MCP SERVER | NO CODE | CLOUD HOSTED

Mosaic Resource MCP

Stop clicking. Start asking questions about your workforce data.

Mosaic Resource Planning and Workforce Management MCP helps you manage complex enterprise resource data through conversation. Instead of clicking through dozens of spreadsheets, use your AI client to ask questions like 'Who is over-allocated on Project X?' or 'What's the profit margin for this quarter?'. It connects directly to detailed workforce plans, budget estimates, team capacity logs, and organizational role structures.

A+ Quality Score 100/100

resource-planning | workforce-management | capacity-planning | project-profitability | team-utilization | budget-tracking

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vinkius.com/mcp/mosaic-resource-planning-workforce-management

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.

Mosaic (Resource Planning & Workforce Management) MCP

12 tools available
Cloud-hosted on Vinkius

You can take full control of your company's most complex data—workforce planning, project budgets, and resource allocation—using only natural language. This MCP reads every detail about who works on what, how much it costs, and when they are available. Need to know if a team member is properly assigned? Check their profile using the agent. Concerned about budget creep? Audit cost rates against projected earnings instantly. The system connects everything: from listing high-level projects down to tracking physical check-ins. By connecting this MCP via Vinkius, you get one point of access to your entire resource picture, letting you talk directly to your project data rather than navigating rigid dashboards.

Core Capabilities

01 — Review Team Status and Profiles

List all team members, retrieve detailed profiles including their roles, current availability, and specific project assignments.

02 — Audit Project Workloads

Identify resource over-allocations or underused staff by analyzing complex work plan timelines across multiple projects.

03 — Track Team Availability

View real-time organizational throughput by listing tracked calendar events and physical check-in logs for every team member.

04 — Calculate Financial Profitability

Audit project budgets, bill rates, and cost rates to accurately track financial margins against resource assignments.

05 — Understand Organizational Structure

Enumerate high-level initiatives, discover team member roles, and understand classification methods used for billing and rate setting.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/mosaic-resource-planning-workforce-management** — connect your AI agent in three steps.

01 Subscribe to this MCP on Vinkius.

02 Input your Mosaic API Token and Organization ID into your AI client's settings.

03 Ask your agent a question like, 'Show me the capacity gaps for Project Alpha,' and get an immediate, conversational answer.

The bottom line is you manage complex resource planning by talking to it, instead of clicking through dozens of tabs.

Built For

This MCP is built for high-level managers and specialized coordinators. It's for the Project Manager who spends all day in Gantt charts, or the Operations Director trying to close quarter books while juggling 20 different project cost centers.

Project Manager

Uses this MCP to track work plans and resource assignments without having to manually navigate complex grid views. They ask, 'What's the workload for Q3?' and get an immediate report.

Resource Lead

Checks team capacity by querying calendar events and check-ins. They can spot potential burnout or underutilized staff instantly across all initiatives.

Operations Director

Audits the entire organization's financial health by reviewing project budgets, bill rates, and cost rates to maintain profitability standards efficiently.

What Changes When You Connect

01 Instantly audit project margins: By calling the list_budgets, list_bill_rates, and list_cost_rates tools together, you get a real-time profit snapshot without cross-referencing spreadsheets.

02 Pinpoint capacity bottlenecks: Instead of manually reviewing work plans, ask your agent to analyze resource allocations using list_work_plans to immediately spot over-allocated team members.

03 Understand utilization at a glance: The combination of list_calendar_events and list_check_ins allows you to gauge actual organizational throughput, not just scheduled time.

04 Simplify complex reporting: Need to know how billing works? Use the list_roles and list_rate_groups tools to understand exactly how different project contributors are classified for payment.

05 Manage multiple currencies easily: The list_currencies tool lets your agent apply correct financial logic when auditing costs or budgets, regardless of global operational units.

Real-World Applications

Identifying Project Overload

A PM asks, 'Show me the work plan for Q3 and flag anyone over 90% capacity.' The agent uses list_work_plans to check resource allocations against current team member profiles (list_members), flagging exactly who needs support.

Calculating Project Profit

An Ops Director asks, 'What is the total estimated profit for Project Alpha?' The agent calls list_budgets and cross-references it with list_bill_rates and list_cost_rates to provide an accurate financial estimate.

Reviewing Team Availability

A Resource Lead asks, 'Who is available next week?' The agent uses list_calendar_events and list_check_ins to filter the team roster (list_members) down to only those who have open time slots.

Auditing Financial Scope

A Finance Manager asks, 'What are the billing requirements for our European clients?' The agent uses list_currencies and list_rate_groups to provide a definitive answer on required units and pricing structures.

Patterns to Avoid

Searching for general team status

✗ AVOID

You open the company intranet, click 'Team Directory,' then search by department, copy names, and paste them into an Excel sheet just to see who is on which project.

✓ INSTEAD

Use your agent to call list_members and ask, 'List all members in Department X and show their current roles.' It pulls the data instantly for you.

Manually comparing rates

✗ AVOID

You have two spreadsheets: one with project budgets (list_budgets) and another listing hourly rates. You spend an hour trying to match them up.

✓ INSTEAD

Ask your agent, 'Compare the budget for Project Beta against our standard bill rates.' It uses list_bill_rates and list_budgets simultaneously.

Guessing resource capacity

✗ AVOID

You look at a high-level project scope document but don't know if the resources listed are actually free or booked elsewhere.

✓ INSTEAD

Ask your agent to check 'the current availability for John Doe.' It uses list_calendar_events and get_member to confirm real, bookable time.

The Right Fit

Use this MCP if your pain point is complexity: when resource planning requires weaving together financial data (budgets, cost rates) with temporal availability (work plans, calendar events) across multiple organizational layers. This tool handles the 'how much' and the 'when.' Don't use it if you just need a simple lookup, like finding one person's phone number—a basic contact directory tool works better for that. Similarly, don't use it if your data is entirely siloed outside of Mosaic; this MCP requires an active connection to the platform. It shines when you need conversational synthesis across multiple domains: People + Time + Money.

The sheer number of dashboards and spreadsheets in resource planning is exhausting.

Right now, checking a team's capacity means opening the Gantt chart dashboard. Then you open the budget sheet to check cost rates. If you need to know if that team member works on another project, you have to manually cross-reference three different tabs and copy-paste the data into an email for your boss.

With this MCP, you just ask your agent: 'Show me Project Alpha's resource plan against its budget.' It pulls all those disparate sources together—work plans, cost rates, budgets—and gives you a single, concise answer. You get immediate clarity.

Resource Planning & Workforce Management

The manual steps that vanish include logging into the budget portal just to check list_budgets, opening the calendar system for list_calendar_events, and then going back to a separate sheet just to confirm billing rates (list_bill_rates). It’s a constant cycle of clicking between systems.

Now, you simply ask your agent. The entire workflow—from checking availability to auditing profitability—happens in one conversation. You get actionable insights without the click fatigue.

Mosaic (Resource Planning & Workforce Management) 12 Tools

These tools let you read specific data points—like member lists or budget estimates—and combine them into answers about your workforce, project scope, and finances.

#	TOOL	DESCRIPTION
01	`list_members`	Retrieves a list of every explicit team member mapped in the system.
02	`get_member`	Fetches precise details for one specific team member using their name or ID.
03	`list_work_plans`	Lists scheduled organizational work plans, showing which resources are assigned to what projects over time.
04	`list_calendar_events`	Retrieves a list of all tracked temporal calendar events for scheduling and availability checks.
05	`list_check_ins`	Lists recorded physical log check-ins associated with specific team members.
06	`list_budgets`	Retrieves structured budget estimates for multiple projects or initiatives.
07	`list_projects`	Provides a list of all high-level organizational projects and initiatives tracked in the system.
08	`list_bill_rates`	Lists configured external bill rates used to calculate project revenues.
09	`list_cost_rates`	Retrieves tracked unit limits used for calculating internal operational costs.
10	`list_rate_groups`	Lists defined structured arrays that map generalized billing or resource rate groups.
11	`list_roles`	Provides a list of explicit categorical domains used to classify team member project roles.
12	`list_currencies`	Lists the specific currencies and measurement units used by the team for global financial logging.

See It in Action

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

U List all active team members in my Mosaic instance

I've retrieved your list of team members. Highlights include Alex Smith (Senior Architect), Sarah Johnson (Project Manager), and Mark Rivera (Product Designer). Would you like to see the detailed project assignments for any of them?

U Show me the work plan for the 'New Mobile App' project

Retrieving work plans... I've identified the timeline for 'New Mobile App'. Sarah is allocated at 100% for the next 4 weeks, while Mark is at 50% capacity. There are 2 weeks where your UI resources are currently over-allocated. Would you like to check for available designers?

U What is the budget estimate for project ID 'proj-98765'?

Retrieving budget data for 'proj-98765'... The current estimate is $125,000 based on your resource mappings. This includes $85,000 in billable hours and $40,000 in operational overhead. I can break this down by role if you'd like.

Frequently Asked Questions

01 **How does Mosaic Resource MCP use list_work_plans?**

It uses list_work_plans to map resources across scheduled projects over time, allowing your agent to find gaps or identify staff who are booked 100% for too long.

02 **Can I audit budgets with Mosaic Resource MCP using list_budgets?**

Yes. You can ask the agent to pull current budget estimates (list_budgets) and compare them against your expected bill rates (list_bill_rates) for financial oversight.

03 **Does Mosaic Resource MCP help with team staffing levels?**

Absolutely. By listing members (list_members), you can instantly review roles, availability, and specific project assignments to understand your current resource pool size.

04 **What data does list_check_ins provide in Mosaic Resource MCP?**

The tool provides records of physical log check-ins per member. This helps you verify actual on-site presence and track attendance history for payroll or project logging.

05 **How do I check cost rates with Mosaic Resource MCP?**

You use the list_cost_rates tool to access explicitly tracked unit limits, which are crucial for accurately calculating internal operational costs associated with projects.

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 `"mosaic-resource-planning-workforce-management": { "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

Mosaic (Resource Planning & Workforce Management) 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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Endpoint	`https://edge.vinkius.com/{token}/mcp`

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