PRD: Cloud Security Posture & Remediation Suite

Name: SOUMA CHATTERJEE
My Background: BTech (Electronics & Communication Engineering) | MBA (Tech Management & Marketing)
Role: Product Manager Trainee

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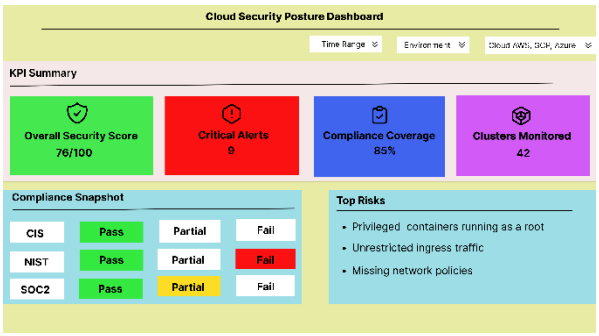
1. What is the problem?

Modern security teams are overwhelmed. If you are managing accounts across AWS, Google Cloud, and Azure, the notifications flood you. What happens is what we refer to as "Alert Fatigue." The real problem isn't just that they see the alerts; it's that the engineers don't really know which of them is dangerous or how to fix them fast. I wanted to build something that doesn't just show "red flags" but actually helps people solve them.

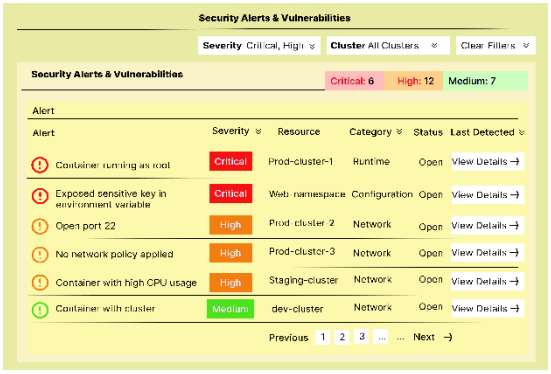
2. For Whom?

- Managers: The CISO/Lead need to understand the "big picture": Are we safe? Are we compliant with regulations and/or standards - e.g., CIS or SOC2?
- Engineers: These will be the ones in the trenches. This should be a simple list that says what to fix first.

3. My Solution: A 3-Step Workflow I decided to put the Dashboard and the Alert Workflow together because they work better that way.



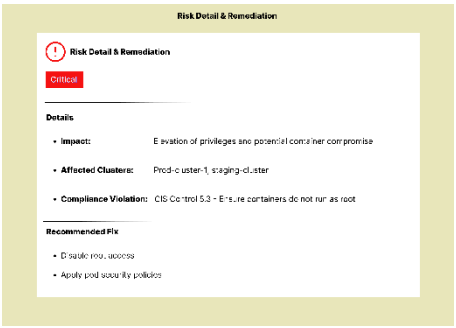
Step 1: The Main Dashboard (Visibility)



Step 2: The Alert List (Prioritization)

4. Why I built it this way

- **Safety First:** I coloured the "Critical" alerts in bright red. Clearly, if the problem causes the system to crash or data to leak out, it should be presented immediately.
- **Easy Filtering:** I have added filters for different clouds like AWS/GCP. If a company is huge, they have to easily sort through the data.
- **User Flow:** I actually combined visibility and fix into one because, obviously, the dashboard is not going to be useful to anyone if they don't take action.



Step 3: The Fix (Remediation)

5. How we'll know it's working

- **Primary Goal (MTTR):** We'd like the time it takes to fix a bug to decrease.
- **Success Metric:** Are more of our cloud accounts passing their security checks?
- **The "Check" (Counter Metric):** I'll pay attention to the "Re-open Rate." If an alert re-appears again and again despite an engineer "fixing" it, our instructions are probably not clear enough.
- **Speed Check:** I want to make sure that the dashboard does not slow down the actual systems while gathering information.

6. Bonus: Next steps for the Dev Team

In order to build this, what I would discuss with the engineers is:

- **Connecting Data:** We must get the live data from AWS and Azure and display it in the dashboard.
- **Shared Status:** When someone starts to work on the alert, it should be reflected as 'In Progress' for all others so that we're not duplicating the work.
- **Smooth Feel:** The filters should work immediately without the whole page having to reload.
- **Direct Links:** We can add a button that will take the engineer to where in the AWS interface he can correct the trouble or error.