MCP SERVER | NO CODE | CLOUD HOSTED

Bloom Sequence Planner for gardens.

Keep your garden in bloom all season long.

Bloom Sequence Planner helps you design garden beds that never look empty. It calculates the exact timing of plant flowering to ensure you have continuous color. Your AI client can use this to find gaps in your schedule, check if your color transitions look good, and make sure you aren't overstuffing your garden beds.

A+ Quality Score 100/100

plants | bloom | garden | scheduling | botany | landscape

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vinkius.com/en/ai-agent-connect/bloom-sequence-planner

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.

Bloom Sequence Planner MCP

4 tools available
Cloud-hosted on Vinkius

You can stop guessing when your garden will look its best. This MCP acts as a horticultural engine that maps out exactly when every plant in your collection will flower. Instead of ending up with bare dirt between seasons, you can use your agent to find the perfect chronological order for your plantings.

It handles the math of bloom windows so you don't have to. You can check if your current plant list leaves any dead zones in the calendar or if you're overusing your available space. If you have a specific look in mind, the tool can even verify that your color transitions follow your design rules. It's a practical way to turn a random collection of plants into a planned, flowing landscape that stays vibrant from spring through fall.

Core Capabilities

01 — Gap Detection

Your agent identifies empty periods in your planting schedule.

02 — Capacity Management

The AI calculates how much space your plants occupy in a bed.

03 — Sequence Optimization

Your client generates a chronological order for continuous flowering.

04 — Color Validation

The tool checks if plant colors transition according to your design rules.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/en/ai-agent-connect/bloom-sequence-planner** — connect your AI agent in three steps.

01 Connect your preferred MCP-compatible client to Vinkius.

02 Provide your list of plants and their bloom dates to your agent.

03 Ask the agent to run specific tools like planning or gap analysis.

04 Review the optimized planting sequence or capacity report.

Connect your AI client to Vinkius and start planning your garden immediately.

Built For

This is for people who want to move from random planting to professional landscape scheduling.

Landscape Designers

They hand off plant lists to the AI to verify color flows and bloom continuity.

Home Gardeners

They use the tool to ensure their flower beds stay colorful all season.

Horticulturists

They use the math-based tools to manage bed capacity and planting windows.

What Changes When You Connect

01	Eliminates empty periods in your garden schedule.
02	Prevents overstuffing garden beds by tracking capacity.
03	Ensures color transitions match your aesthetic goals.
04	Automates the math of overlapping bloom windows.

Real-World Applications

Continuous Bloom Planning

You provide a list of plants and the AI finds an order that keeps flowers visible for the longest time.

Color Palette Verification

You check if a sequence of plants will transition smoothly from one color to the next.

Space Optimization

You determine if you have enough room in a specific bed for your planned plants.

Schedule Auditing

You find hidden gaps in your existing planting plan where the garden will look bare.

Patterns to Avoid

Ignoring seasonal gaps

AVOID

You pick a bunch of plants you like and hope they bloom at different times so the garden isn't empty in July.

✓ INSTEAD

Use `analyze_bloom_gaps` to find exactly where your schedule has holes so you can fill them with the right species.

Overcrowding garden beds

AVOID

You buy every plant on your wishlist and try to squeeze them all into one small raised bed.

✓ INSTEAD

Run `calculate_bed_capacity_usage` first to see if your planned plants actually fit in the available space.

Random color selection

AVOID

You pick plants based on individual color without checking if the transition from blue to yellow looks messy.

✓ INSTEAD

Check your sequence with `validate_color_palette` to ensure the colors follow your specific design rules.

The Right Fit

Connect this MCP if you manage professional landscapes or large home gardens where continuous color is a priority. Do not connect it if you are just planting a few single-season annuals in pots. The decision comes down to whether you need to manage complex planting windows and bed capacity.

Bloom Sequence Planner Toolset

These tools handle the math of bloom windows, bed capacity, and color transitions to keep your landscape vibrant.

#	TOOL	DESCRIPTION
01	`analyze_bloom_gaps`	This tool finds specific dates where no flowers will be blooming in your current plan.
02	`calculate_bed_capacity_usage`	This tool measures how much of your garden bed is actually being used compared to the total available space.
03	`plan_bloom_sequence`	This tool creates the best chronological planting order to keep flowers appearing continuously.
04	`validate_color_palette`	This tool checks if your chosen plant sequence follows your specific rules for color transitions.

See It in Action

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

U Plan a sequence for 5 slots for a 30-day continuous bloom period using these plants: Tulip (Day 1-10, Red), Daffodil (Day 8-20, Yellow), Pansy (Day 18-35, Blue).

The optimal sequence is: Tulip (starts Day 1, Red), Daffodil (starts Day 8, Yellow), and Pansy (starts Day 18, Blue).

U Are there any gaps in my current garden schedule with these plants: Rose (Day 10-40, Red) and Lily (Day 45-60, White)?

Yes, there is a gap between Day 40 and Day 45 where no flowers will be blooming.

U Check if my color transition from Red to Yellow is allowed.

The transition from Red to Yellow is valid according to your allowed transitions.

Frequently Asked Questions

01 **How does this MCP help with garden design?**

It uses bloom windows and color rules to create a schedule that ensures continuous flowering and smooth color transitions.

02 **Can I use this with Claude or Cursor?**

Yes, you can connect this MCP to any MCP-compatible client like Claude, Cursor, or Windsurf.

03 **What happens if I have a gap in my planting schedule?**

The analyze_bloom_gaps tool will identify the specific dates where no flowers are scheduled to be in bloom.

04 **Does this tool manage my physical garden space?**

It manages the digital plan by using the calculate_bed_capacity_usage tool to see how much of your bed is being used.

05 **How do I ensure my colors look right?**

You can use the validate_color_palette tool to check if your plant sequence follows your specific color transition rules.

06 **How do I ensure my garden has no gaps in color?**

You can use the `plan_bloom_sequence` tool to generate a planting order that ensures at least one plant is blooming at any given time within your target duration.

07 **Can I check if my color transitions are aesthetically pleasing?**

Yes, the `validate_color_palette` tool allows you to define permitted color pairings to verify your sequence follows specific aesthetic rules.

08 **How do I know if I have enough space for my plants?**

The `calculate_bed_capacity_usage` tool provides the utilization percentage and the number of remaining slots in your garden bed.

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 `"bloom-sequence-planner": { "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

Bloom Sequence Planner 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`

LICENSE & USAGE

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