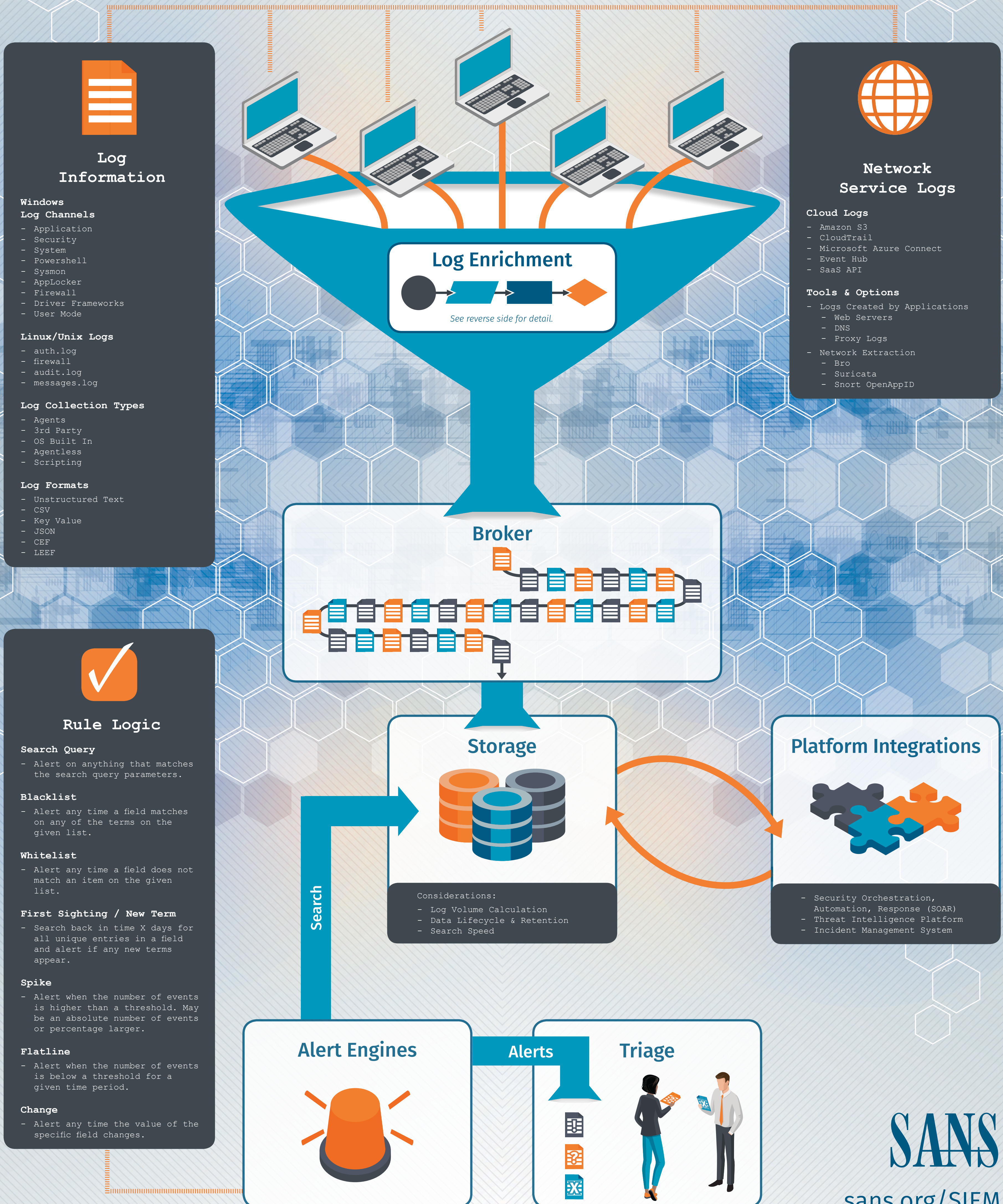
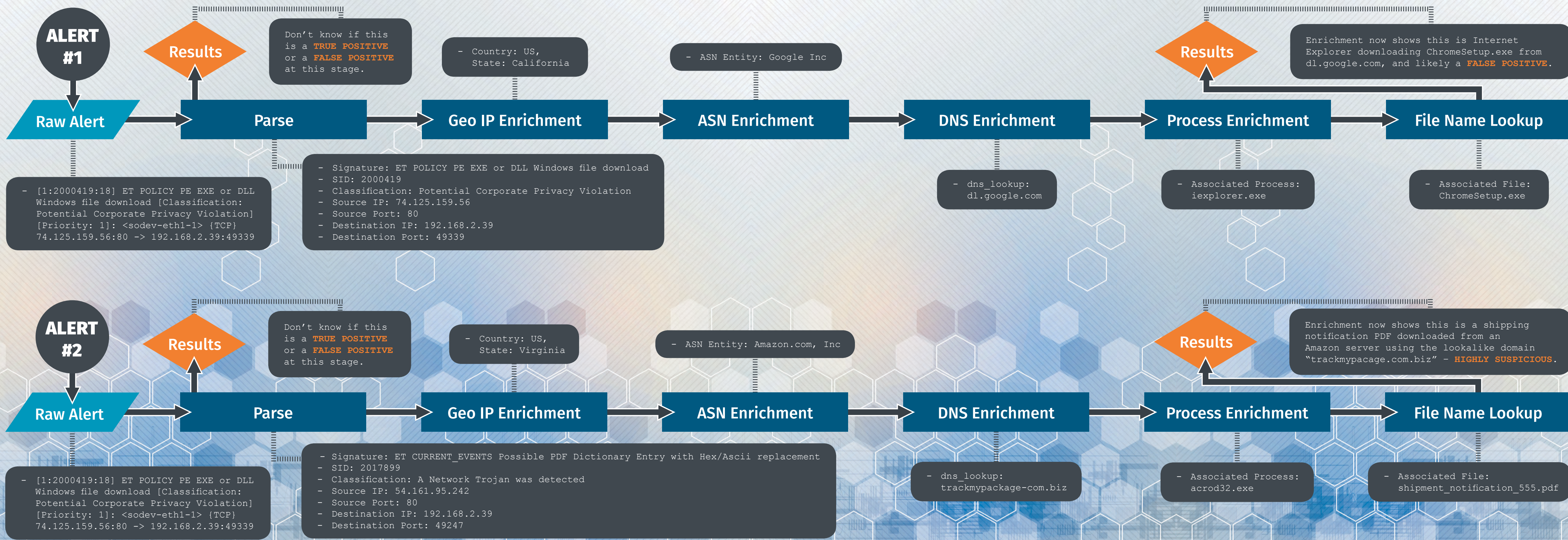


A Log Lifecycle

Security operations aren't suffering from a "big data" problem – but rather a "data analysis" problem. A SIEM can be an incredibly valuable tool for the SOC when implemented correctly. Leverage the Log Lifecycle Poster to add context and enrich data to achieve actionable intelligence – enabling detection techniques that do not exist in your environment today.





SANS

A Log Lifecycle

POSTER

sans.org/SIEM

SANS Training for Security Operations

TIER 1		
SEC401	Security Essentials Bootcamp Style	GSEC
ICS410	ICS/SCADA Security Essentials	GICSP
SEC450	Blue Team Fundamentals - Security Operations and Analysis	
TIER 2		
SEC501	Advanced Security Essentials - Enterprise Defender	GCED
SEC455	SIEM Design & Implementation	
SEC555	SIEM with Tactical Analytics	GCDA
SEC511	Continuous Monitoring & Security Operations	GMON
TIER 3		
SEC503	Intrusion Detection In-Depth	GCED
FOR572	Advanced Network Forensics: Threat Hunting, Analysis & Incident Response	GNFA
FOR610	Reverse-Engineering Malware: Malware Analysis Tools & Techniques	GREM
ICS515	ICS Active Defense & Incident Response	GRID

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SIEM Collection Capability & Maturity Progression

	New Deployments	Established Deployments	Mature Deployments
Collection:	Collection of logs from critical assets and hosts that access them	Collection of most at-risk host logs: desktops, servers, and appliances	Full tactical log collection on desktops, servers, appliances, mobile devices, and any other relevant assets
Context Building & Tool Integration:	Building naming standard, basic tagging/categorization	Consistent naming standard, detailed tagging and categorization, some integration with asset DB / vulnerability management data sources, some automation	Using all collected info for anomaly detection (enriched with tagging and asset info), SOAR integration
Detection & Alerting:	High fidelity alert collection, emphasis on rule validation and FP reduction	High fidelity alert queue, established process for lower fidelity alert storage and periodic review	Upgrading of lower fidelity alerts based on context and automation, applied anomaly detection, data science capabilities for beaconing and DGA detection, UEBA
Log Agent Agility:	Automatic, installer pushed (SCCM)	Fully automated deployment and enforcement on all systems	Dynamic agent confirmation based on self-assessed services run on host