

# When a Plan Comes Together: Building a SOC "A-Team"

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# WHY

# ME



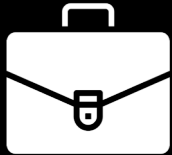
- 19 years in secops
- Co-founder, Bionic
- Former White House, DoE, Raytheon, MSSP, MDR
- SANS SEC450 and MGT551 Instructor
- 80s kid

# WHY THIS TALK



- People will make or break your security team
- Good ones are hard to find/train/keep
- Traditional ops model is not optimized to engage the best people

# IF YOU HAVE A PROBLEM (SOC IS HARD)...



Lack of  
business  
alignment



Data and tools  
(too many, not  
enough)



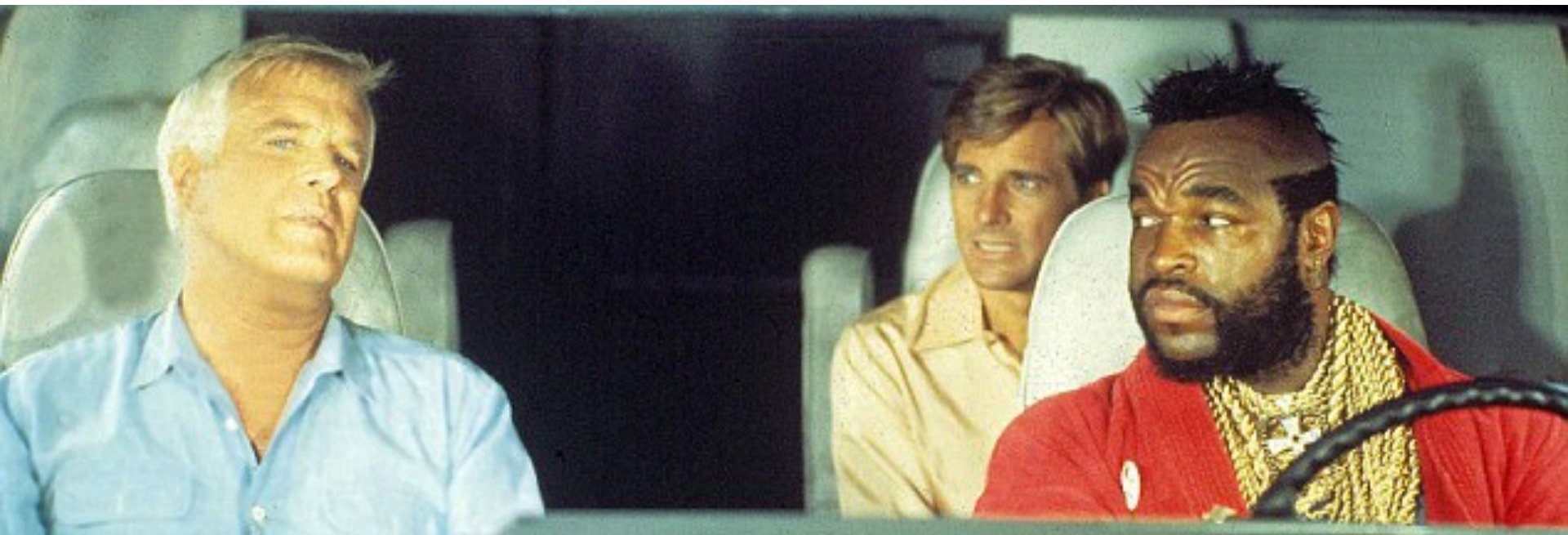
Outdated  
“alert  
watcher”  
model



Sustainment  
mentality

**...AND IF NO ONE ELSE CAN  
HELP...**

Is there really a talent shortage?



# MAYBE YOU CAN HIRE THE A-TEAM

Focus on:

- Build zealots, not mercenaries\*
- Empowerment, purpose, and teamwork
- Ongoing coaching
- Readiness to prove yourself over and over



# GETTING STARTED



1. Building the A-Team
2. Experimentation and iteration
3. Ongoing management
4. Showing results (METRICS)
5. Ensuring the plan comes together

# BUILDING THE TEAM

## Talent-centric AKA “Rock Star” Model

More capability near-term

Capacity is limited

Bias and turnover a bigger problem

## Mission-centric Model

Aligned to organization

Sometimes less flexible

Risk of “missing the forest for the trees”



# WHAT TO LOOK FOR

## Good Signs

- Curiosity
- Motivation
- Persistence/grit
- Positive attitude
- Critical thinking
- Situational awareness
- Diverse background

## Bad Signs

- Misrepresentation
- Ego
- Bluffing
- Disparaging former employers and teammates
- Over-reliance on credentials



# BUILDING THE TEAM

- Probing for technical depth, from SANS MGT551:
  - Open-ended, situational questions
  - Questions across multiple domains that get harder
  - Allow candidate to display technical depth without undue pressure, see what happens when they don't have the answers
- Avoid bias, questions that are easy to predict, irrelevant “puzzle” questions

# TRAINING



- ✓ Technical analysis
- ✓ Search syntax
- ✓ Tool usage
- ✓ SOPs
- ✓ Documentation

- ✓ How to think
- ✓ How to communicate
- ✓ Investigative theory
- ✓ Business implications of cyber security

Pro-tip: Combine formal and informal, on-the-job training!

# TRAINING

- Continuous learning model\*
  - Immediate + intermediate + transitional
- Collaborative problem solving
  - Pre-briefings for IR and hunts
  - Simulations and structured de-briefs
  - Direct, timely feedback

Pro tip: Train your own people and train them together!

# MOTIVATING & RETAINING

- ✓ No competition zone
- ✓ Task shifting (hero proofing)
- ✓ Celebrate small wins
- ✓ Watch for burnout
- ✓ Keep the team happy\*
  - ✓ Autonomy
  - ✓ Mastery
  - ✓ Purpose

\*From Drive by Daniel Pink



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# MEASURING SUCCESS



- Show ROI
- Validate “normal” operations
- Demonstrate progress towards objectives
- Highlight areas for improvement
- In the SOC, focus is on ops and improvements

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# MEASURING SUCCESS



- Enter KPIs and OKRs
- KPIs instrument your operation
- OKRs tie ops to strategy
- Constantly re-evaluate both
- Make sure you control levers that move both

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# METRICS THAT MATTER

- KPIs:
  - Key area + target value/threshold
  - Tells us if we're maintaining status quo
- OKRs:
  - Strategic goal + results that get us there
  - Measures advancements and initiatives
- OKRs can be used to bring KPIs into desired range
  - “Get time to respond down to x”



# MEASURING PEOPLE

- Clear expectations aligned to team goals
- Feedback to inform, not penalize
- Honest, direct feedback via one-on-ones
- Set them up for their success – not



# CHALLENGES

## “Collaboration chillers”\*

1. Failure to share information
2. Failure to initiate collaboration
3. Failure to adapt
4. Poor communications practices
5. Lack of trust
6. Lack of knowledge about team member expertise
7. Interpersonal conflict

*\*Improving Social Maturity of Cybersecurity Incident Response Teams*, DHS, GMU, et. al.

# CHALLENGES

SKUE: shared knowledge of unique expertise

- Shared knowledge of “who knows what”
- Quickens IR process
- Requires:
  - knowledge tools
  - cross-training
  - after action reviews

# CHALLENGES

- Inward focus
- Role-oriented bias
- Conflict and lack of trust
- Sustainment mentality
- Lack of empowerment

# WHAT YOU CAN DO

- Foster interaction & social connections
- Set clear goals, roles, standards
- Exemplify communication norms
- Create a safe space for failure and learning
- Push the team out of their comfort zone\*

\* Just not too far, and not all the time

# CASE STUDY:

4/7 Executive Branch SO



## Challenges:

- Brand new SOC
- Small budget
- Team and tools pre-selected
- Highly technical customer
- Organization in flux

# CASE STUDY:

4/7 Executive Branch SO



## Approach:

- Mission-focused team
- Focus on story telling while making measurable progress on reducing risk
- Find ways to be “smarter” than the customer to keep them engaged
- Take advantage of unique environment & opportunities to keep team engaged

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# **CASE STUDY:**

## **MDR Service Offering**



### Challenges:

- Clear goals but few processes
- New, untested team
- Lack of quality checks, performance standards, team structure



# **CASE STUDY:**

## **MDR Service Offering**



### Approach:

- Talent-focused team
- Start small and iterate
- Lots of team building
- Strong supporting functions: R&D, project management
- Build generative environment that encouraged experimentation and new ideas

# WHEN A PLAN COMES TOGETHER

Talent can be  
found lots of  
different places  
– know how to  
identify and  
foster it



# WHEN A PLAN COMES TOGETHER

Difference  
between an A-  
Team and “the  
other team” is  
how well the  
team works  
together towards  
common goals



# OTHER RESOURCES

- SANS SEC450: Blue Team Fundamentals
- SANS MGT 551: Building & Leading SOC's
- Five Ways to Cut Costs in Your SOC:  
<https://www.sans.org/webcasts/ways-cut-costs-soc-113275>
- Blueprint Security Podcast:  
<https://www.sans.org/blueprint-podcast>
- Bionic Cyber blog:  
<https://www.bionicyber.com/blog>
- Many more free resources:  
<https://www.sans.org/free>

# HOMework

1. Schedule one-on-ones
2. Ask everyone on your team discuss the SOC charter and what exactly they are protecting
3. Look for ways to remove barriers to communications and teamwork
4. Conduct a pre-briefing
5. **POP QUIZ**: Is your team talent-centric or mission-centric?



**LET'S KEEP IN TOUCH**  
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