



WHEN A PLAN COMES TOGETHER: BUILDING A SOC A-TEAM

By Mark Orlando

ABOUT ME

- 17 years in secops
- Public & private sector
- 80s kid
- @markaorlando

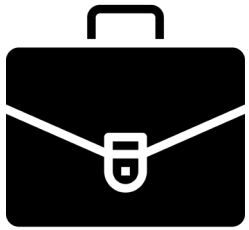


ABOUT THIS TALK

- Foundation of a security team is people
- Good ones are hard to find/train/keep
- Time to hack the traditional SOC model



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Outdated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?



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MAYBE YOU CAN HIRE THE A-TEAM

- How do you create value?
- Direction, purpose, and teamwork
- Competent coaching
- Readiness to prove yourself



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GETTING STARTED

1. Study the business/mission
2. Experiment and iterate
3. "Servant" leadership
4. Show results (METRICS)
5. Always have a plan

BUILDING THE TEAM

A close-up portrait of a Black man with a mohawk hairstyle, wearing a gold chain and a gold watch. He is looking slightly to the side with a serious expression.

**OPTION 1:
TALENT-CENTRIC
MODEL**

A group of four people, including a woman, a man in a cap, an older man in a white lab coat, and a Black man in a military-style uniform, standing together outdoors.

**OPTION 2:
MISSION-CENTRIC
MODEL**

BUILDING THE TEAM

**MORE CAPABILITY
NEAR-TERM**

**CAPACITY IS
LIMITED**

**BIAS AND
TURNOVER A
BIGGER PROBLEM**

**BETTER ALIGNED TO
ORGANIZATION**

**SOMETIMES LESS
FLEXIBLE**

**RISK OF MISSING
THE FOREST FOR
THE TREES**

BUILDING THE TEAM



Attract

- ✓ Aptitude
- ✓ Attitude
- ✓ Desire
- ✓ Diversity

Avoid

- ✓ Over-reliance on experience or creds
- ✓ Egos
- ✓ Misrepresentation

BUILDING THE TEAM

- Talented junior staff
 - Requires long-term **investment**
 - Longer lead time*
 - Identifying aptitude is harder than tech skill
- Try:
 - Plan pay adjustment in out years
 - Build in time for training, mentorship, and research
 - Long-term career development

*YMMV

BUILDING THE TEAM

- Talented senior staff
 - Higher cost*
 - Less flexibility*
 - Hyper specialization*
- Try:
 - Look elsewhere in the org
 - Find “fishing holes”
 - Watch out for bias

BUILDING THE TEAM

- Ask about:
 - Influences
 - Ways of working/being managed
 - Failures
- Look for:
 - Participation – clubs, events, projects
 - Well-informed opinions
 - **Referrals**
 - Technical evaluations

TRAINING

Easier to Teach

Harder to Teach

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

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

Start with your mission/business, then security, environment, etc.

MOTIVATING & RETAINING

- ✓ No competition zone
- ✓ Task shifting (hero proofing)
- ✓ Celebrate small wins
- ✓ Promote collaboration & creativity
- ✓ Align to core values
 - Speed? Accuracy?
 - Quality? Quantity?
 - Ingenuity?



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MEASURING SUCCESS: KPIS AND OKRS

- KPIs instrument your operation
- OKRs tie ops to strategy
- Constantly re-evaluate both
- How will training and mentorship drive improvement in these?

MEASURING SUCCESS: KPIS AND OKRS

- Sample KPIS:
 - Coverage/visibility
 - Control
- Sample OKRs:
 - Reduce successful social engineering attacks
 - Reduce identification and response time

MEASURING PEOPLE

- Inform, learn and mature – not penalize
- Avoid solely quantitative measures
- Prepare them for future success
- Prepare them to handle change

MEASURING PEOPLE

- Great resources:
 - Analyst “baseball card” by Chris Crowley:
[https://www.first.org/resources/papers/conf2019/Public SOC-Metrics-for-FIRST-v07-002-.pdf](https://www.first.org/resources/papers/conf2019/Public%20SOC-Metrics-for-FIRST-v07-002-.pdf) – productivity, quality, growth
 - Read blog post by Chris Sanders on Infosec Careers and Tours of Duty:
<https://chrissanders.org/2019/07/infosec-tour-of-duty/>

MEASURING PEOPLE

Analyst Baseball Card

Christopher Crowley	Name
Chris	Preferred first name
TwoGuns	Callsign
2015-11-17	Join Date
NSM Analyst - Senior	Current Role
1 year, 1 month	Time in Role
38	Alerts Triaged in last 30 days
91.40%	Percent True Positive Rate
82.70%	Response rate percent for customer escalation
19	Escalated cases handled in last 30 days
1:34	Mean time to close case
7	Number analytics created currently in production
28	Number detection modified currently in production
423	Total lines committed to SOC code repository in last 90 days
91.40%	Success rate of queries against SIEM in last 30 days
0:09	Median run time per query
0.23	Mean lexical structure similarity in queries run in last 30 days



WHEN A PLAN COMES TOGETHER

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

■ WHEN A PLAN COMES TOGETHER ■

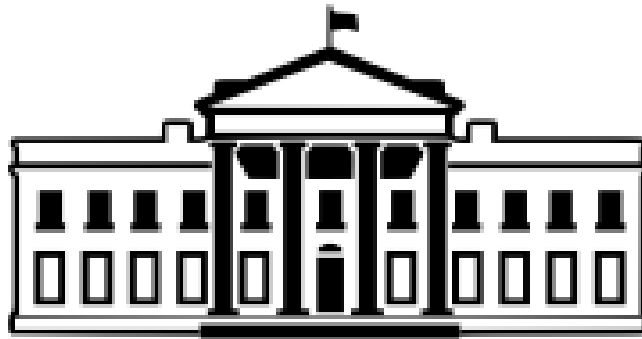
Difference between an A-Team and
“the other team” is cohesion and
measurable results*

CASE STUDY:

24/7 EXECUTIVE BRANCH SOC

Challenges:

- Small budget
- Customer just wants things to work



CASE STUDY:

24/7 EXECUTIVE BRANCH SOC

- Tell stories that interest customer
 - State-sponsored activity
 - Targeted VIPs
- A-Team = intel focus to tell the story, engineering to save them from themselves
- You must be “smarter” than your customer to keep them engaged

CASE STUDY: BUILD AN MDR

Challenges:

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



CASE STUDY: BUILD AN MDR

- Find good fishing holes, start small
- Strong supporting functions: R&D, project management
- A-Team = utility players, good communicators, strong support team, generative environment

OTHER RESOURCES

- SANS SEC450: Blue Team Fundamentals
- SOC Summit Presentation Archive:
<https://www.sans.org/cyber-security-summit/archives/cyber-defense>
- MITRE's "10 Strategies...":
<https://www.mitre.org/sites/default/files/publications/pr-13-1028-mitre-10-strategies-cyber-ops-center.pdf>

HOMEWORK

- How are you protecting/enabling business value?
- What are your core values and how does your team personify them?
- Analyst baseball cards



THANK YOU