

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

Bicycle Commute Readiness MCP

Know if you have the right gear and enough time to ride.

Bicycle Commute Readiness MCP helps you decide if you're actually prepared to head out on your bike. It checks your current gear against the weather and your route logistics so you don't get caught in the rain or arrive late to work. Your AI client uses this to verify your kit and calculate exactly when you need to leave.

A+ Quality Score 100/100

cycling

commute

weather

safety

travel



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.

Bicycle Commute Readiness MCP

4 tools available

Cloud-hosted on Vinkius

Stop guessing if you packed enough for your ride. This MCP acts as a decision support tool for cyclists who need to sync their gear with real-world conditions. You can give your AI client a list of what you have in your bag, and it will cross-reference that against the current temperature, precipitation, and light levels. It identifies if you're missing essentials like lights for a dark morning or a waterproof jacket for a sudden downpour. Beyond gear, it handles the math for your trip. You can provide your destination and speed to find your latest possible departure time. It's a quick way to ensure your commute is safe and on schedule without manual checking.

Core Capabilities

01 — Gear Auditing

Your agent compares your inventory against weather needs to find missing items.

02 — Departure Timing

The AI calculates your latest possible departure time based on distance and speed.

03 — Weather Adaptation

Your client identifies necessary clothing and equipment for specific temperatures.

04 — Safety Checks

The MCP determines if lighting gear is mandatory for your specific commute time.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/bicycle-commute-readiness — connect your AI agent in three steps.

01 Connect the MCP to Claude, Cursor, or Windsurf via Vinkius.

02 Tell your AI client your gear, distance, speed, and destination.

03 Provide the current weather and time conditions.

04 Receive a readiness report and departure time.

Connect the MCP to your client and start asking about your ride.

Built For

Daily cyclists who want to automate their pre-ride checks.

Daily Commuters

They hand off their gear list and arrival times to the AI to confirm readiness.

Cycling Enthusiasts

They use the tool to prepare for specific weather conditions or longer rides.

What Changes When You Connect

01 Reduces the risk of being under-equipped for weather changes.

02 Prevents late arrivals by calculating precise departure windows.

03 Ensures safety by flagging necessary lighting requirements.

Real-World Applications

Morning Prep

Check if you have your lights and jacket before leaving the house in the dark.

Weather Shifts

Find out what extra gear to grab when the forecast changes to rain or snow.

Time Management

Calculate exactly when to start pedaling to hit a specific meeting time.

Inventory Check

Verify your bag contains everything needed for the current temperature.

Patterns to Avoid

Vague inventory lists

❌ AVOID

You tell your agent you have 'some gear' and expect it to know if you're ready for rain.

✓ INSTEAD

Provide a specific list of what is in your bag. Use `check_commute_readiness` to get a full assessment of what you actually have versus what you need.

Ignoring light requirements

❌ AVOID

You assume your morning ride is bright enough and skip checking your lights.

✓ INSTEAD

Always run `validate_lighting_needs` to see if the current light levels make extra gear mandatory for your specific time slot.

Manual travel math

❌ AVOID

You try to guess your departure time by looking at a map and a clock.

✓ INSTEAD

Give your agent your destination and speed, then use `calculate_travel_window` to find your latest possible departure time.

The Right Fit

Daily cyclists and enthusiasts should connect this MCP if they want to automate their pre-ride checks. People who don't care about

weather shifts or precise arrival times won't find value here. The decision comes down to whether you want your agent to handle the math and gear auditing for you.

Bicycle Commute Readiness 4 Tools

These tools handle everything from gear audits to travel timing. They bridge the gap between your current inventory and the actual weather conditions on the road.

#	TOOL	DESCRIPTION
01	validate_lighting_needs	This tool checks if you need to carry lights based on how dark it is during your ride.
02	calculate_travel_window	This tool determines your travel duration and the latest time you can leave to arrive on schedule.
03	check_commute_readiness	Use this to get a complete assessment of your gear, missing items, and departure timing.
04	get_weather_requirements	This tool identifies the specific gear you need based on the current weather forecast.

See It in Action

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

U I have a 10km bike ride at 15km/h. I need to arrive by 09:00. It is currently 08:00, it is sunny, 20 degrees, and not dark. My gear is: helmet, bike. Am I ready?



You are ready to depart. You have your helmet packed. Your latest departure time is 08:24.

U I have a 5km ride at 10km/h. I must arrive by 18:00. It is rainy, 5 degrees, and it is dark. My gear is: helmet, rain jacket.



You are missing items. Missing items: front light, rear light. Your latest departure time is 17:30.

U What gear do I need for a snowy day at -2 degrees Celsius?



For snowy and cold conditions, you should have: gloves, thermal jacket, waterproof pants.

Frequently Asked Questions

01 What can this MCP do for my bike ride?

It assesses your gear, checks weather requirements, validates lighting needs, and calculates your departure time.

02 Which AI clients can I use with this?

You can use this MCP with any compatible client like Claude, Cursor, Windsurf, or VS Code.

03 How does it know if I need lights?

The `validate_lighting_needs` tool checks the light levels during your commute to see if lights are mandatory.

04 Can it help me avoid being late?

Yes, the `calculate_travel_window` tool finds your latest possible departure time based on your speed and distance.

05 Do I need to set up my own hosting?

No, Vinkius hosts and manages the MCP for you. You just connect it to your client.

06 How does the tool determine if I am ready?

The tool uses `check_commute_readiness` to compare your current gear against requirements for weather, lighting needs, and safety, while also calculating your departure window.

07 Can I check gear requirements for specific weather?

Yes, you can use `get_weather_requirements` to find out exactly what gear you need for specific temperatures or weather conditions like rain or snow.

08 How is the departure time calculated?

The `calculate_travel_window` tool calculates your latest departure time by subtracting your estimated travel duration from your required arrival deadline.

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>"bicycle-commute-readiness": { "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

Bicycle Commute Readiness 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

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Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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