From 30 Minutes To 40 Seconds: Applying Adaptive Response To Automate Human **Event Triage With Splunk ES & Phantom** Oliver Friedrichs CEO & Founder, Phantom John Stoner Segurity Strategist Splunk .conf2016

#### Disclaimer

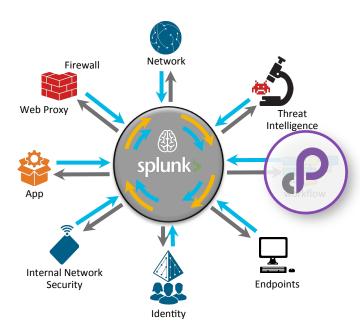
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### Session Agenda

- Review of Adaptive Response
- Splunk/Phantom Key Concepts
- Demos: Splunk ES/Phantom
- Customer Case Studies

### Adaptive Response Framework







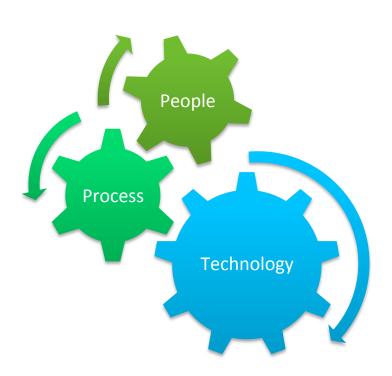
### Why Security Orchestration Matters

- Market leading MSSP
- Home grown correlation engine Our version of a SIEM
- Hundreds of customers
- Scalable process
- Custom tools for the analyst to make a decision
  - IP history across organization and business sector
  - Threat Intelligence Portal for global threat landscape reference
  - Ticketing system
  - Call tree to notify on alerts
  - Device uptime/outages for engineering
- Some events could be auto-commented and handled
  - Which events?
  - How would they be handled?
- But does one size fit all?

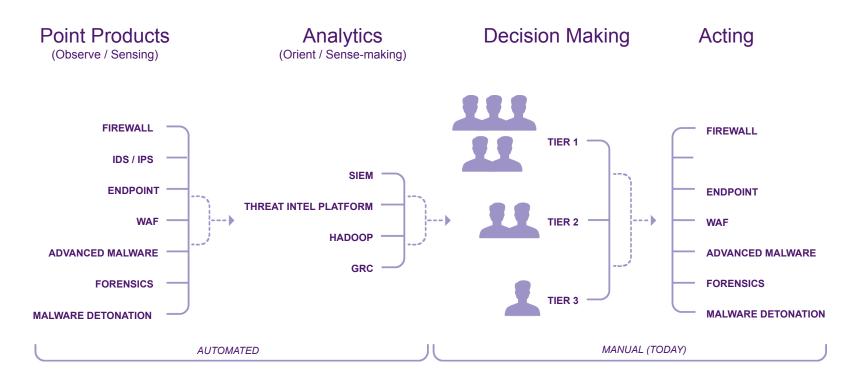


#### Fast Forward 10 Years Or So....

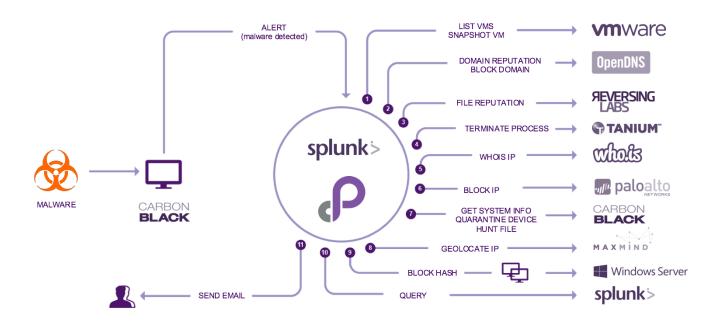
- Continual, pervasive attacks
- Not dealing with a single attack where the firewall and the IDS see the attack and dutifully return an alert
- Attacks can occur from anywhere and can be asynchronous
- Need to detect and contain is critical until eradication and remediation can take place
- Limited pool of security talent
- Limitless attack surface
- Time to detect is too long
- Costs continue to increase
- Security product sprawl
- How do we handle large amounts of attacks in a scalable, repeatable manner?



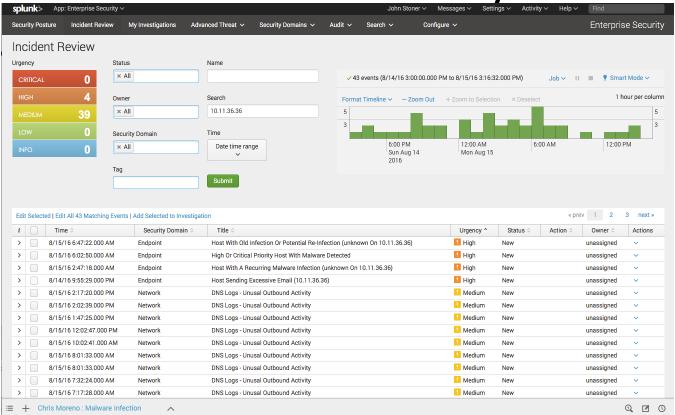
### **Automating Security Operations**



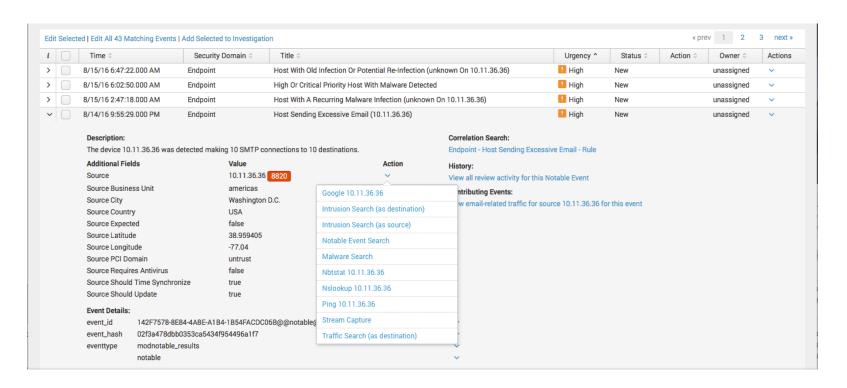
### Phantom & Adaptive Response Initiative



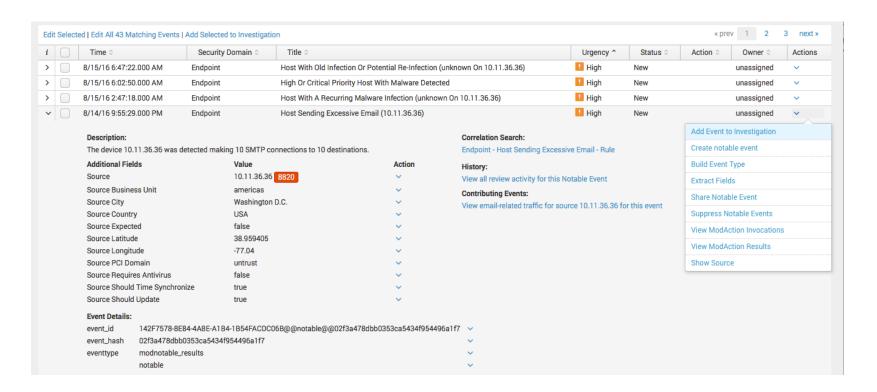
### Incident Review – Analyst Queue



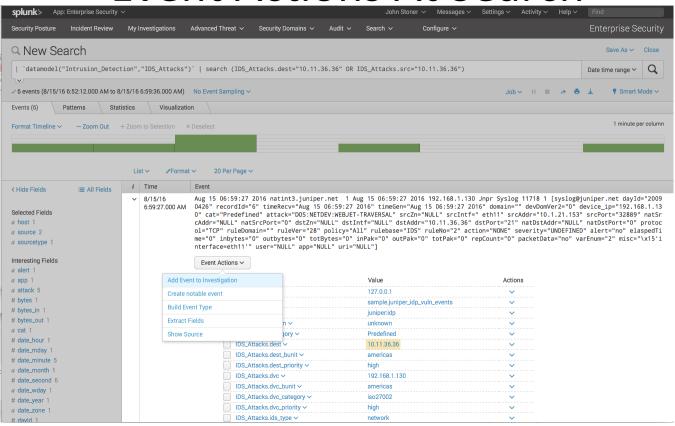
#### Notable Events and Field Actions



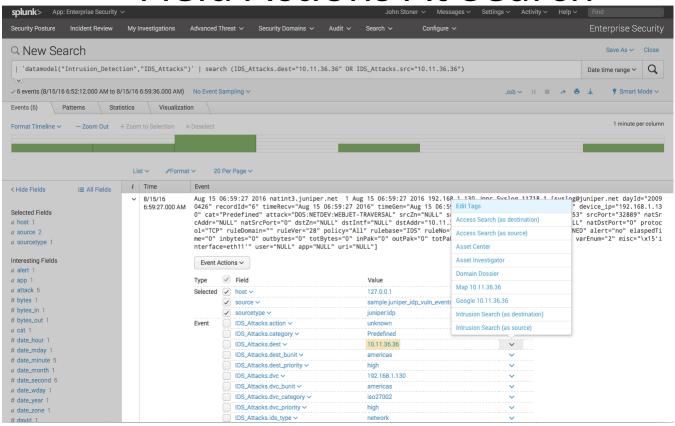
#### **Notable Event Actions**



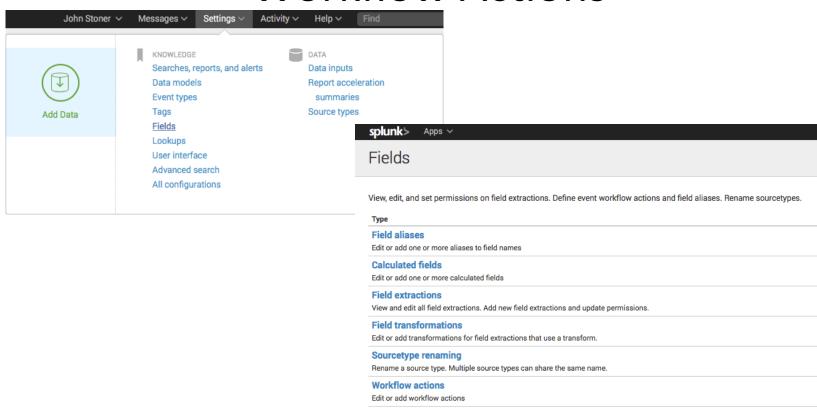
#### **Event Actions At Search**

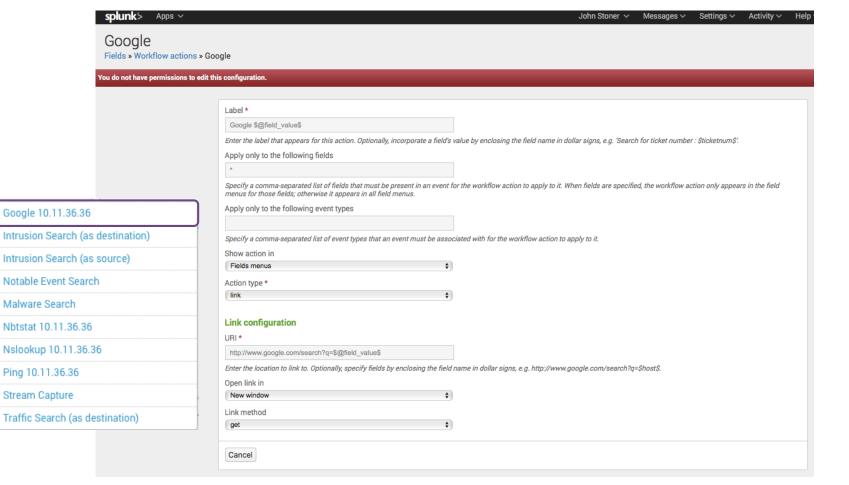


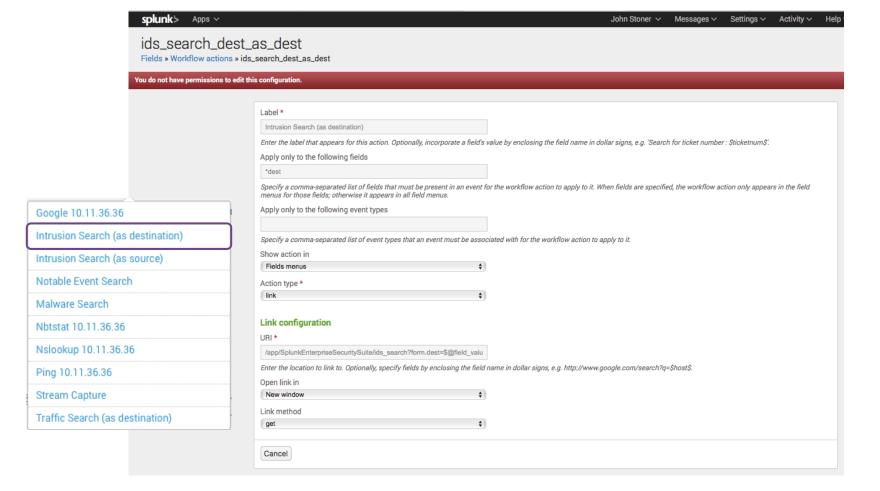
#### Field Actions At Search

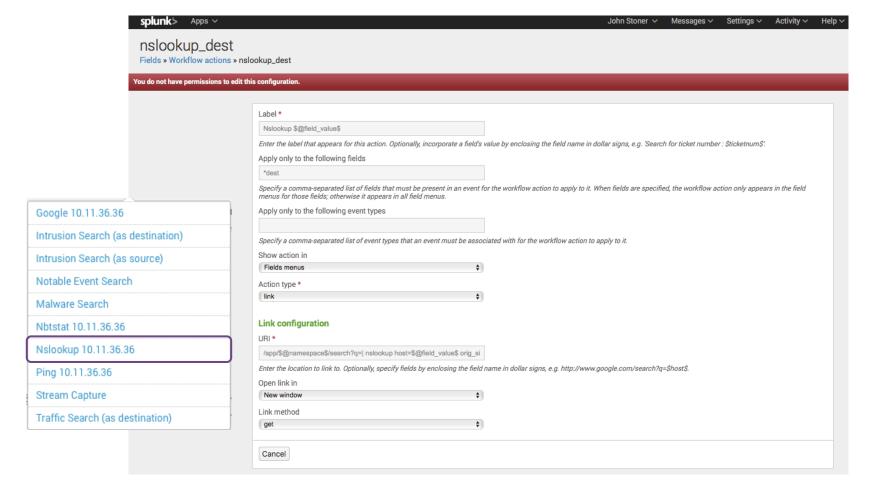


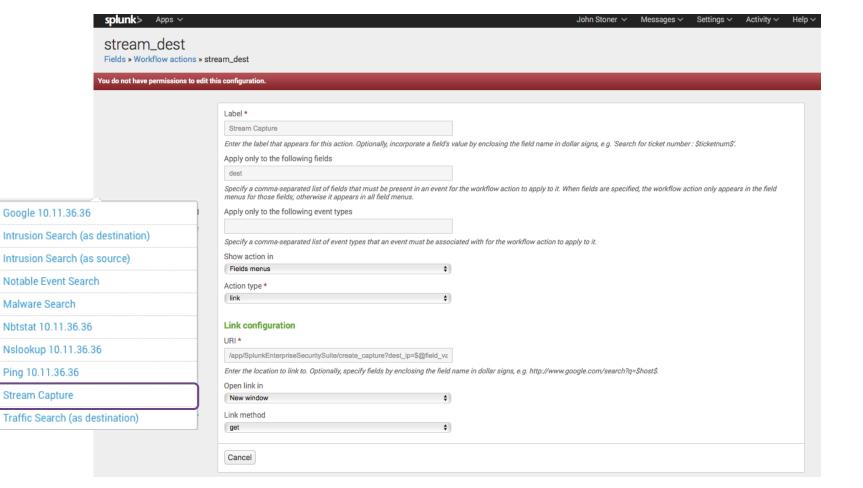
#### **Workflow Actions**











### **Correlation Search Actions**

#### **Correlation Search**

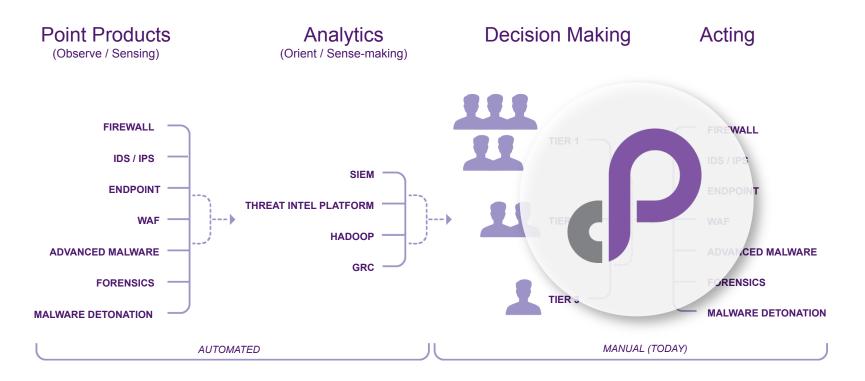
Search Name*	Excessive Failed Logins	
Application Context	SA-AccessProtection 💠	
Description	Detects excessive number of failed login attempts	
	Describes what kind of issues this search is intended to detect	
Search*	"user_count",dc(Authentication.dest) as "dest_count	search   stats values(Authentication.tag) as "tag",dc(Authentication.user) as ";count by "Authentication.app","Authentication.src"   rename "src"   where 'count'>=6   eval tag=mvjoin(tag," ")   rename "tag" as "orig_tag"
	Edit search in guided mode Edit search manually	
Actions		
Include in RSS feed		
Send email		
Run a script		
File name of the shell script		
to run	Splunk runs the script from \$SPLUNK_HOME/bin/scripts/	
Start Stream capture		
Cancel		Save

### OK I Think I Found An Issue, What Should I Do?

- Validate Against Threat Intelligence
- Review Historical Data for the Host
- Check Internal, Proprietary Data Stores
- Look at Past Tickets
- Check Management Consoles for Additional Deep Packet Analysis
- Start a Backup
- Quarantine a System



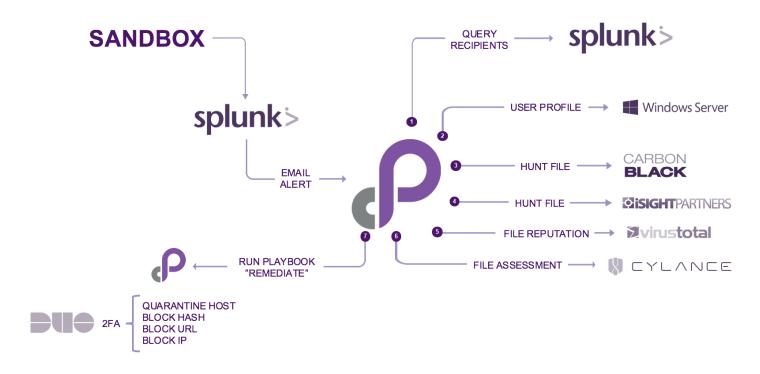
### **Automating Security Operations**



### DEMO: Splunk ES/Phantom Integration



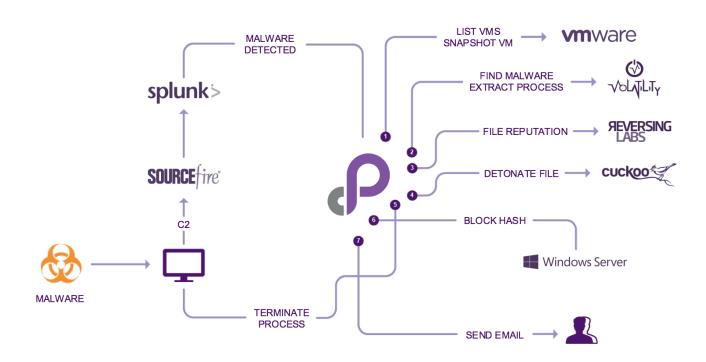
#### Case Study: Automated Malware Analysis & Remediation



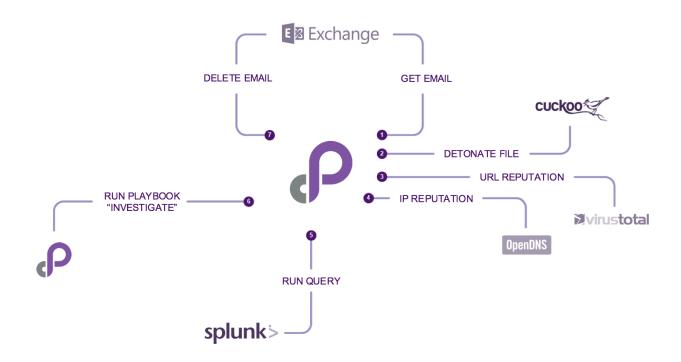
## **DEMO: Phantom Platform & Community**



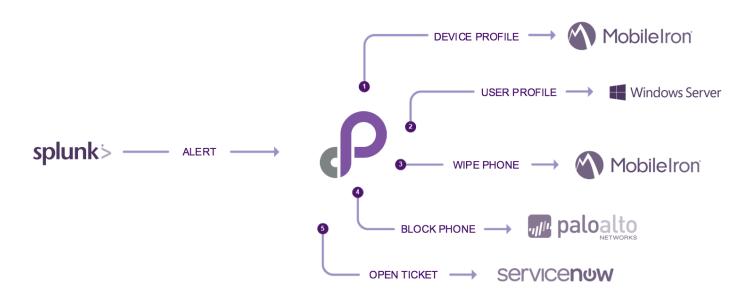
### Case Study: Investigate And Contain



### Case Study: Phishing Investigation



### Case Study: Unauthorized IP



### Session Recap

- Reviewed Adaptive Response
- Outlined Key Concepts for Splunk / Phantom
- Demoed Splunk ES / Phantom
- Shared Customer Case Studies
- What next?
  - Get the Free Community Edition@ www.phantom.us/join



blog.phantom.us



**Phantom-community** 



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# THANK YOU

