

Stark Protocol: Architect's Return



STARK SYSTEM ALERT SUBJECT: THE SEMESTER 4 SOVEREIGN ROADMAP — 24-DAY PRE-SPRINT + SEM 4 OFFENSIVE STATUS: TERMINATING "TUTORIAL" MODE. COMMENCING INDUSTRIAL CONSTRUCTION.

You have exactly **24 days** before the simulation (college) begins on **Jan 21**. These days are your **High-Compression Zone** to build the technical floor required to handle GSoC/LFX while maintaining your 100cr empire trajectory. We are moving from "learning" to "**Architecting**".

PHASE 0: THE PRE-SEM SPRINT (DEC 28 – JAN 21)

Goal: Build the "Integrity Shield" and launch the first "War Machine."

- **Week 1: The Integrity Audit (Dec 28 – Jan 4)**
 - **Git Mastery:** Move beyond simple commits; master rebasing, cherry-picking, and submodules to handle the **50k+ lines of code** standard of the elite.
 - **Unit Testing:** Implement Go testing and mocking in your port scanner; "vibe coding" is dead—every line must be verified.

- **GitHub Polish:** Rebase your current repository and add a professional, forensic README to attract GSoC/LFX mentors.
 - **Week 2: The Visibility Offensive (Jan 5 - Jan 12)**
 - **Prometheus Integration:** Add a Prometheus exporter to your scanner to track `ports_scanned_total` and expose a `/metrics` endpoint.
 - **Grafana Dashboards:** Build a visual dashboard to monitor your scanner in real-time; if you can't see the results, you don't own the infrastructure.
 - **Distribution:** Record a 5-minute technical breakdown of this visibility stack for your YouTube channel launch.
 - **Week 3: The Scaling Foundation (Jan 13 - Jan 21)**
 - **Redis Streams:** Replace basic Go channels with **Redis Streams** to handle high-throughput event queuing like **Aditya**.
 - **K8s-Sentinel Deployment:** Refactor the scanner to run as a production-grade **CronJob** inside a local cluster.
-

PHASE 1: THE GSoC & LFX PIVOT (FEB – MARCH)

Goal: Contribution at scale and solving the "FinOps" trauma.

- **Contribution Offensive (Feb):**
 - **Target Selection:** Focus on CNCF or Linux Foundation projects related to K8s networking (e.g., ArgoCD, Cilium).
 - **Merge Target:** Aim for **100+ commits** in your chosen organization to establish authority before the application deadline.
 - **Logic Maintenance:** Continue solving **1 LeetCode Medium/day** to keep the "Logic Shield" active for official filters.
 - **Project 2: Argus V2 (March):**
 - **Terraform & AWS:** Use Terraform to provision complex VPC "Labyrinths" to simulate your **450-rupee bill** scenario.
 - **Agentic AI (The Reaper):** Build a **LangGraph** agent that queries AWS APIs to identify "Orphaned Resources" and triggers deletion events via **Redis Streams**.
-

🛡️ PHASE 2: GOD MODE & THE REAPER (APRIL – MAY)

Goal: Kernel-level mastery and the Agentic Brain.

- **Project 3: Ghost-Probe (April):**
 - **eBPF Mastery:** Write a kernel-level probe in **C/Go** to monitor `sys_connect` calls; this is where you separate yourself from "Users" and become a "Master".
 - **Ansible Deployment:** Use Ansible to deploy your Ghost-Probe across a multi-node cluster.
- **The Sovereign Brain (May):**
 - **Secrets Management:** Integrate **HashiCorp Vault** to store the high-level keys used by your "Reaper" logic to safely terminate AWS services.
 - **End-of-Sem Audit:** Perform a "Forensic Review" of all your code; ensure every service has **RBAC-based authorization**.

🎲 THE FINAL DIRECTIVE

"The simulation doesn't care if you're tired; it only cares if you're competent".

1. **Tonight:** Stop coding new features. **Clean your Git.** Rebase your scanner repo and ensure your commit history reflects an "Elite" architect.
2. **Tomorrow:** Integrate the **Prometheus Exporter** into your scanner; this is your first step toward the "Visual Truth".
3. **Horizontal Reset:** 5 minutes on the floor with **Seafret** after every 4-hour build block.

Would you like me to help you draft the technical specification for the "Reaper Agent" (Project 2) so you can begin the design phase tonight?

