
FireEye
SECURITY REIMAGINED
COMBATTING
CYBER THREATS
PRESENTED BY
President, FireEye, Inc

YEAR IN REVIEW

~ 500 INVESTIGATIONS

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~17 COUNTRIES

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CONCLUSIONS

AGENDA

SO WHAT DO WE DO?

FIVE YEARS OUT

THERE ARE **FEW RISKS**
REPERCUSSIONS
FOR THE ATTACKERS

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ATTACKERS CONTINUE TO
EXPLOIT **HUMAN TRUST**

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Attacks Will Continue to Reflect Geopolitical Conditions

CYBER-CRIME TRADECRAFT HAS **IMPROVED DRASTICALLY**

EXTORTION IN CYBERSPACE IS RISING (BACK?)

DISCLOSURE IS MORE PROBABLE

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DETECTION EFFICACY IS **WEAKER** IN **LATER** **STAGES** OF THE KILL CHAIN

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ZERO DAYS DEPLOYED BY **NATION STATES**

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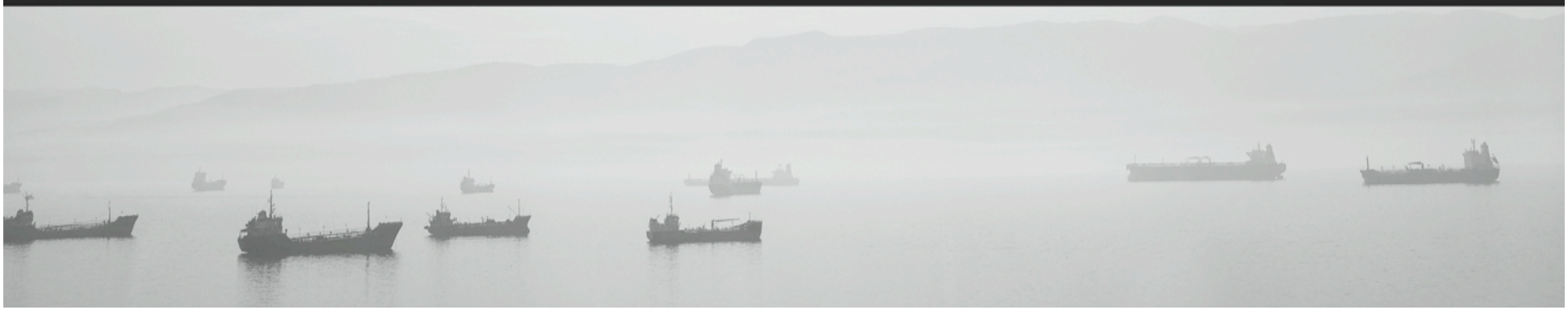
ATTRIBUTION IS GETTING HARDER

ACCURATE AND TIMELY ATTRIBUTION IS CRITICAL
FOR
DETERRENCE & LIABILITY

KEY WEAKNESSES

- Failure to detect spear phishing or malicious attacks
- Poor Credential Management
- Lack of Network Segmentation
- Single factor access to VPN or OWA
- Security safeguards not armed from privileged accounts
- Critical data for response not being collected



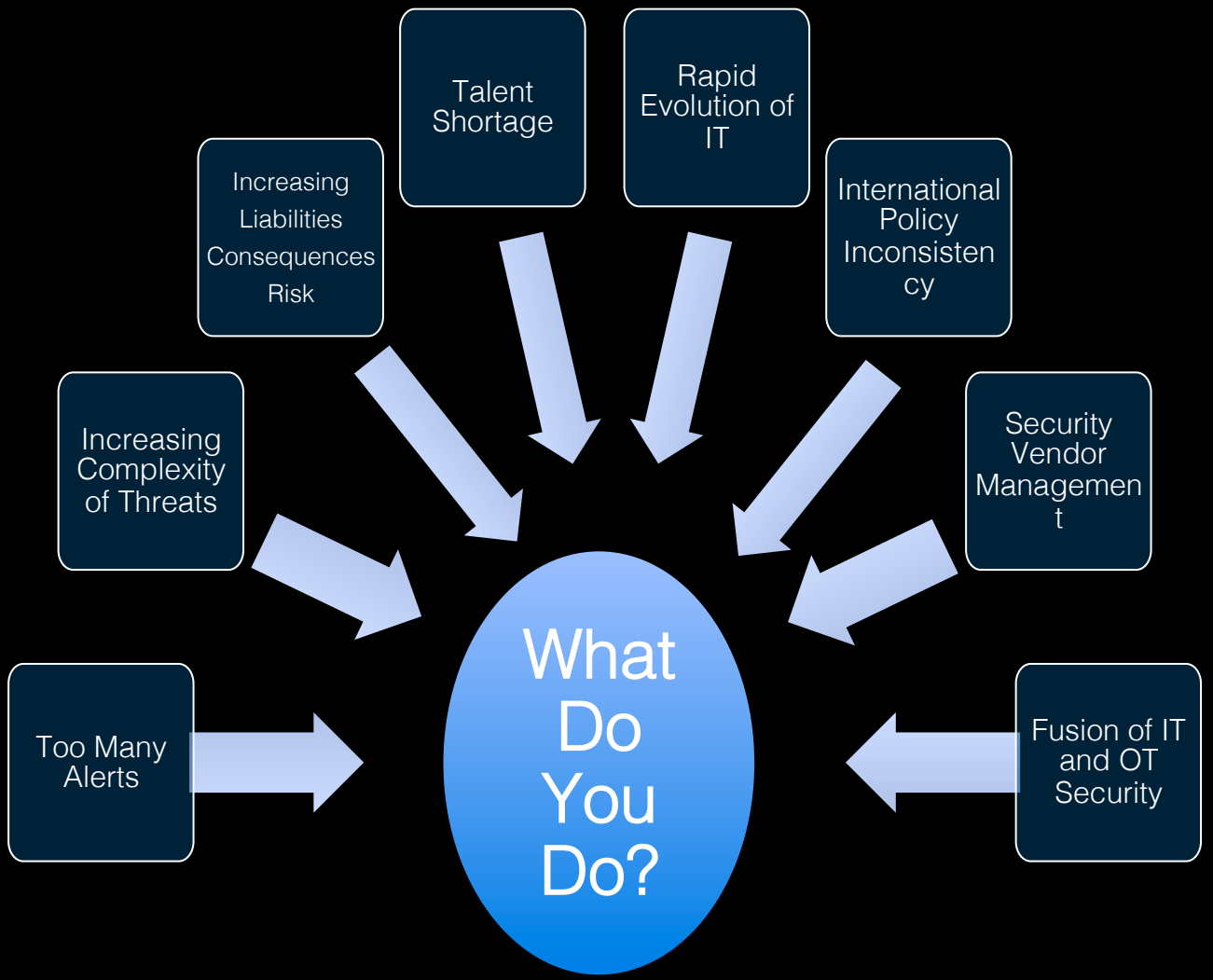
AGENDA

CONCLUSIONS

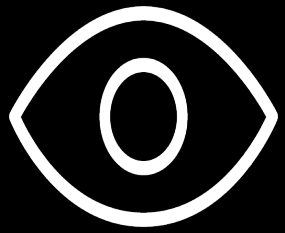
SO WHAT DO WE DO?

FIVE YEARS OUT

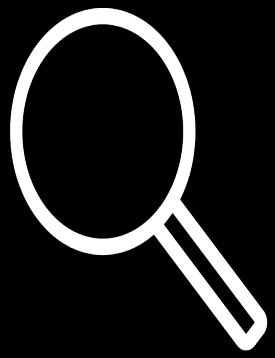
The CISO Dilemma …



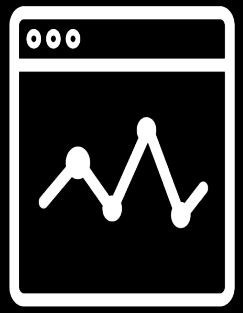
Talent Shortage Addressed by Increased Automation



Higher Fidelity



Threat Data



Analytics / ML

PROTECT THE NETWORK
TO
PROTECT THE DATA

- SECURE ENCLAVES
- NETWORK SEGMENTATION
- CLOUD MIGRATION

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PERIMETER PROTECTION
TO
COMPREHENSIVE PROTECTION

- NETWORK
- ENDPOINT
- CLOUD

- EXPLOIT
- MALWARE
- C2
- LATERAL MOVEMENT
- EXFIL
- TTPs

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LOG MANAGEMENT
TO
SECURITY ANALYTICS

- FILTER THE NOISE
- ANOMALY DETECTION

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REACT
TO
PROACTIVE HUNTING

- THREAT DATA FEED
- THREAT INTELLIGENCE
(WHO)
- DETECT THE KNOWNS

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VULNERABILITY ASSESSMENT

COMPROMISE ASSESSMENT

Penetration Testing → Red Teaming

Penetration Testing

Red Teaming

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Emergence of Security Orchestration (Consolidation / Integration / Automation)

What Is Working

- Create Secure Enclaves
- Credential Management
- “Dry Runs” of Incident Response Plan
- Focus on Phishing Prevention
- Require Two-Factor Authentication for Remote Access
- Only Permit Authorized Programs to Run on Servers
- Use New Technology to Block Advanced Malware
- Promote a “Security Culture”

FIVE YEARS OUT

ALL CONFLICT WILL HAVE A CYBER COMPONENT

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ESTABLISHING INTERNATIONAL RULES OF ENGAGEMENT

PRIVACY AND ANONYMITY

Assess Your Team

How would you compromise our company?
If an attack was successful, how would we detect it?
If we had a security breach today, what is the worst-case scenario? Who would you disclose the details to?

THANK YOU