

Overcoming Security Automation Roadblocks

Overcoming Myths, Determining Best Practices

About the Presenter

John Moran

- Sr. Product Manager, DFLabs
- IR Consultant
- Law Enforcement



An abstract network diagram consisting of several white circular nodes connected by thin white lines, forming a complex web-like structure. The background is a gradient of blue, transitioning from a lighter shade on the left to a darker shade on the right.

Automation Myths Obscure Reality



Myth: Automation means fewer jobs

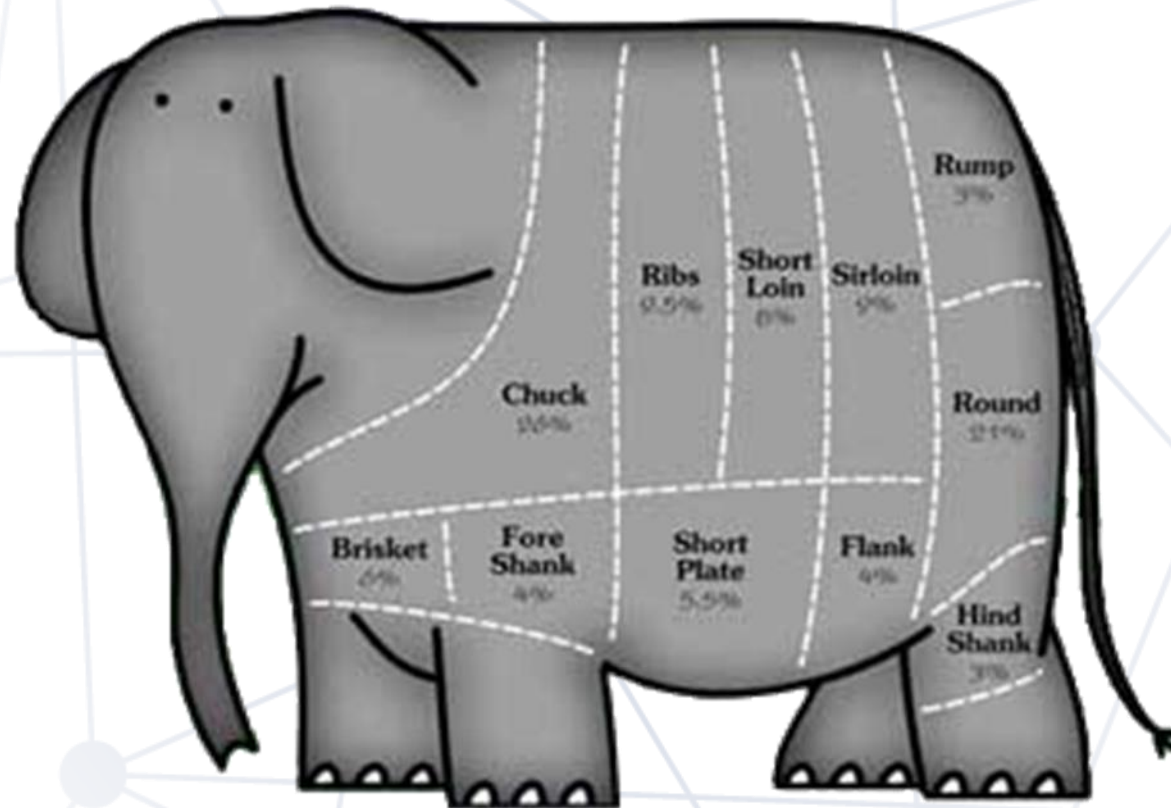
Automation should supplement, not replace

- Analysts are being inundated with alerts
- Too much time spent on mundane, repeatable tasks
- Automation should supplement, not replace
- Allow analysts to focus on tasks which require human intervention



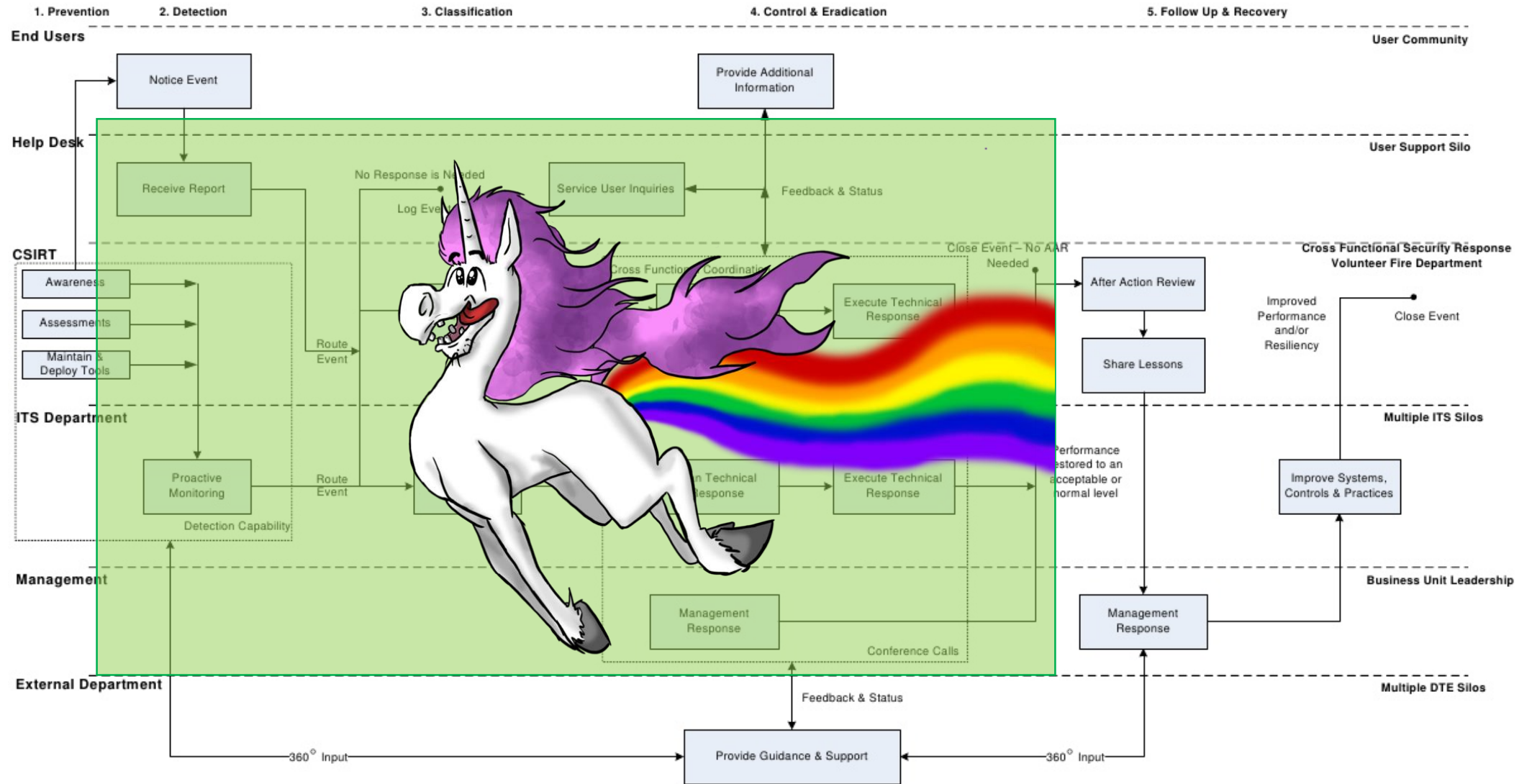
Myth: Security it too complex to automate

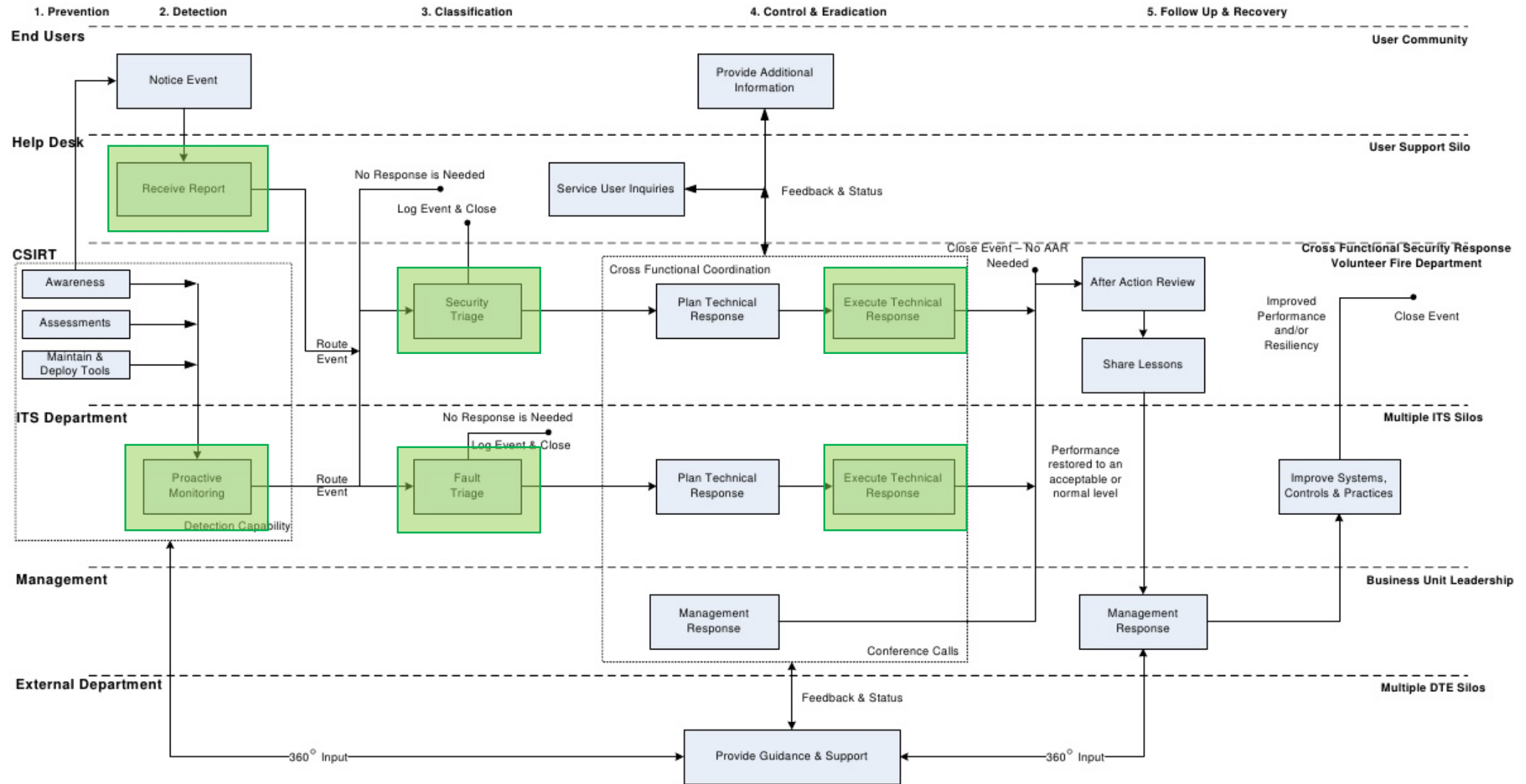
Start with small, manageable bites





Myth: Automation is dangerous







Best Practices = Best Results

Why Automate?

- Have measurable goals in mind:
 - Automate the repetitive, mundane tasks
 - Decrease time to respond to an incident
 - Act as a force multiplier for security teams
 - Respond in a documented, repeatable manner
 - Reduce risk

Identifying Processes to Automate

- Review all security processes and tools
 - Which tools can be easily automated?
 - Which processes are consistent and predictable?
 - Which processes are repetitive?
 - Which processes require little human intervention?
 - Which processes are taking too much time?

Getting Started

- Small, easy to automate processes
- Well documented, well understood processes
- Quickly and easily show value
- Build out from there...

Human are not the Enemy!

- The goal is *NOT* to remove humans from the process
- Automation and analysts should complement each other
- Include human interaction at critical junctions or decisions



Common Use Cases

Phishing Email

✓ Query threat data for:

- Embedded links
- Sender email
- IPs in header

✓ Scan email attachments

✓ Scan embedded URLs

✓ Check for other instances

✓ Quarantine email

✓ Notify users

Proxy Alert - URL

- ✓ Query threat data
- ✓ WHOIS queries
- ✓ Get domain info
- ✓ Access URL via Sandbox
- ✓ Get A records
- ✓ Query Proxy or SIEM logs
- ✓ Geolocate IPs
- ✓ Block domain

IDS Alert

- ✓ Query threat data
- ✓ Traceroute
- ✓ Geolocate IPs
- ✓ Query Proxy or SIEM logs
- ✓ Reverse DNS
- ✓ Simulate network traffic
- ✓ WHOIS queries
- ✓ Block IP



Questions?



Thanks!



John Moran
Senior Product Manager, DFLabs
john.moran@dflabs.com