PHASE 1 — CORE SPINE & HOSTING BUILD SHEET

Objective: Deploy a secure, multi‑region‑ready backbone that can run both your personal content automation and the B2B company‑facing platform.

1️⃣ Hosting & Environment Setup

Goal: Get a global, compliant, and scalable home for the AI.

• Choose Cloud Provider → Azure (recommended for Caribbean, Africa, MENA, Europe coverage)

• Create Resource Groups → One per region:

• (US East or West)

• (South Africa North)

• (UAE North)

• (West Europe)

• Enable Multi‑Region Failover → Azure Traffic Manager or Front Door for automatic rerouting

• Set Up Edge Caching → Azure CDN for faster content delivery

2️⃣ Security & Access Control

Goal: Protect APIs, assets, and client data from day one.

• Identity Management → Azure Active Directory with role‑based access

• API Key Vault → Azure Key Vault for storing YouTube, CMS, and other API credentials

• Encryption → Enable encryption at rest + in transit (TLS 1.2+)

• Audit Logging → Turn on Azure Monitor + Log Analytics for every action

3️⃣ Core AI Spine Shell

Goal: Create the “empty frame” where modules will plug in.

• Command Interface

• Web dashboard (React, Next.js, or no‑code like Bubble for MVP)

• Chat input + action buttons

• Workflow Orchestrator

• Use Azure Logic Apps or n8n for no‑code automation

• Define “trigger → action → confirmation” pattern

• Data Layer

• Azure Blob Storage for media

• Azure Cosmos DB or PostgreSQL for structured data (metadata, logs)

4️⃣ Regional Tagging & Routing

Goal: Make the AI region‑aware from the start.

• Account Metadata → Store + tags for each company

• Routing Logic → Direct requests to nearest region’s compute resources

• Localization Placeholder → Create empty slots for language packs & compliance rules

5️⃣ Test & Verify

Goal: Ensure the spine is stable before adding modules.

• Ping Test → Verify latency from each target region

• Security Test → Attempt API calls without keys (should fail)

• Failover Test → Simulate a region outage and confirm rerouting works

✅ Deliverable at End of Phase 1:

A secure, multi‑region AI backbone with a working dashboard shell, ready to accept the first automation module.