

The Private-AI Deployment Blueprint

THE AI SURFACE, DRAWN AS ONE ASSEMBLY

Every AI app and agent, the vibe-coded ones included, lives the same lifecycle: it gets built, it runs, someone watches it, something governs it, and something keeps it safe. [BROCS](#) is that lifecycle written down: Build, Run, Observe, Control, Secure. This drawing is the framework as one assembly, standing inside your perimeter on infrastructure you own, with each stage served by a Calliope AI machine.

the drawing begins uncolored. scroll, and each machine powers on in its maker's color: ■ WORKBENCH ■ ASTROLIFT ■ ZENTINELLE

THE MACHINES ON THIS SHEET



SHT 01 THE ASSEMBLY · THE AI SURFACE

SCALE NTS · DIMETRIC 2:1

AI

The AI surface

ALL FIVE STAGES COMMISSIONED

An app or agent is built in Workbench, runs on Astrolift, and is observed, controlled, and secured by Zentinelle, all provisioned and governed through Client Cove.

SERVED BY

 Calliope AI
Workbench

BUILD · RUN ·
OBSERVE

- Astrolift

RUN · OBSERVE · CONTROL

Zentinelle

OBSERVE · CONTROL ·
SECURE

GENERAL NOTES

- | | | | | | | | |
|----|---|----|--|----|--|----|--|
| 01 | Everything runs in your environment. Your cloud, your racks, your rules. | 02 | Any model welcome: local open weights, cloud hosted, or bring your own, served inside. | 03 | Nothing leaves the perimeter. Models, prompts, data and audit stay in. | 04 | Lead time drops. One integrated happy path from idea to governed production. |
| 05 | Technical and business builders alike get autonomy and flexibility, while the org keeps control and visibility. | | | | | | |

DRAWING

The AI surface

PROJECTION

Dimetric 2:1

STAGES

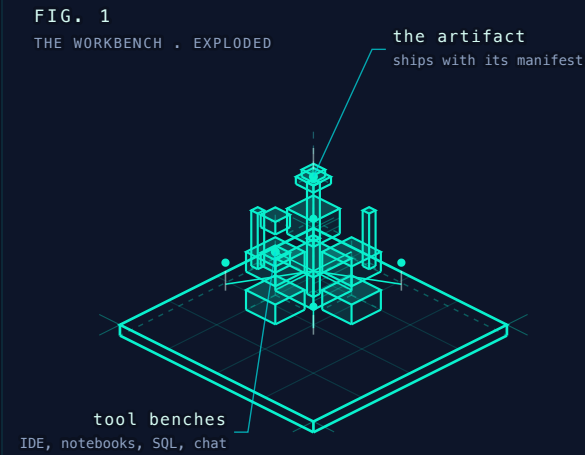
B · R · O · C · S

PERIMETER

Yours

EGRESS

None required



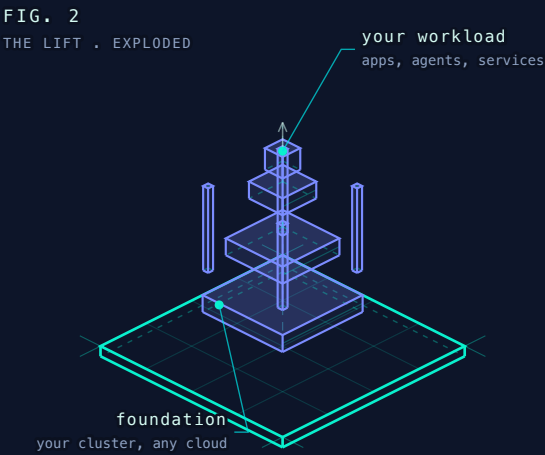
Calliope AI Workbench

PART CAL-WB-01 · QTY 1 PER TEAM

B R O C S

Compose apps and agents on one governed bench. The tool stack your builders already reach for, assembled and installed inside your perimeter through the Workbench Installer.

calliope.ai ↗



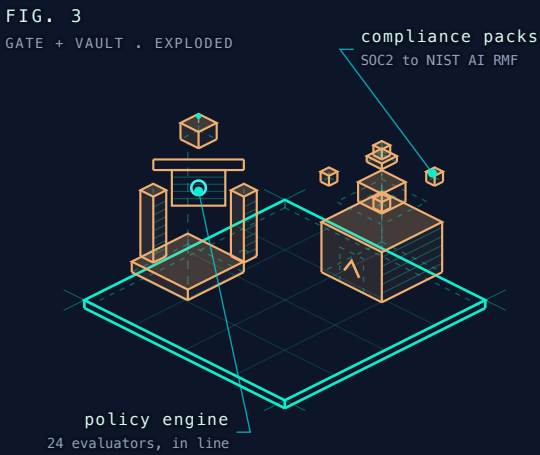
Astrolift

PART CAL-AL-02 · QTY 1 PER CLOUD

B R O C S

Deploy and serve at scale. A multi-cloud and on-prem Kubernetes PaaS that lifts what the bench built into production and streams the platform telemetry back.

astrolift.ai ↗



Zentinelle

PART CAL-ZN-03 · QTY 1 PER FLEET

B R O C S

Agent governance, risk and compliance. The sentinel watches what agents do, the gate governs what they may do, and policy is enforced at runtime, with the audit trail to prove it.

zentinelle.ai ↗

COVERAGE	ASSEMBLY ORDER	SUBSTRATE
Full = solid cell · shared = dashed cell	Any. The surface composes	Your compute

The machines are independent, and they compose. Adopt any one alone, stand the bench on the platform, put the gate inside it, close the whole loop, or mesh sites that manage each other across regions. Every pattern lands the same way on AWS, Google Cloud, Azure, your own racks on Kubernetes, or air-gapped metal: the drawing does not change when the ground does.

STANDALONE
any machine, alone



WORKBENCH ON ASTROLIFT
the bench rides the platform



ZENTINELLE IN ASTROLIFT
the gate inside the platform



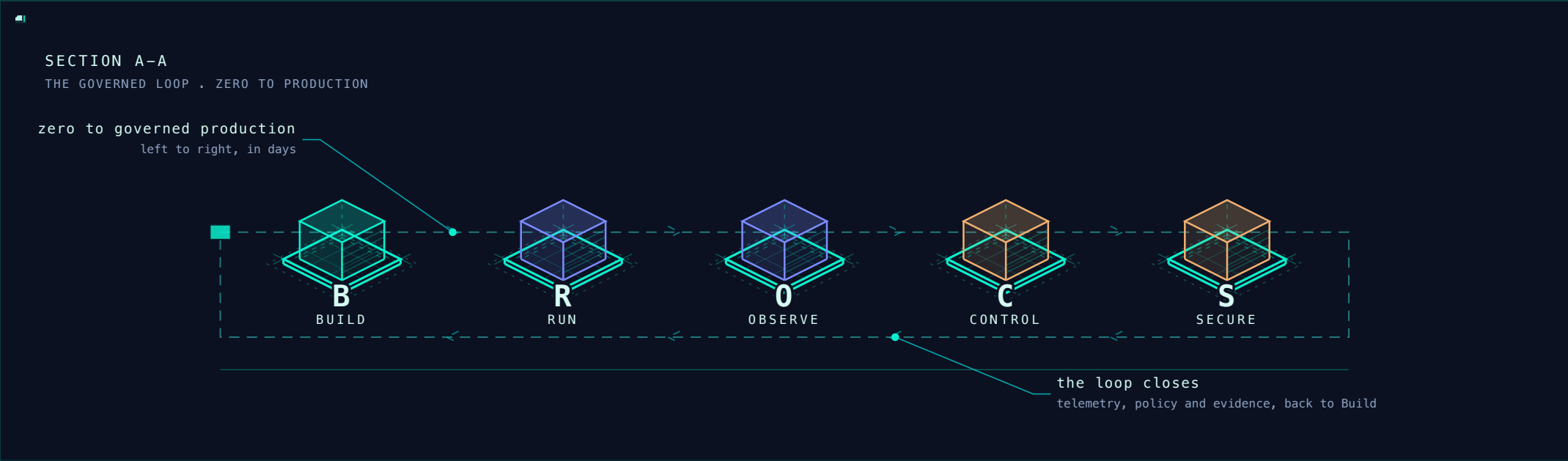
THE FULL LOOP
build, run, watch, govern



MESH
sites managing sites



PATTERNS	GROUND S	SUBSTRATE
Standalone · stacked · embedded · full loop · mesh	AWS · Google Cloud · Azure · on-prem · air-gapped	EKS · GKE · AKS · Kubernetes · ECS · Cloud Run



REFERENCE ARCHITECTURE

The full assembly drawing for AWS, Google Cloud, Azure, on-prem and air-gapped sites: network layout, substrate sizing, and where each machine stands.

SECURITY AND GRC CHECKLIST

Control mapping across nine compliance frameworks, so the drawing your engineers deploy is the drawing your auditors sign.

BUY VS BUILD

The honest cost model: what the assembly replaces, what it costs to run, and what building the same surface yourself would take.

Deploy inside your perimeter.

Self-host enterprise AI in days. Stop choosing between moving fast and staying in control.

BOOK A DEMO

DOWNLOAD THE PDF

DRAWING The Private-AI Deployment Blueprint	NO CAL-SURF-001	REV A	DATE 2026-08-21	DRAWN BY Calliope Labs Inc
SITES calliope.ai · astrolift.ai · zentinelle.ai				