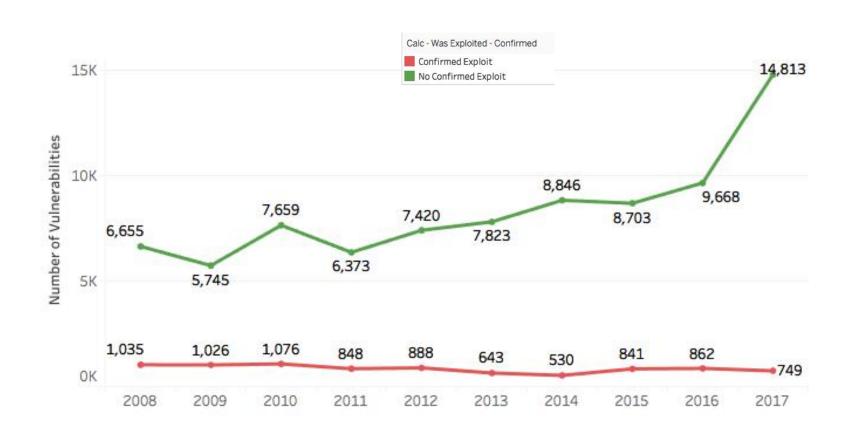
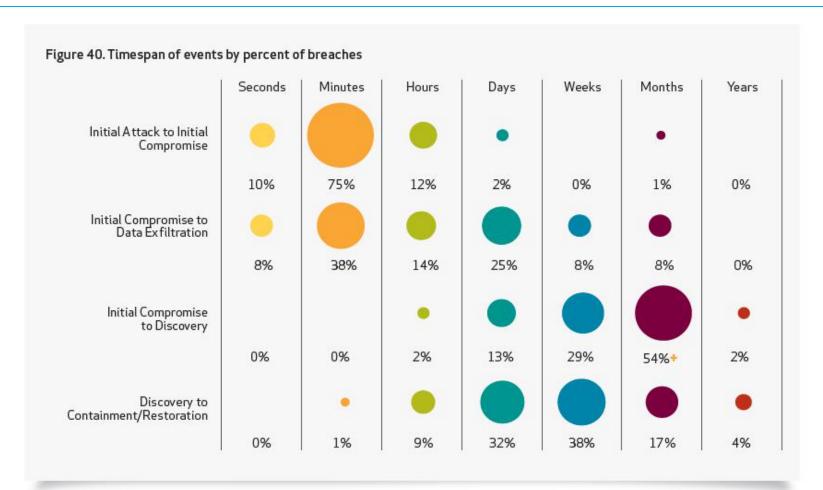


从黑产灰产到国家黑客 不断进击的网络安全威胁

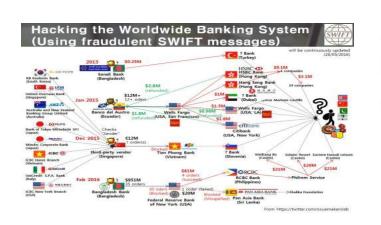
漏洞永恒存在,攻击永不停歇

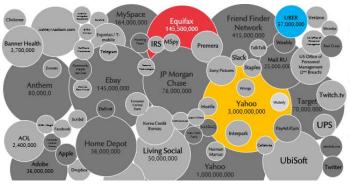


当前的网络安全防护体系已落后攻击技术发展



网络安全对抗进入新的时代





- · 安全威胁极度爆发,从勒索软件到SWIFT系统攻击,国家黑客行为泛滥,对抗 进入全新降维打击时代
- 黑产从窃取数据、到绑架数据、进而转向窃取企业计算能力,模式极度演进

GDPR、个人信息保护等合规性要求不断提升





- 全球个人信息保护相关法律法规不断出台, 合规性要求成为新的贸易战武器
- 数据保护、隐私保护挑战前所未有,企业必须进行重视和应对
- · CDO-首席数据官应运而生,CISO的部分职责分离
- · 数据保护预算大增(欧盟\$1.4m/美国\$1-10m),新的数据防护技术和产品需求猛增

从PDR到自适应 安全运营与应急体系不断进化

PDR+PPT

预防能力应作为必备能 力进行建设

预防

防火墙/路由器和交换机

入侵防御系统

安全加固和物理安全

身份管理

邮件、Web 过滤和防病毒

安全意识

检测能力应作为高优先 能力进行建设

检测

渗透测试和漏洞扫描

技术合规性(基线)扫描

入侵行为监控

数据泄密监测/防护

安全信息和事件管理

IT风险和通用控制评估

响应能力至少应被明确 定义

响应

事件响应计划和过程

安全响应措施

取证调查

证据处理

法律执行和诉讼

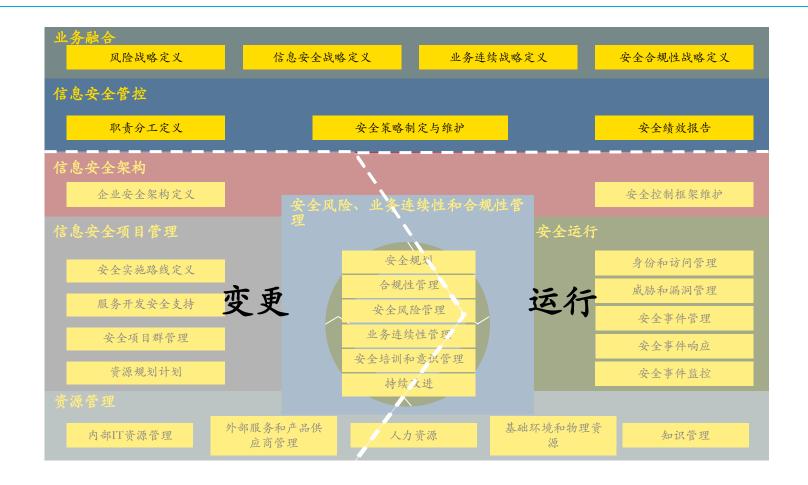
入侵行为分析

人: 治理结构, 组织架构, 战略, 资源, 意识, 考核

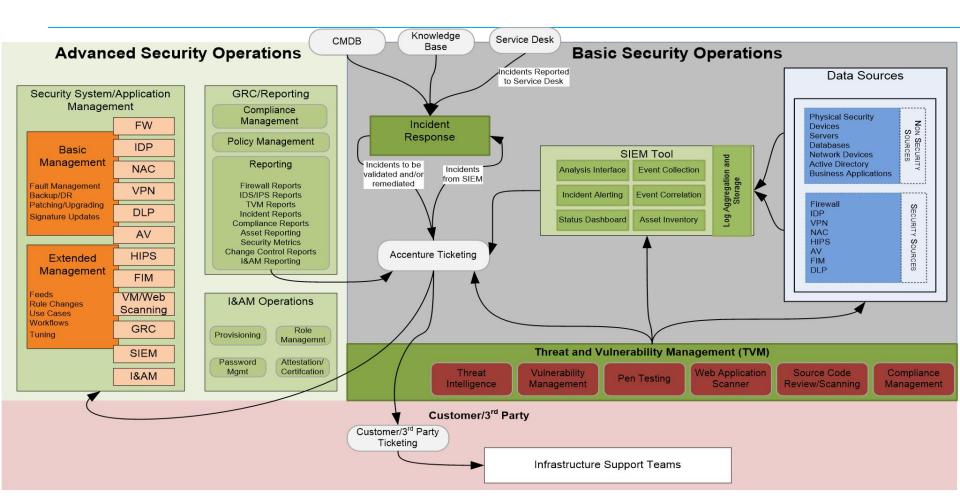
流程: 制度, 标准, 指南, 流程, IT 合规性, 第三方管理

技术:服务器,终端,网络,应用,数据库和数据

以风险为核心的安全运营模型



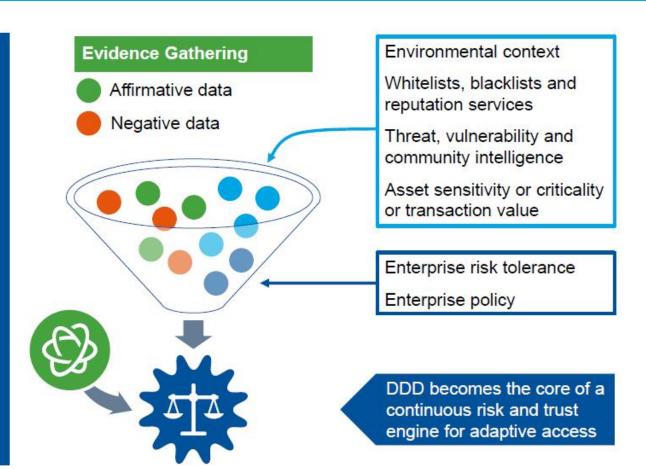
以SIEM为核心的安全架构



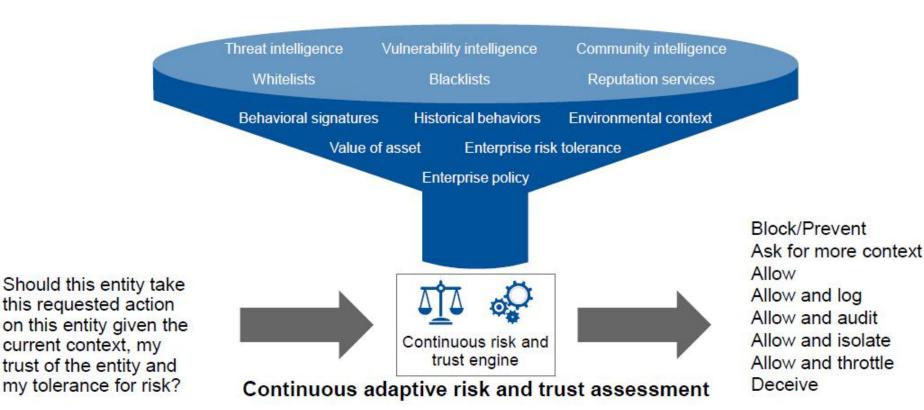
不断进化的安全模型

CARTA

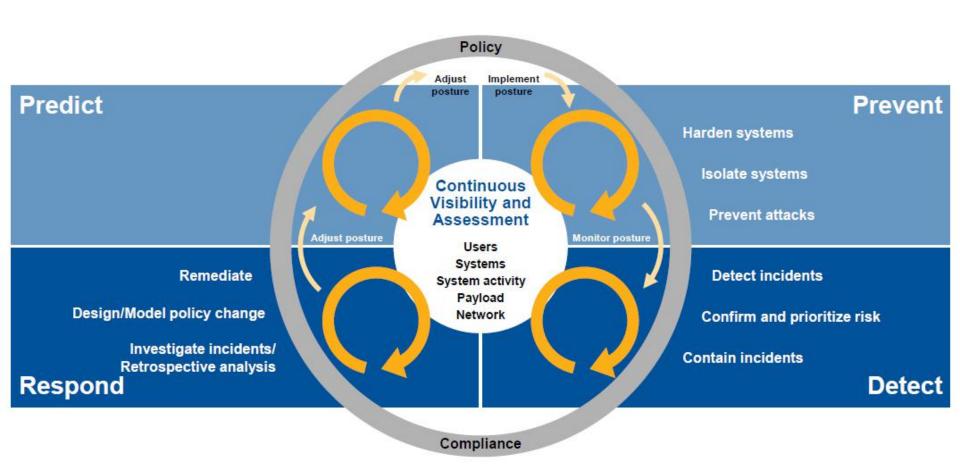
Continuous
Adaptive
Risk and
Trust
Assessment



Continuous Adaptive Risk and Assessment (CARTA)



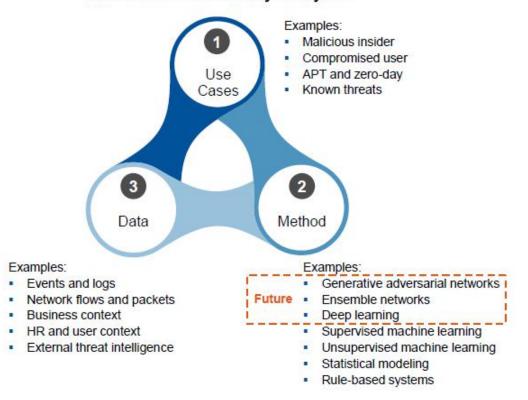
CARTA与Gartner 自适应安全架构



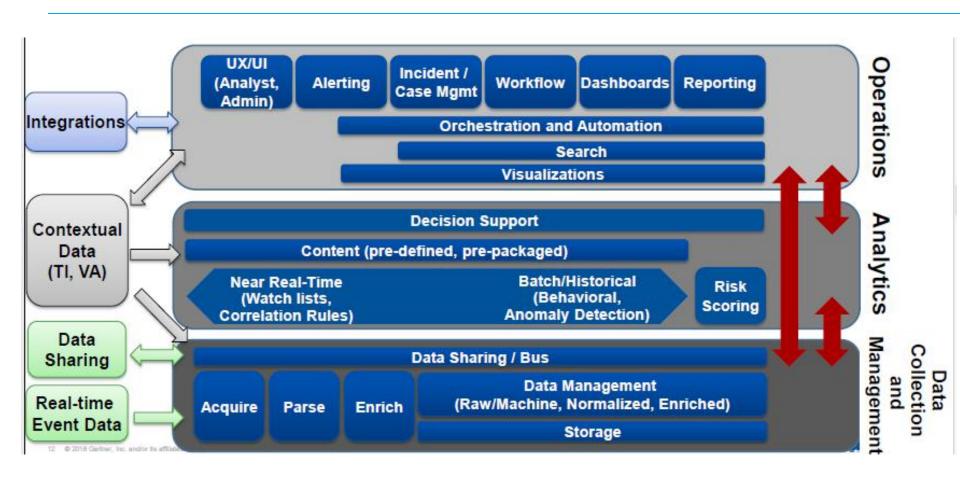
长江后浪推前浪,前浪倒在沙滩上不断进化的安全运营与应急解决方案

安全分析简单框架

Three Pillars of Security Analytics



SIEM平台的进化



现代安全运营中心要素

Processes:

- Not just alert triage!
- Hunting and proactive data exploration
- Active and continuous content dev.
- Wider integration of services

People:

- Expansion and evolution of the L1/L2/L3 model
- Specialty skills grow: TI, malware reversing, data analysis, etc.
- Services play many tactical roles (MDR)

Technology:

- Not just an SIEM! Endpoint and network visibility
- A role for analytics tools (UEBA and other security analytics)
- Broader use (and creation!) of threat intelligence (TI)
- Orchestration and automation tools to streamline workflows

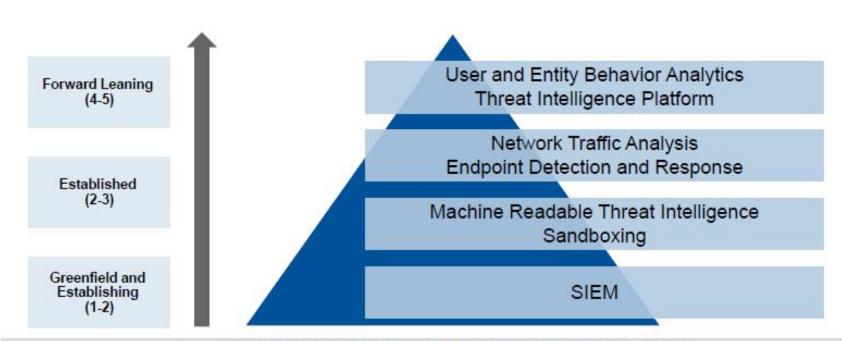
现代安全运营中心工具

- SOC "Nuclear Triad":
 - LOGS: Log analysis SIEM
 - NETWORK: Network traffic analysis
 IDPS, NTA and/or NFT



- ENDPOINT: Endpoint activity analysis EDR
- Analytics:
 - UEBA and other security analytics
- Threat intelligence TI
- Workflow and orchestration SOAR
- Exciting extras: Deception, cloud monitoring (CASB and CWPP), breach and attack simulation (BAS), etc.

现代安全运营中心工具的选择



Reminder #2: The maturity of the security analytics program does not correlate with the number of tools.

SOAR 成为安全运营新焦点

SOAR = (Workflow + orchestration + automation + knowledge management) for (security operations, incident

response, threat intelligence)

 Workflow = Controlling the execution of a process as a repeatable pattern of business activity (such as "triaging an alert")

- Automation = Machines do stuff on their own
- Orchestration = Coordinated workflow with manual and automated steps involving many components, done mostly to machines

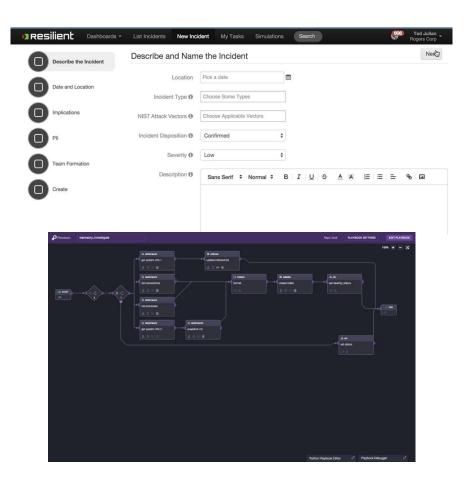


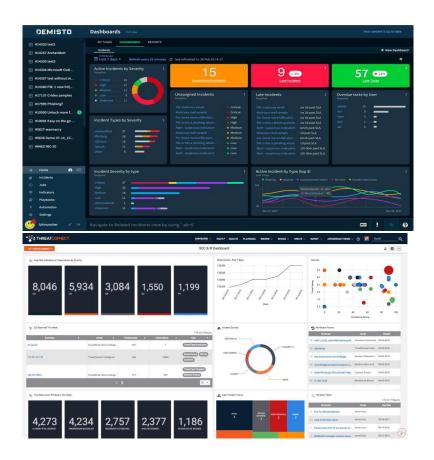
SOAR的来源





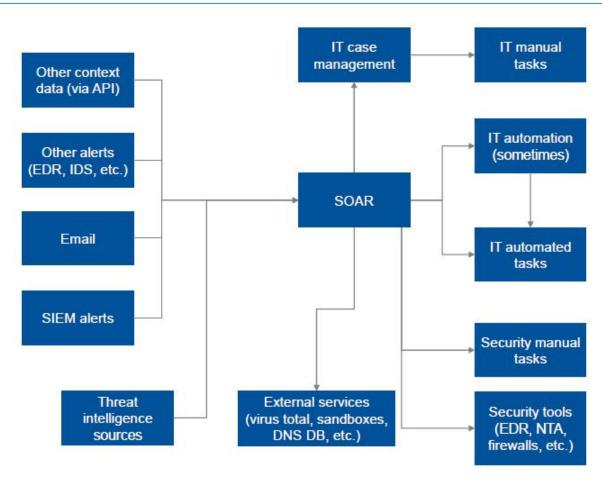
SOAR示例





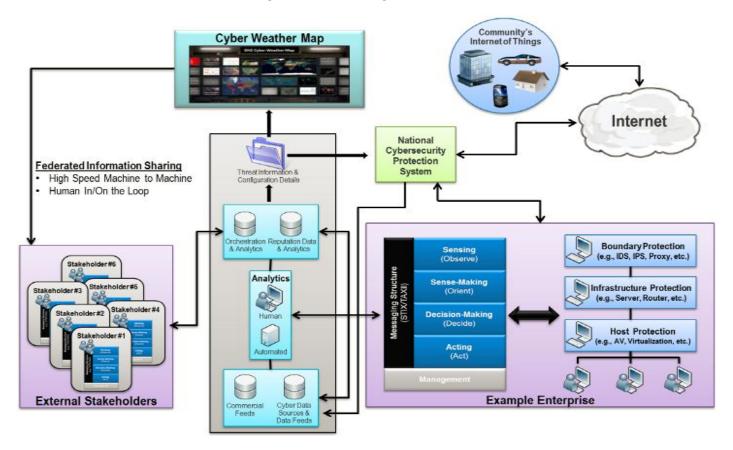
SOAR与安全集成

SOAR Integrations

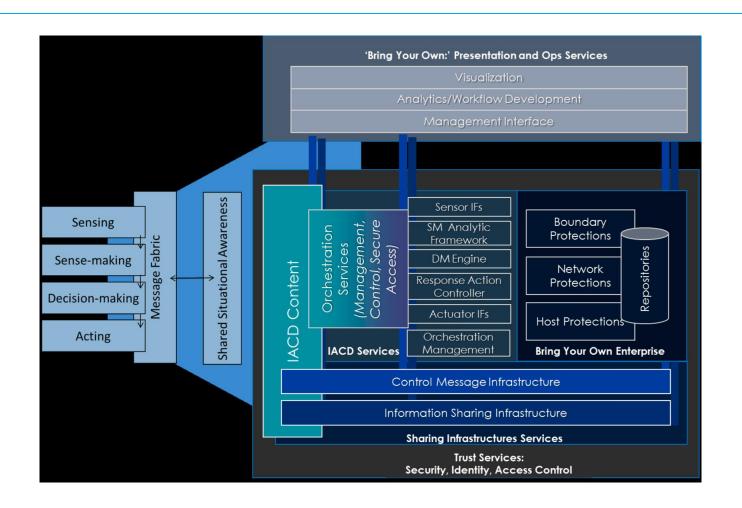


弹性、生态成为新的网络安全防护体系方向

DHS Secure and Resilient Cyber Ecosystem Example Architecture

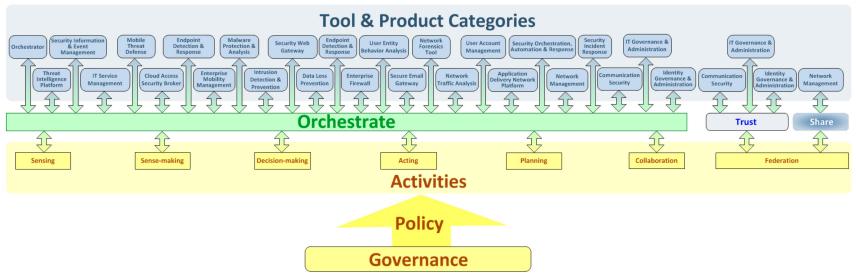


集成的自适应网络安全防护框架 IACD



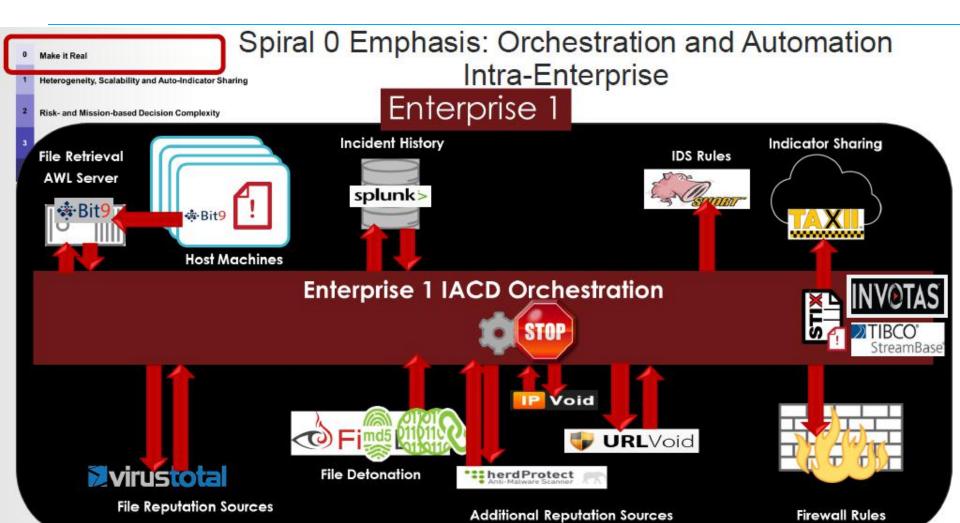
集成的自适应网络安全防护框架 IACD

Integrated Cyber Defense reference architecture - IACD



- · 所有的安全防护组件能力化、标准化、API化
- · 从STIX、TAXII到OpenC2,安全统一格式标准范围逐渐扩大
- 解耦、市场、生态

基于集成和自动化的新一代安全运营与应急响应解决方案



整个安全防护体系、产品即将全面升级



感谢聆听!

