compare current labor force participation rates against pre-2020 benchmarks. The agent uses the MCP to pinpoint exactly how far behind the workforce is, providing a precise metric for their board report.

Building a Quarterly Economic Briefing

A researcher needs to compile data on three different economic indicators (e.g., inflation, employment, wage growth). They use `query_bls` to pull all required time series data into one structured query.

Targeting Specific Workforce Gaps

An HR manager needs to know if entry-level workers (age 18–24) are facing higher unemployment than established professionals. The agent runs targeted demographic breakdowns, showing the precise disparity in joblessness rates.

Modeling Workforce Resilience

A consultant wants to model how unemployment spikes affect different educational attainment groups. The agent uses the MCP's demographic tools to isolate and compare those specific cohorts for a robust analysis.

Patterns to Avoid

Using basic web scraping

X AVOID

Trying to pull data by manually copying numbers from BLS graphs or downloading PDFs, which often requires formatting cleanup and date alignment.

✓ INSTEAD

Use the `get_unemployment_rate` tool. It connects directly to the official API source, guaranteeing accuracy and structured output every time.

Relying on incomplete data sets

X AVOID

Only checking unemployment rates without looking at labor force participation numbers, which gives a misleading view of economic health.

✓ INSTEAD

Ask your agent to compare both the national unemployment rate and labor force participation metrics in one prompt for a full picture.

The Right Fit

Use this MCP when you need verifiable, official government data on employment trends. If your core question involves 'rate,' 'participation,' or 'demographics' related to the US workforce, this is what you need. Don't use it if you just want general market sentiment; this provides hard numbers only. Similarly, don't rely solely on `get_unemployment_rate` for a complete picture; always ask your agent to cross-reference that figure with labor force participation metrics using the broader capabilities of the MCP.

BLS Labor Force — National Unemployment & CPS MCP: Analyzing Workforce Trends

Before this connector, gathering a single snapshot of the job market meant logging into multiple government sites. You'd have to manually pull unemployment rates and then separately find data on labor force participation to even begin comparing them. This process was slow, prone to

Now, you ask your agent a single question about workforce health. It handles the complex logic of accessing both rate and participation metrics through the MCP. You get an immediate, structured comparison that tells you exactly where the market stands.

versioning errors, and required juggling dozens of tabs just for basic reporting.

BLS Labor Force — National Unemployment & CPS MCP: Tracking Demographic Shifts

The manual way to check demographic breakdowns meant running separate reports for every group—one for age, one for gender, and another for education. This made comparing disparities across cohorts incredibly tedious, turning a simple comparison into hours of spreadsheet work.

With this MCP, you can prompt your agent to compare unemployment between specific groups (like teenagers versus adults) in seconds. It isolates those precise data points for you, giving you immediate visibility into workforce inequalities.

BLS Labor Force: 2 Tools for Workforce Metrics Analysis

Use these two tools to query the national unemployment rate or perform advanced time series lookbacks on economic data from the BLS Current Population Survey.

#	TOOL	DESCRIPTION
01	<code>get_unemployment_rate</code>	Gets the national unemployment rate figure directly from the Current Population Survey (CPS).
02	<code>query_bls</code>	Performs a generic time series query across multiple BLS economic data points if you know the specific numerical codes.

See It in Action

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

U What's the current joblessness rate and how does that stack up against last year?



National Unemployment Report (BLS Data)

- **Current Rate:** 3.8%
- **Last Year:** 4.5%
- **Trend:** Down 0.7 percentage points.

This indicates a tightening labor market compared to the previous year, signaling strong job gains across sectors.

U Compare unemployment for people aged 16-24 versus those over 55.



Demographic Comparison (CPS Data)

COHORT	UNEMPLOYMENT RATE
Age 16-24	11.9%
Age 55+	3.2%

The data shows a significant disparity, with young adults facing substantially higher joblessness rates than older workers.

U Show me the trend of labor force participation since early 2020.



Labor Force Participation Rate Trend

The overall rate has stabilized at **62.5%**. This figure remains roughly half a percentage point below the pre-pandemic average, suggesting that while the economy recovered, some segment of the working-age population hasn't fully returned to its prior level.

Frequently Asked Questions

01 How do I use the BLS Labor Force — National Unemployment & CPS MCP to check current job rates?

You ask your agent for the national unemployment rate. The MCP retrieves the latest official figure from the Current Population Survey, giving you a reliable snapshot of how tight or loose the labor market is right now.

02 Can this MCP compare unemployment between different age groups?

Yes. You can prompt your agent to run demographic breakdowns comparing specific cohorts, such as teenagers versus adults. This helps you pinpoint where the greatest workforce gaps exist.

03 Is BLS Labor Force — National Unemployment & CPS MCP better than just checking a website?

Absolutely. Instead of manually downloading and cross-referencing multiple PDF reports, the MCP synthesizes the data for you. You get structured comparisons across rates, participation, and demographics instantly.

04 Does this tool give me historical BLS economic data?

Yes. The MCP supports querying historical time series data using specific codes. This is useful for running long-term trend analyses that cover years or even decades of market shifts.

05 What if I need to analyze labor trends by state, not just nationally?







While the core focus is national metrics, you can use the MCP's demographic tools combined with your specific query parameters to drill down into regional or localized workforce patterns.

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>"bls-labor-force-national-unemployment-cps": { "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

BLS Labor Force — National Unemployment & CPS 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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