

Aura Visual Studio

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Technical Roadmap: The_48_Hour_Node_Launch // v.05

1. Objective: High-Velocity Deployment

The 48-hour sprint is designed to move a system from concept to a live production environment. The goal is not perfection, but **functional utility**. This roadmap focuses on deploying a Minimum Viable Node (MVN) that solves one specific friction point—usually lead qualification or data routing.

2. Hour 0–12: Architecture & Logic Mapping

Before a single line of code is written, the logic must be ironed out. A flawed blueprint results in a broken agent.

- **Define the Trigger:** What event starts the agent? (e.g., Form submission, incoming webhook, Discord message).
- **The Knowledge Base (RAG):** Scrape your internal documentation and technical manuals. Convert them into markdown files for the agent to ingest.
- **The Decision Tree:** Map the "Yes/No" paths for the agent. If the client says [X], the agent must do [Y].

3. Hour 12–24: Infrastructure & Integration

Building the "body" of the agent. This involves connecting your LLM of choice to your existing business stack.

- **LLM Selection:** Use GPT-4o for complex logic or a local Llama-3 (via Ollama) for privacy-sensitive data.
 - **The Middleware Handshake:** Connect your frontend (Webflow/HTML) to your backend (Airtable/CRM) using **Make.com** or **n8n**.
 - **Vector Injection:** Upload your markdown files into a vector store (Pinecone or local ChromaDB) so the agent can reference your specific business facts.
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4. Hour 24–36: Personality & Constraint Tuning

An agent without constraints is a liability. You must define the "System Prompt" to lock the agent into its professional role.

- **Behavioral Constraints:** "Do not discuss pricing," "Always redirect to the Strategy PDF," or "Limit responses to 3 sentences."
- **Identity Anchoring:** Ensure the agent knows its name, its purpose, and the specific technical stack it represents.
- **Prompt Testing:** Run 50 "Stress Tests" using varied inputs to see where the logic breaks. Adjust the temperature settings (keep it low, around 0.2–0.5 for functional tasks).

5. Hour 36–48: Live Deployment & Fail-safes

Moving from the staging environment to your live domain.

- **Endpoint Connection:** Link the agent's API to your website's chat interface or contact form.
- **The Human-in-the-Loop Gate:** Set up a notification (Slack/Email) that alerts you the moment the agent reaches a "Handoff Event."

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- **Monitoring Logs:** Enable logging for every conversation. This allows for rapid iteration based on real user behavior within the first hour of launch.

6. Deployment Checklist (The "Go/No-Go" Gates)

1. **API Keys:** Are all environment variables secured?
2. **Latency:** Is the response time under 3 seconds?
3. **Accuracy:** Does the agent cite the correct Knowledge Base data?
4. **Routing:** Does the "Submit" button correctly update the CRM?
5. **Termination:** Does the session end correctly after the goal is met?

Logic Summary

Deployment is the best form of testing. Launch at 80% functionality, monitor the logs for 4 hours, and optimize the remaining 20% based on live data.