



## POST INCIDENT ANALYSIS: 5 WHYS

**Incident:** Samba usermap\_script exploit attempt detected on host 192.168.1.36.

### 1. Why did the exploit succeed in reaching the host?

Because the target host had SMB services exposed without proper segmentation or access restrictions.

### 2. Why were SMB services exposed without restrictions?

Because legacy Samba scripts were enabled, and network policies did not limit SMB traffic to trusted hosts.

### 3. Why were legacy scripts enabled and traffic unrestricted?

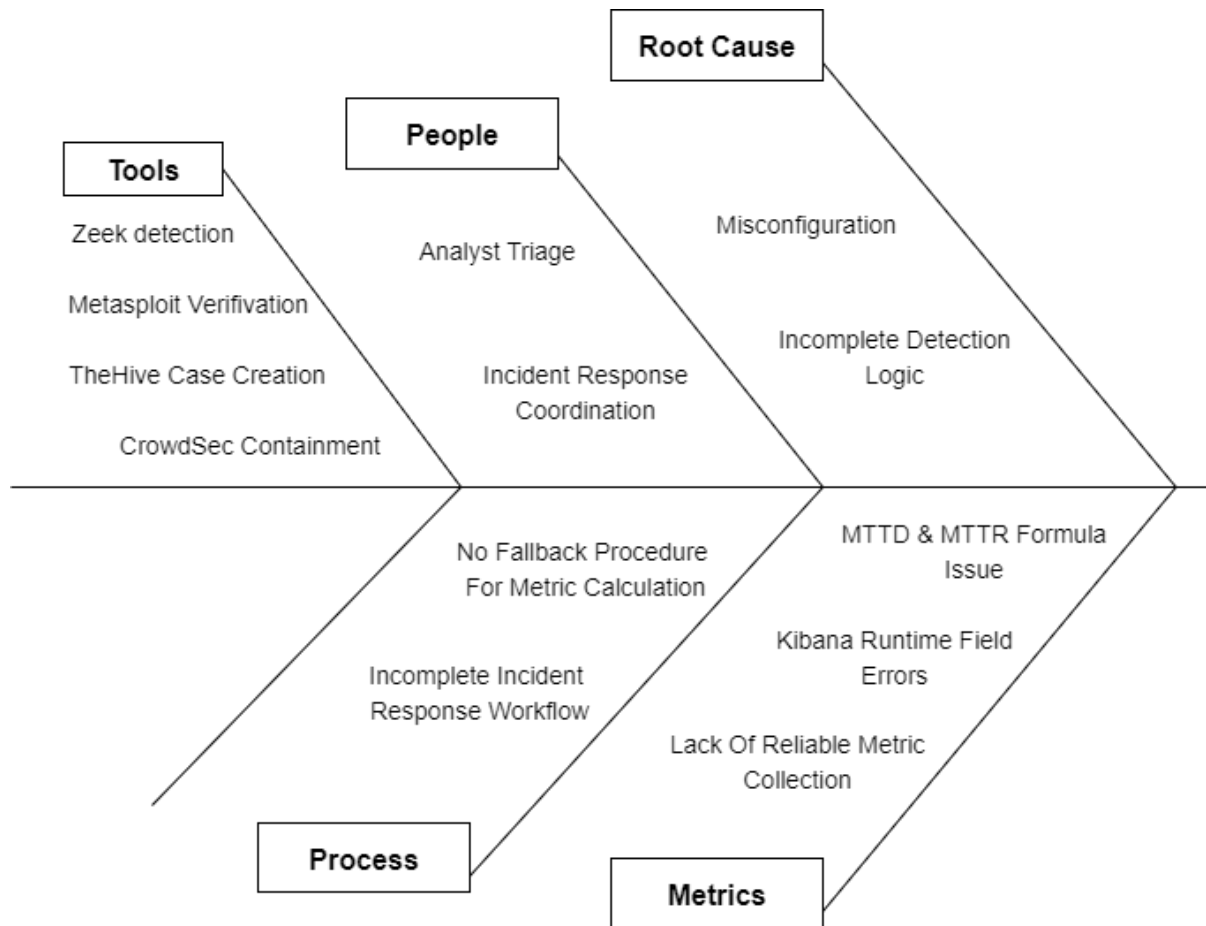
Because system hardening and patch management processes were incomplete, leaving unnecessary services active.

### 4. Why were patch management and hardening processes incomplete?

Because there was no automated vulnerability monitoring and enforcement mechanism in place for SMB services.

### 5. Why was there no automated monitoring and enforcement?

Because the organization had not yet fully integrated network monitoring (Zeek), alerting (TheHive), and automated containment (CrowdSec) into a unified security operations workflow.



1: Fishbone Diagram

## Root Cause Summary:

The Samba backdoor exploit was enabled by exposed legacy SMB functionality and incomplete system hardening, compounded by the lack of integrated monitoring and automated containment mechanisms.

## Recommendation:

- Disable unnecessary legacy scripts and services.
- Implement network segmentation for SMB hosts.
- Automate patch management and vulnerability scanning.
- Integrate Zeek, TheHive, and CrowdSec to detect, alert, and contain similar exploits in real time.