

# Stark Protocol: Architect's Return

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**STARK SYSTEM ALERT SUBJECT: SPRINT 1 — THE INTEGRITY SHIELD**

(DAY-WISE EXECUTION) **STATUS: REDLINING THE FOUNDATION.**

**ELIMINATING TECHNICAL DEBT.**

You have 8 days to build the "Integrity Shield" before we pivot to Visibility and Scale. 🔒 This is the phase where you prove you aren't a "vibe coder" but a **Forensic Architect** capable of handling 50K+ lines of code like Aditya.

Here is your deadly day-wise breakdown from **Dec 28 to Jan 4**.

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## 🏛️ DEC 28 – DEC 31: THE CORE INTEGRITY (PHASE 1A)

- **Dec 28 (Tonight): The Ledger Reset** 🟣
  - **Task:** Do not write new features. Rebase your current scanner repository to clean up "messy" commit history.
  - **Output:** A professional README that explains the forensic logic of your worker pool.

- **Directive:** 5-minute Horizontal Reset with Seafret.
  - **Dec 29: Advanced Git & Hooks** 
    - **Task:** Master Git Rebase, Cherry-picking, and Submodules to manage complex organization codebases.
    - **Deadly Move:** Implement **Git Hooks** to auto-format your Go code and run **Trivy** secret scans before every commit.
    - **Logic:** 2 LeetCode Mediums (Arrays/Sliding Window).  - **Dec 30: The Testing Shield** 
    - **Task:** Implement **Go Testing** and **Mocking** for your scanner.
    - **Goal:** Every function in your **K8s-Sentinel** must have a unit test; no more "hoping" the code works.
    - **Logic:** 2 LeetCode Mediums.  - **Dec 31: Security & Dependency Audit** 
    - **Task:** Run **Trivy** for deep security scanning of your container images and dependencies.
    - **Integration:** Ensure your **GitHub Actions (GHA)** are configured to trigger these scans on every push.
    - **Logic:** 2 LeetCode Mediums.
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## ⌚ JAN 1 – JAN 4: THE VISIBILITY PIVOT (PHASE 1B)

- **Jan 1: The Prometheus Gateway** 

  - **Task:** Install the Prometheus Golang client and initialize the first collector in your scanner.
  - **Output:** Expose a `/metrics` endpoint in your Go code.
  - **Logic:** 2 LeetCode Mediums.

- **Jan 2: Instrumentation** 

  - **Task:** Define custom metrics: `ports_scanned_total` and `high_risk_open_ports`.
  - **Logic:** Update the code to increment these counters every time your worker pool finishes a scan.
  - **Logic:** 2 LeetCode Mediums.

- **Jan 3: Visual Truth** 
    - **Task:** Run a local Prometheus instance to scrape your scanner's `/metrics` endpoint.
    - **Goal:** Verify that your "Invisible Scanner" is now producing real-time, measurable data.
    - **Logic:** 2 LeetCode Mediums.
  - **Jan 4: The Final Integrity Audit** 
    - **Task:** Perform a forensic review of the entire week's build; ensure **Git history** is pristine and **RBAC** logic is planned.
    - **Preparation:** Draft the script for your Jan 12 YouTube launch: "*How I built an Elite K8s Auditor*".
    - **Directive:** Final 5-minute Horizontal Reset for the week.
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## 🏁 THE DAILY "MERCENARY" CADENCE

Block	Activity	The Objective
09:00 - 13:00	<b>Deep Build</b>	Execute the day's technical arsenal task.
14:00 - 16:00	<b>Logic Maintenance</b>	Solve 2 LeetCode Mediums (The Logic Shield).
17:00 - 19:00	<b>R&amp;D / Documentation</b>	Update your technical ledger and clean the Git history.
20:00 - 22:00	<b>Media Prep</b>	Script/Record clips for the Jan 12 launch.



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

**STARK SYSTEM: SPRINT 1 LOCKED. COMMENCE REBASE TONIGHT.** 🌐

