How to Build a SOC in Reality

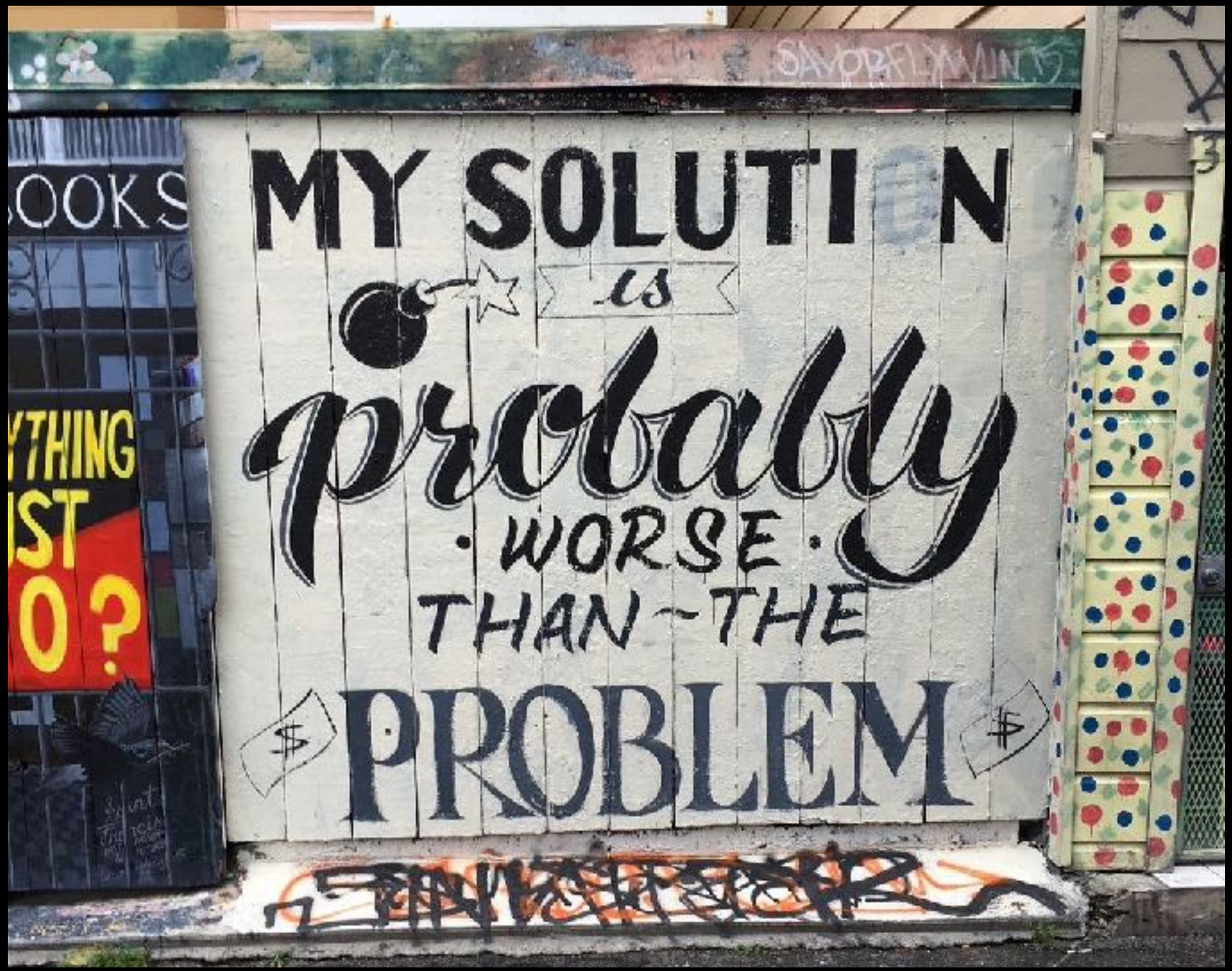
Who Am I

Lauren, GCIH, GMON, CISSP, SOCaaS @lil_lost

- Lots of acronyms
- 15+ yrs IT and Security experience
- Builder of Programs
- Corgi herder
- Unicorn
- Super Power: Ability to manage 3 levels up at all times


HOPE YOU'LL STRIKE IT LUCKY!

WHY?!



It’s All Too Much
WHAT DO YOU DO

So you wanna build a SOC

Everyone will tell you how

- https://www.mitre.org/publications/all/ten-strategies-of-a-world-class-cybersecurity-operations-center
- https://cybersecurity.att.com/resource-center/ebook/how-to-build-a-security-operations-center
- https://logrhythm.com/blog/7-steps-to-build-your-security-operations-center/
- https://blog.rapid7.com/2016/06/07/how-to-structure-a-security-operations-center/
- https://www.exabeam.com/security-operations-center/how-to-build-a-modern-soc/

So you wanna build a SOC

Everyone will tell you how

- Designing and Building a Security Operation Center by David Nathans

- Crafting the Infosec Playbook by Jeff Bollinger, Brandon Enright and Matthew Valites

- Security Operations Center: Building Operating and Maintaining your SOC by Joseph Muniz, Gary McIntyre and Nadhem Al Fardan

- Defensive Security Handbook by Lee Brotherson and Amanda Berlin

Have a Mission

Have a Mission

What do we do?

Whom do we serve?

How do we serve them?

https://www.clearvoice.com/blog/difference-between-mission-vision-statement-examples/

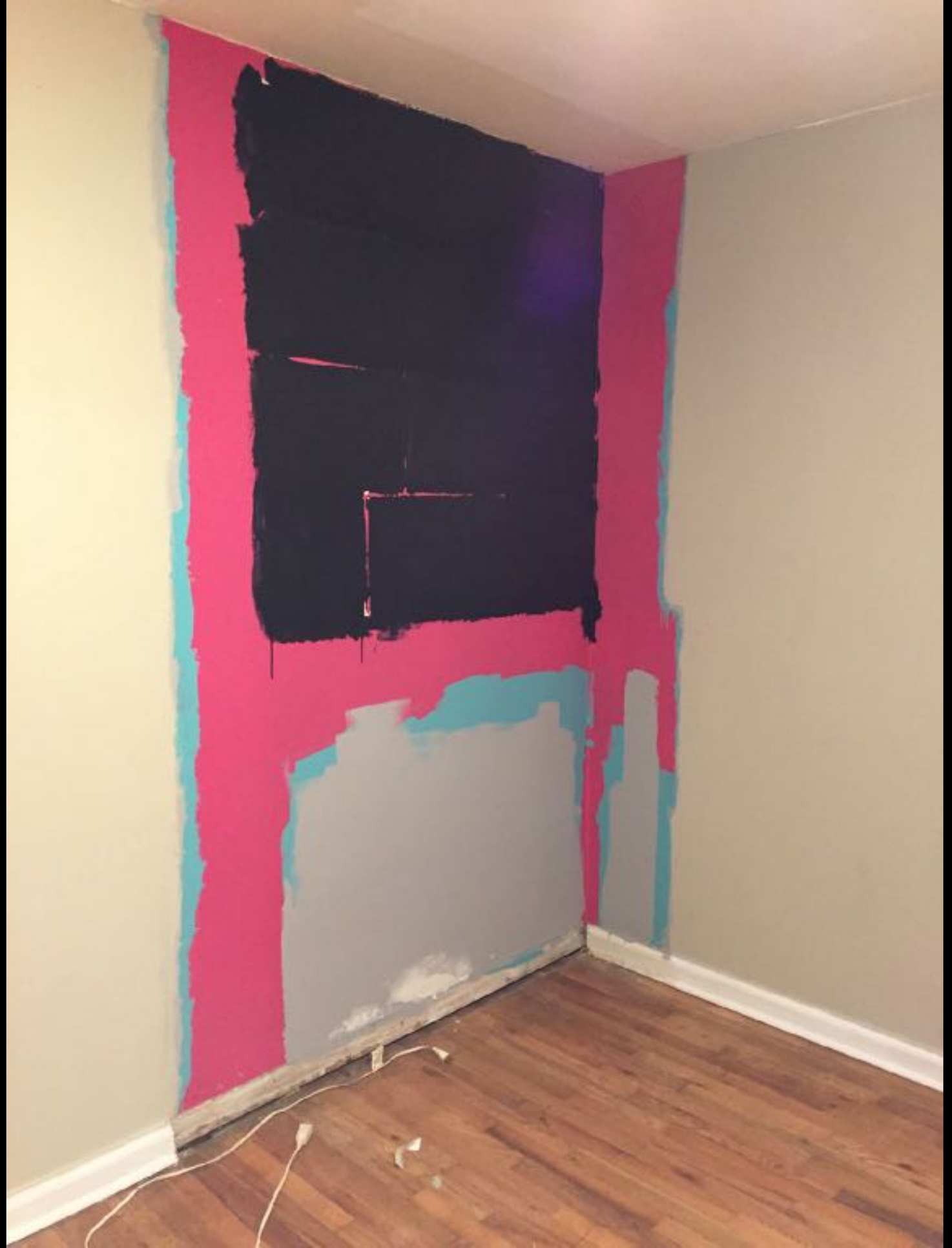
What a Mission Looks Like

What level of response will you provide?
Is this a function of the SOC?
Or are there other security teams?
What will you outsource?

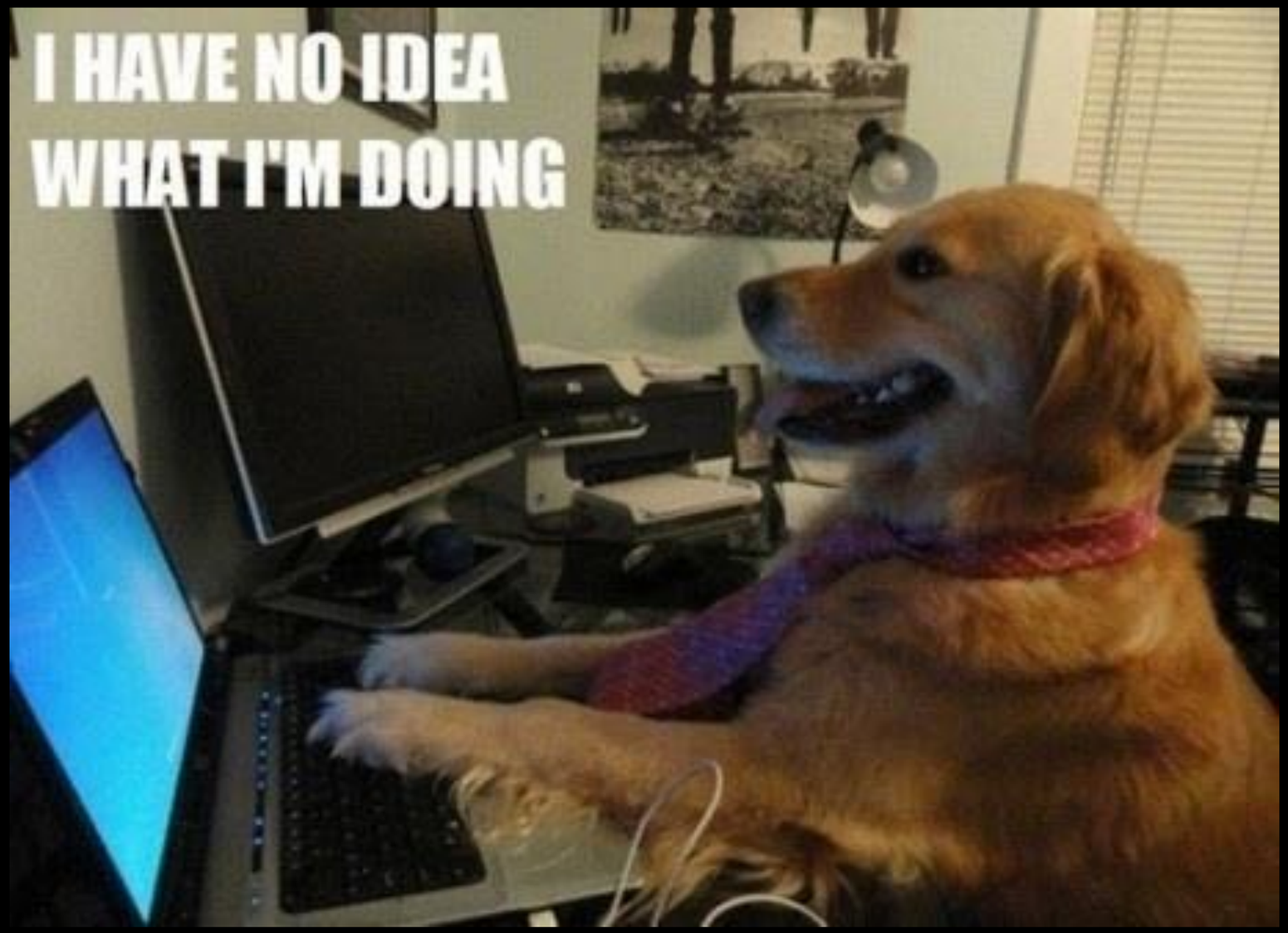
Inventory

Ways to find the ugly

- NMAP
- Rumble.Run
- SCCM (or other remote mgmt tool)
- Hypervisor reports
- Network Maps



Now Organize it



Can you find the Crown Jewels?

Hire People

8 hours left or until sold out

HOLIDAY RETURNS ?

Bunker of Clowns

$3.00

turn that frown: upside down

Quantity: 1

add to cart

SOLD OUT

Hire People

Hire People

All the Processes

WRITE IT DOWN!!!!

Tools

Tools

- Knowledge Management (AKA Wiki)
- Ticketing System (hopefully not email)
- Log Management (or you will hate life)
- Inventory (hopefully someone else problem)
- Vulnerability Management (If its in your mission)
- All the IR & other tools (based on your mission)

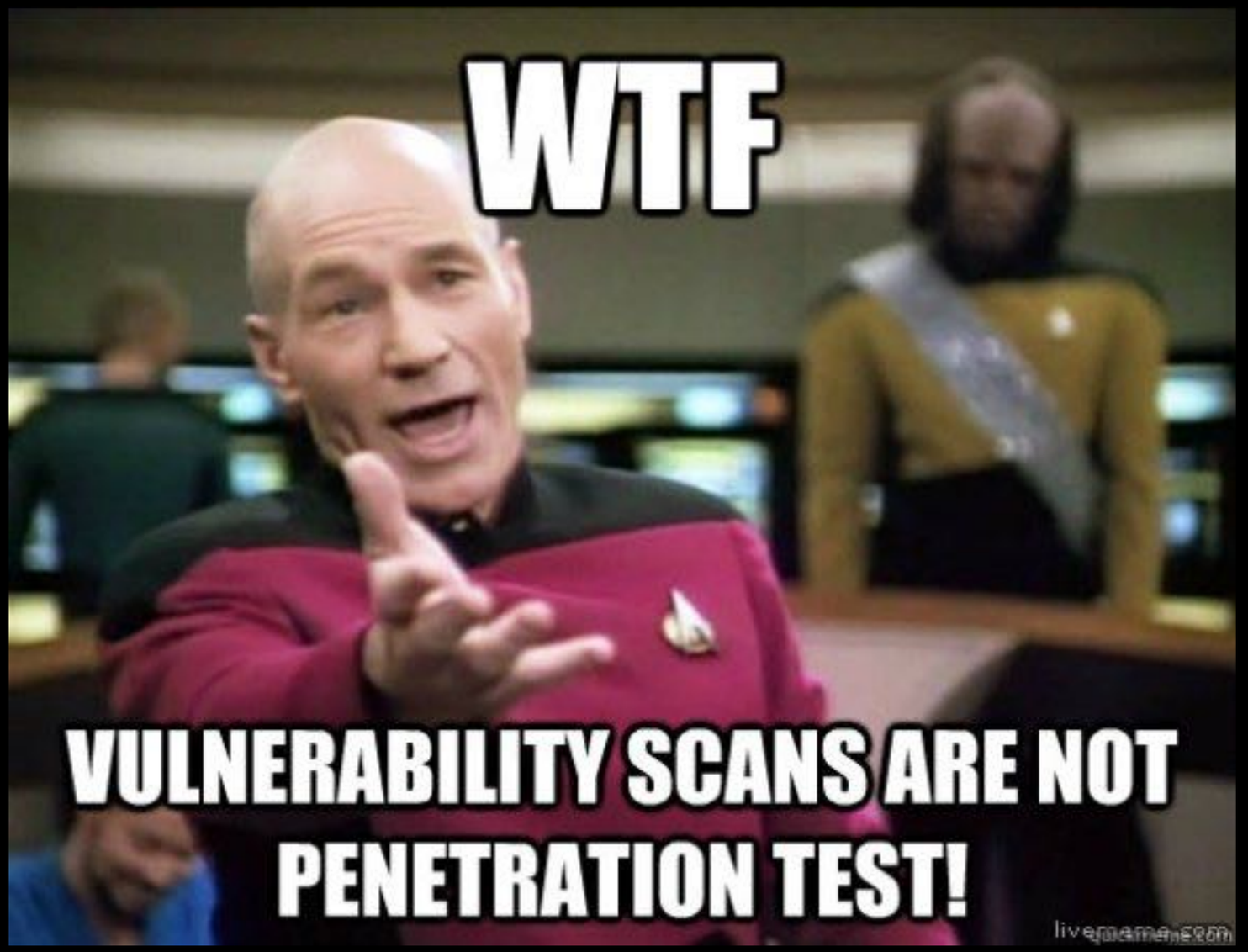
Knowledge Management

Ticketing System

Log Management

Inventory

Vulnerability Management



MOAR TOOLZ!

GRR (Google Rapid Response)
Redline
Volatility
The HIVE
Powershell
OS Query
Any.Run
Virus Total
Zeke
OSSEC
sysmon

Memorize
Rekall
Wireshark
Cuckoo
Joe Sandbox
Demisto
strings
Moloch
Cyphon
Threat Crowd
Resource Hacker


SOC TEAM
ASSEMBLE