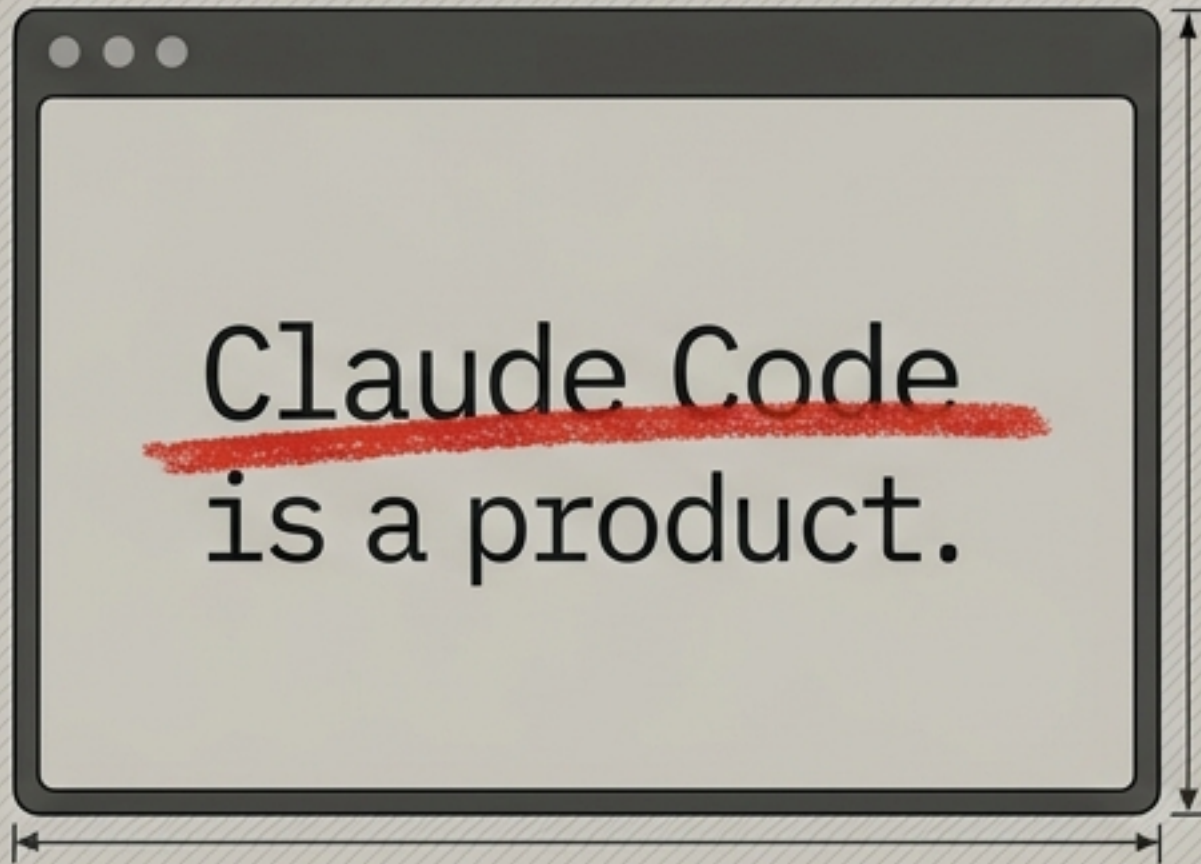
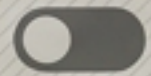


# The Architecture of Control

Migrating to Claude Agent SDK and  
Deploying Safe MCP Creative Workflows

**Target Audience:** Technical Builders, Creative Technologists, and Software Architects  
**Framework Version:** Updated for mid-2026 infrastructure

# Consumer App

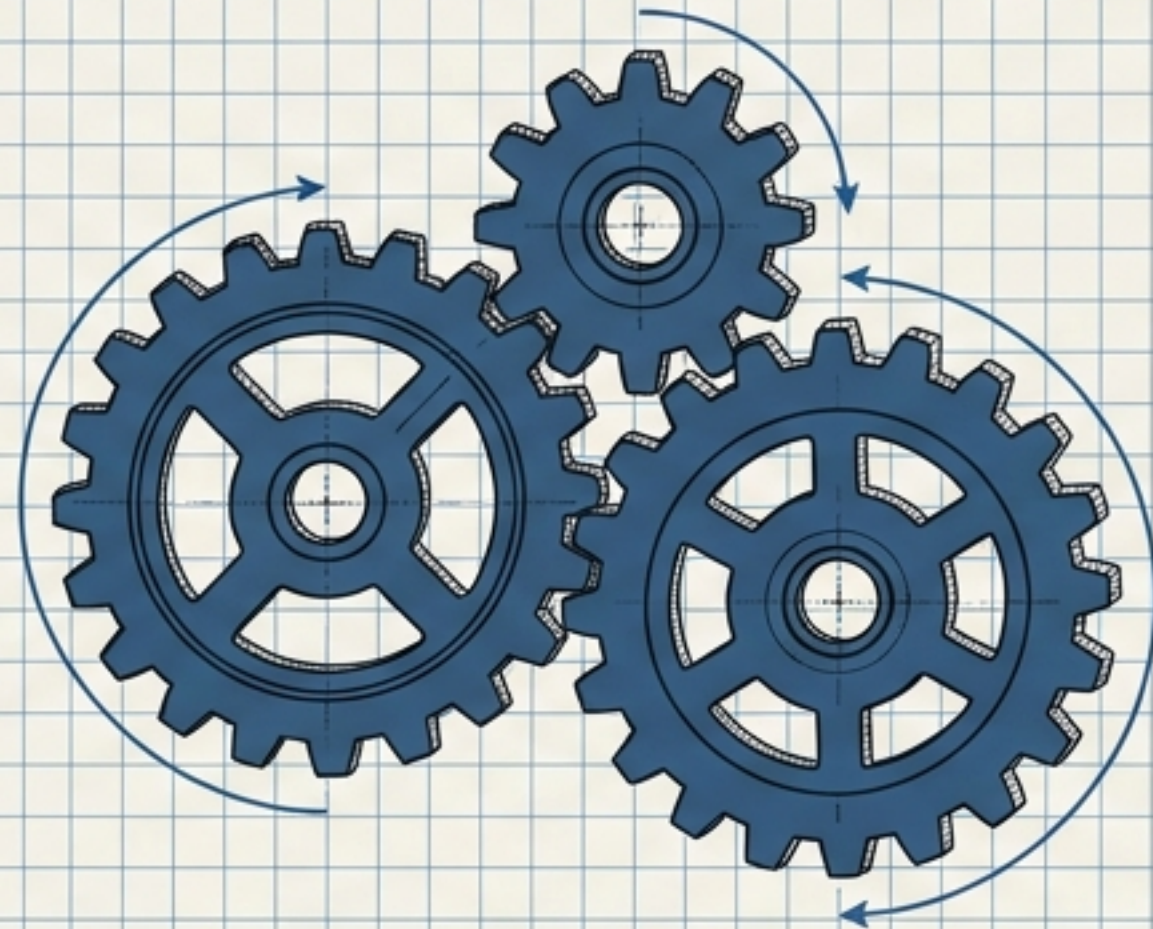


Claude Code  
is a product.

- Chat-based terminal interface
- Prohibited partner branding
- No programmatic orchestration



# Platform Infrastructure



**The Agent SDK is the platform.**

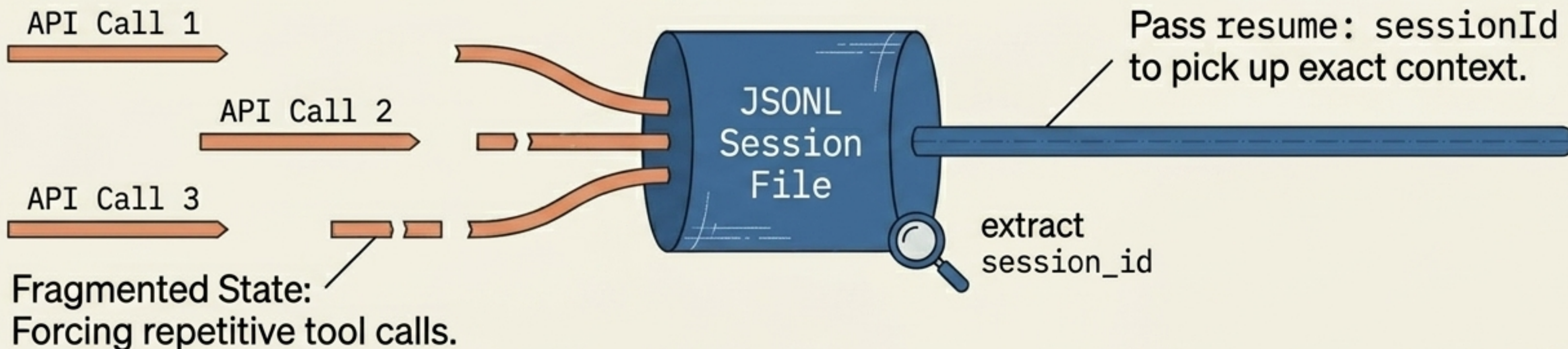
- Headless, programmatic integration
- Custom Python/TypeScript apps
- Autonomous file, shell, and subagent loops

# The SDK Migration Matrix

Dimension	Before (April 2026)	After
TypeScript Package	@anthropic-ai/claude-code	@anthropic-ai/claude-agent-sdk
Python Package	claude-code-sdk	claude-agent-sdk
Options Class	ClaudeCodeOptions	ClaudeAgentOptions
Binary Footprint	Separate installation required	Native binary bundled as optional TS dependency
API Continuity	query() async generator	Unchanged. Generator API remains strictly identical.

# Session Continuity: Stop Re-reading Files

## Continuity Thread



### 1. Listen

Wait for `SystemMessage` (subtype `init`) before work begins.

### 2. Extract

Grab the `session_id` (e.g., `sess_01XxXxxXx...`).

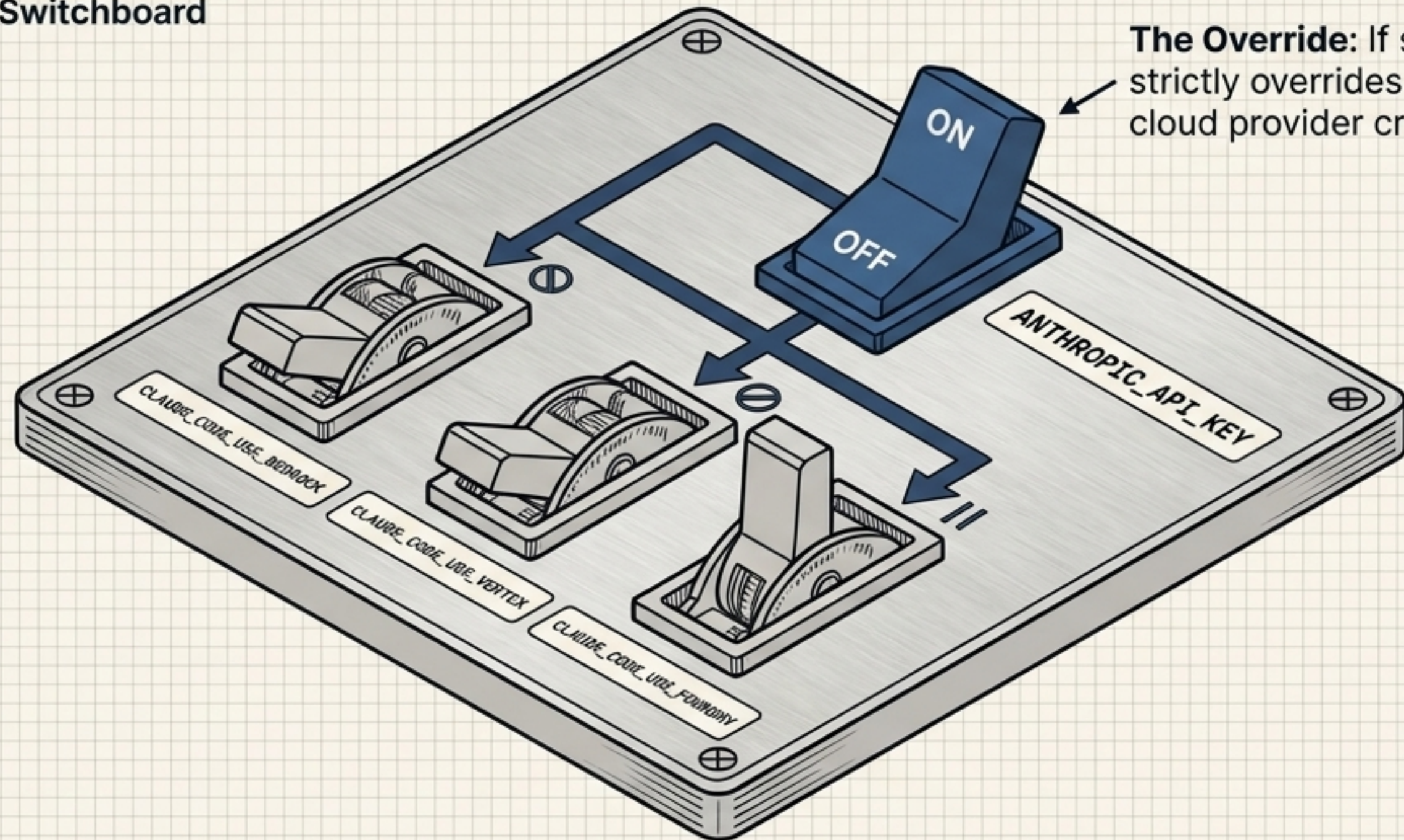
### 3. Resume

Inject `resume: sessionId` in options for zero redundant tool calls.

# Multi-Cloud Auth via Environment

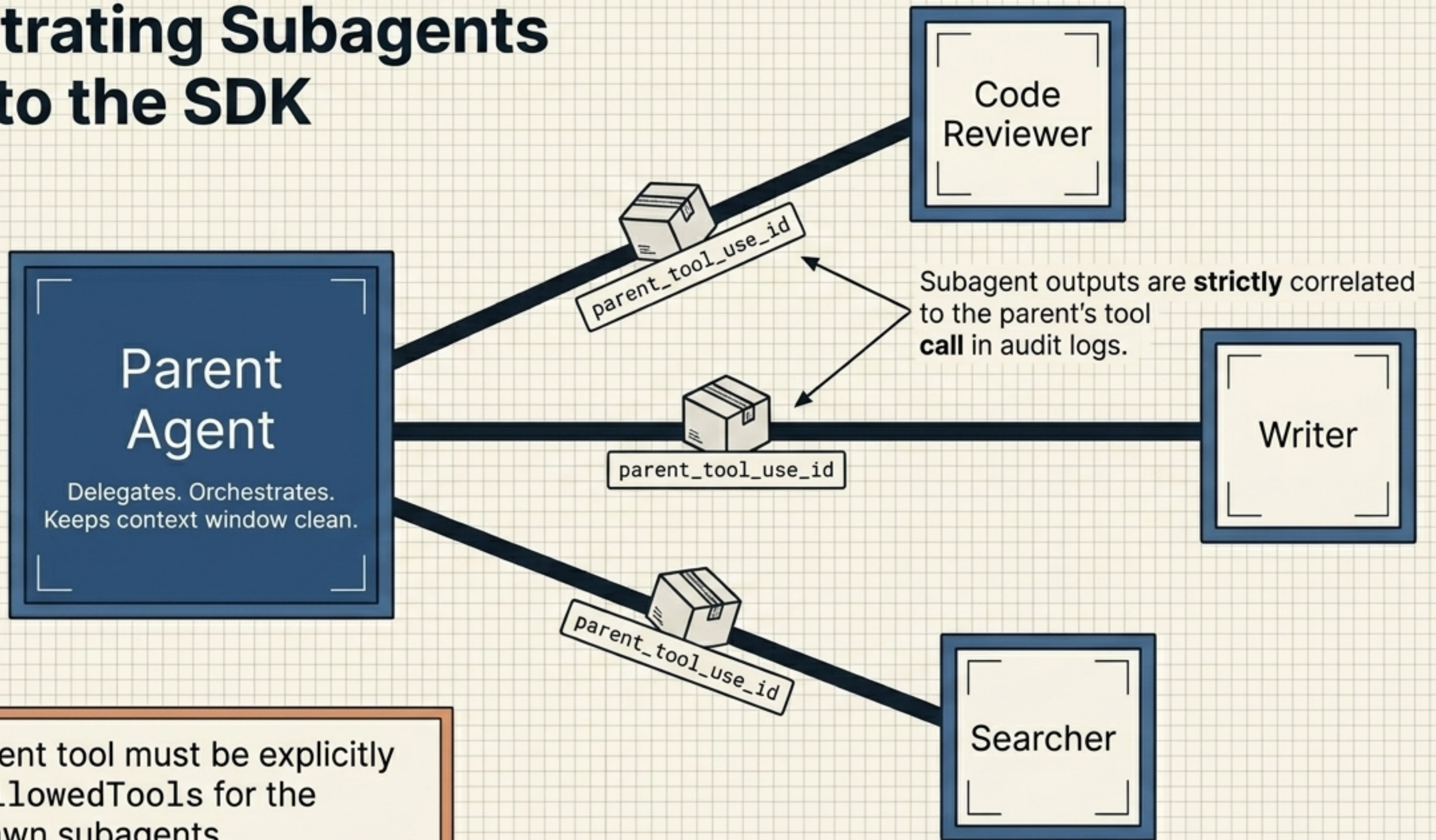
Zero constructor arguments. Configured entirely via the environment.

Toggle Switchboard



**The Override:** If set, this strictly overrides all cloud provider credentials.

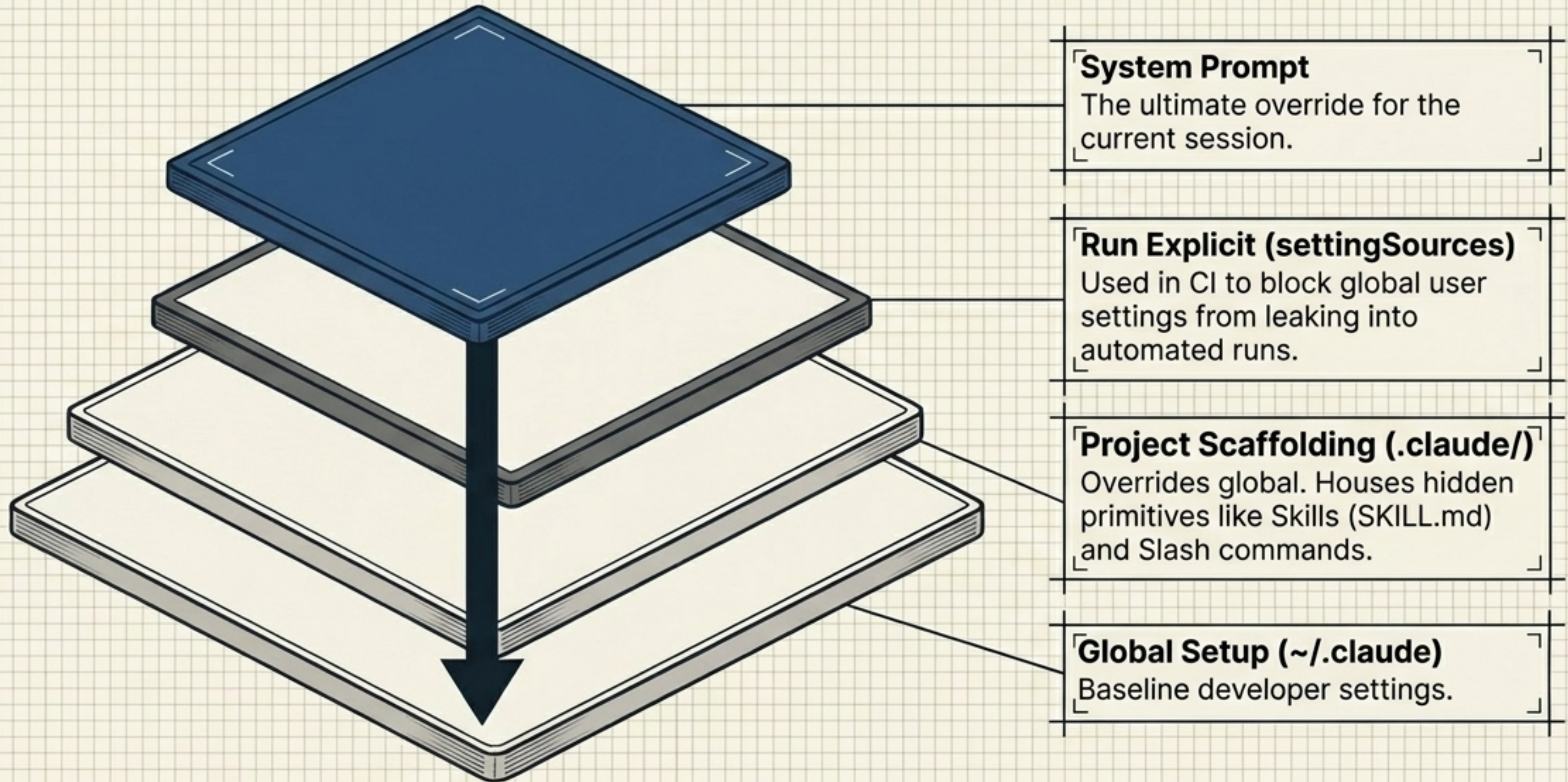
# Orchestrating Subagents Native to the SDK



**Rule:** The Agent tool must be explicitly enabled in `allowedTools` for the parent to spawn subagents.

# Configuration Loader Hierarchy

Debug flow: Top layers strictly override bottom layers.



# The Agent Tool Risk Matrix

There is no 'allow all' shortcut. Every tool must be explicitly declared.

## Safe to Allow Broadly (Read-Only & Search)

Read	Glob	Grep	WebSearch
WebFetch	Monitor	AskUserQuestion	

## Caution: Version Control Required (Destructive Potential)

Write	Edit
-------	------

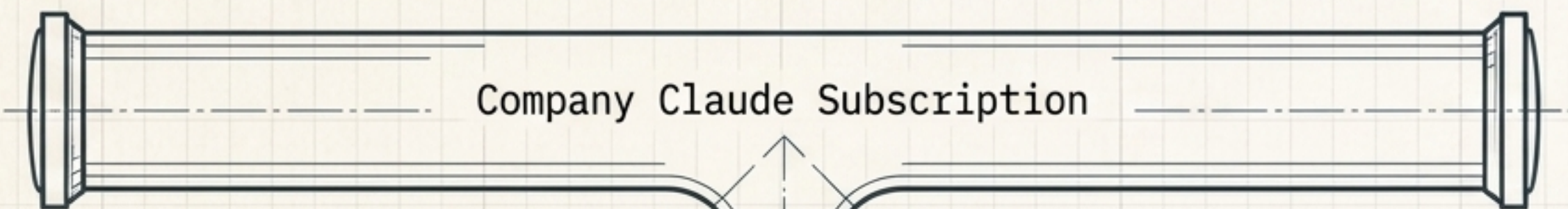
## Strict Sandbox Required (Arbitrary Code Execution)

Bash
------

**Strictly** reserved for fully sandboxed containers.  
Never deploy to open developer workstations.

# Navigating the June 15 Billing Split

## Data Routing Funnel



### Checklist:

- Audit workload paths (Interactive vs Managed)
- Log billing paths in CI
- Set explicit budget alarms



### Interactive Plan

Used by conversational chat and claude -p

## The June 15 Split



### Agent SDK Credit

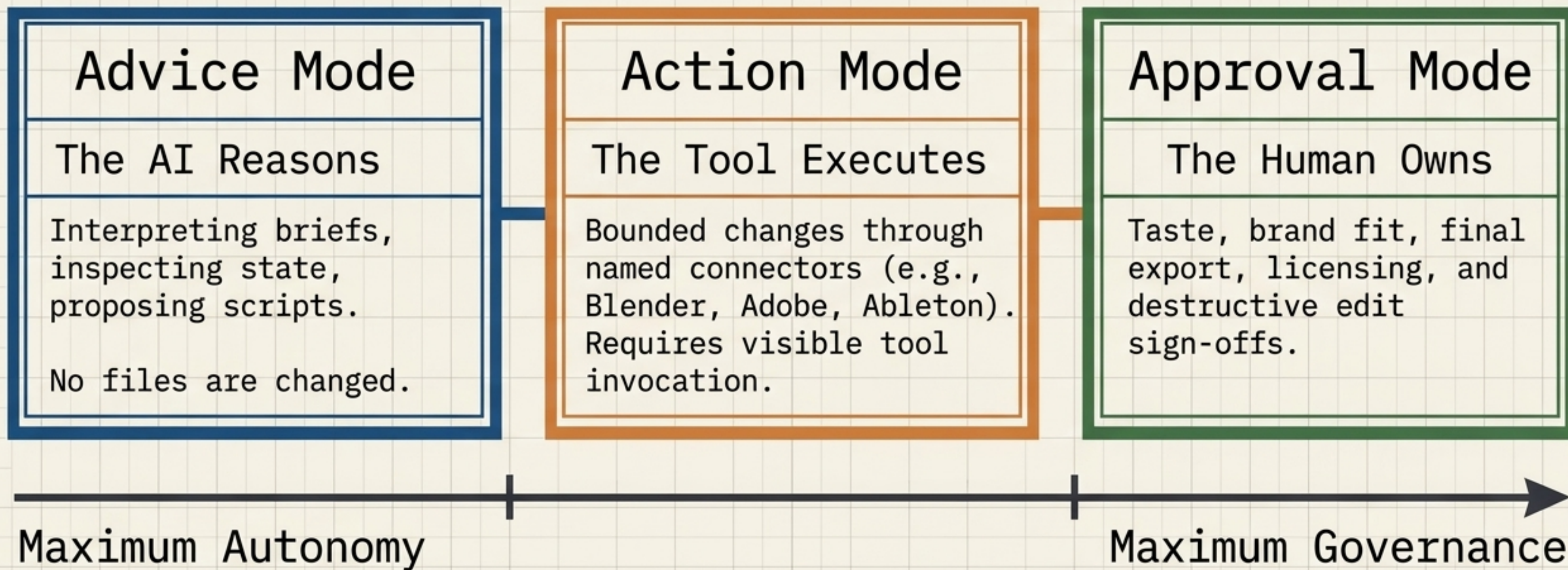
Used by Agent SDK and custom apps.

### Overflow Alarm:

Only bills at standard API rates if extra usage is explicitly enabled.

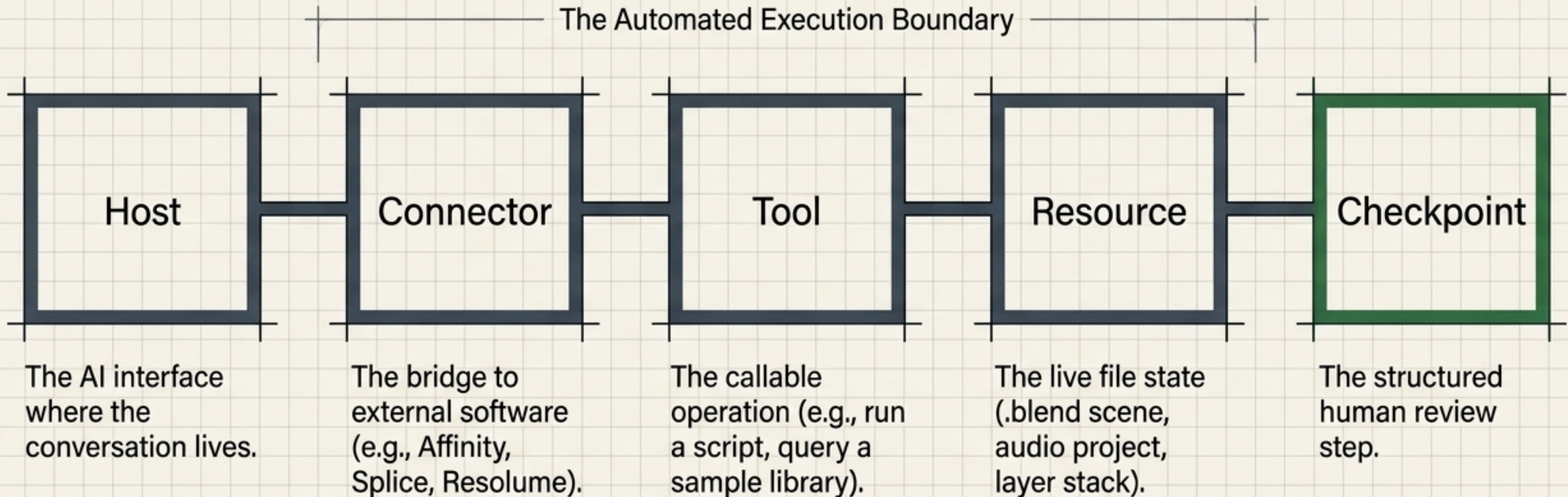
# Deploying MCP: Three Operational States

Moving from AI autonomy to absolute human governance.



# The Anatomy of an MCP Map

A concrete, 5-node pipeline for designing creative workflows.



# Safe Execution: The Duplicate & Verify Approach

## The Unsafe Approach

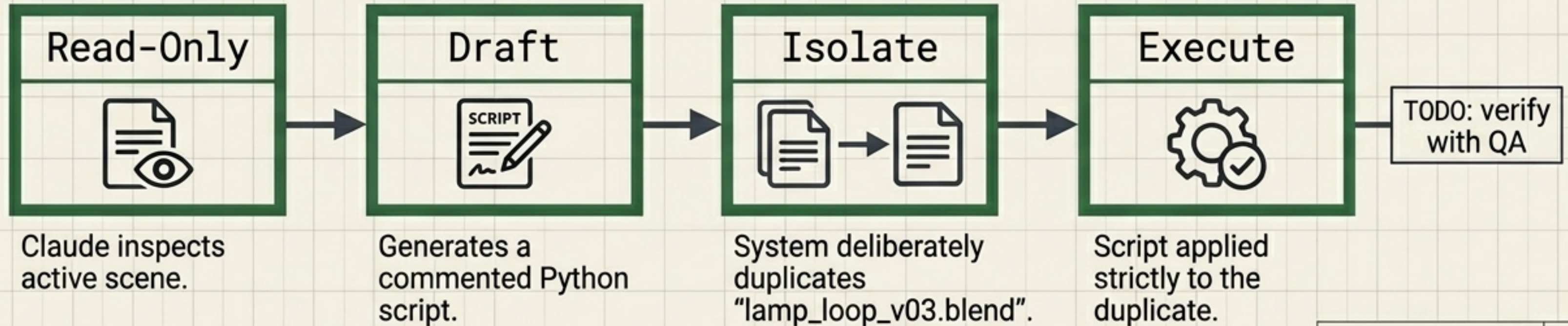
"make it cinematic"



**Bypasses review.  
Overwrites live source file.**



## The **Safe** Approach



# The Creative Control Matrix

Exact operational boundaries between AI drafting and Studio ownership.

## Claude Autonomy Zone

- Generative drafting and ideation
- System inspection (summarizing lighting/material state)
- Repetitive production task execution
- Generating structural checklists from documentation

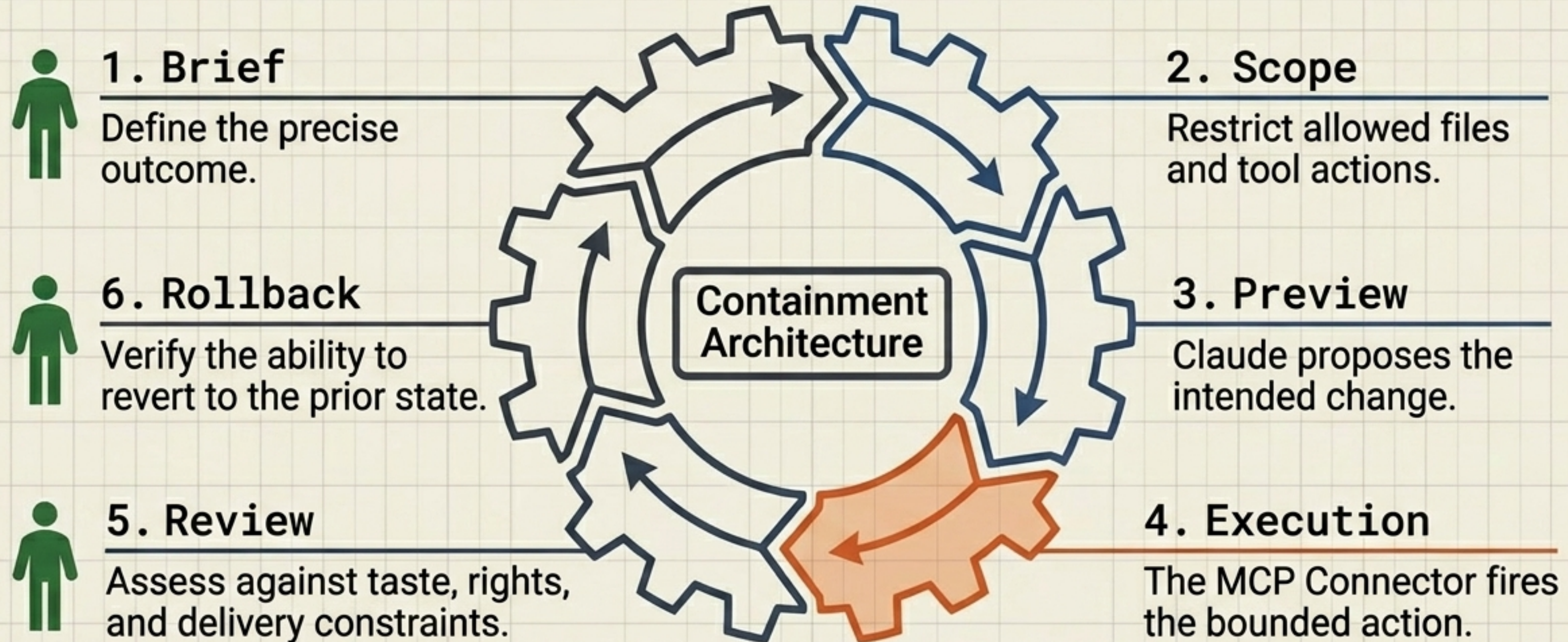
## Human Ownership Zone

- Final asset brand fit and art direction
- Commercial licensing clearance (e.g., Splice sample rights)
- Destructive file overwrites and state commits
- Ethical/legal safety and final release delivery

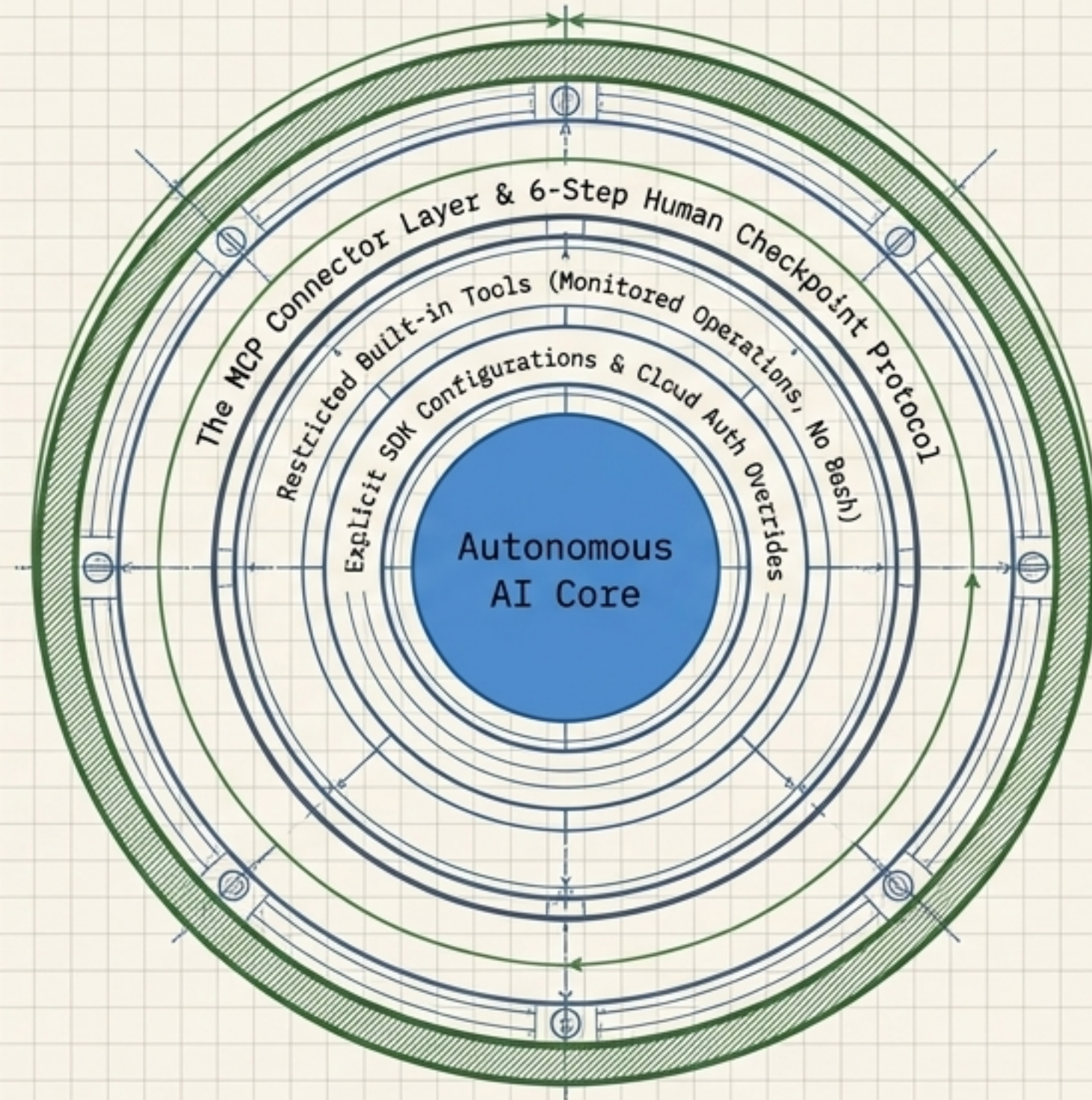
Never surrender creative direction to the model.  
Use MCP to expose actions, not to delegate taste.

# The 6-Step Production Control Loop

Standard operating procedure for every creative connector action.



# The Bounded Agent Architecture



**True automation in production environments isn't about giving the AI more freedom. It is about designing perfect, visible boundaries so the AI can operate at maximum velocity within a secure sandbox.**