

24/7 Cyber-Security Intelligence Services

Detection and removal of threats from the corporate network, 24/7.

Cyber-security by the numbers

- 76% of websites contain vulnerabilities
- 496,657 Web attacks blocked per day
- 1 in 965 Emails is a phishing attack
- 317M New malware variants yearly
- 113% Increase in ransomware /
 CryptoLocker style attacks in 2014

- 28% of malware is virtual-machine aware
- 23% increase in breaches in 2014
- 1.9M+ Malicious web robots



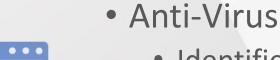
Traditional / typical security measures



- Firewall
 - Monitors incoming and outgoing network traffic and acts as a barrier to traffic that doesn't meet certain requirements.



- Intrusion Detection System / Intrusion Prevention System
 - Looks for suspicious patterns in network traffic.



• Identifies malware based upon known patterns or suspicious program behaviors.



- Securely Configured Routers and Switches
 - Ensure security gaps don't form at connection points with the internet or other network area.

Why the small and medium business?

"We are absolutely facing an epidemic of attacks on our nation's infrastructure and attempts to gain access to information. But smaller organizations tend to be easier and more attractive targets for cyber criminals."

Jason Oxman, CEO
Electronic Transactions Association

- Fewer resources
- Minimal security expertise
- Inferior (or freeware) anti-virus
- Less advanced security layers
- Prone to bank online
- Less stringent security policies



Attacks could have been prevented

66

In nearly all examples of successful breaches, evidence of compromise was readily available in the device log data.



The requirements for effective security

Infrastructure



- Firewalls
- IDS/IPS
- Anti-Virus

Technology



SIEM

(Security Information and Event Management)

- Log Collection
- Log Correlation

Human Expertise



- Threat Experience
- Advanced Training
 - 24/7 Vigilance

What is a log / event file?

- Machine language that records each event a device performs
- Generated several times per second
- Example:

[ComputerName]="VWSATBSD00DC1.sa.vwg" [Data]="NULL" [EventCode]="4672" [EventIdentifier]="4672" [EventType]="4" [Logfile]="Security" [RecordNumber]="1255306321" [SourceName]="Microsoft-Windows-Security-Auditing" [TimeGenerated]="20150312084346.907957-000" [TimeWritten]="20150312084346.907957-000" [Type]="Audit Success" [User]="(null)" [Message]="Special privileges assigned to new logon." [[Subject]] [Security ID]="S-1-5-18" [Account Name]="VWSATBSD00DC1\$" [Account Domain]="BRVWB00" [Logon ID]="0xe79eda1c" [Privileges]="SeSecurityPrivilege,SeBackupPrivilege,SeRestorePrivilege,SeTakeOwnershipPrivilege,SeDe bugPrivilege,SeSystemEnvironmentPrivilege,SeImpersonatePrivilege,SeLoadDriverPrivilege,SeEnableDel egationPrivilege,SeCreateTokenPrivilege,SeAuditPrivilege,SeTcbPrivilege"

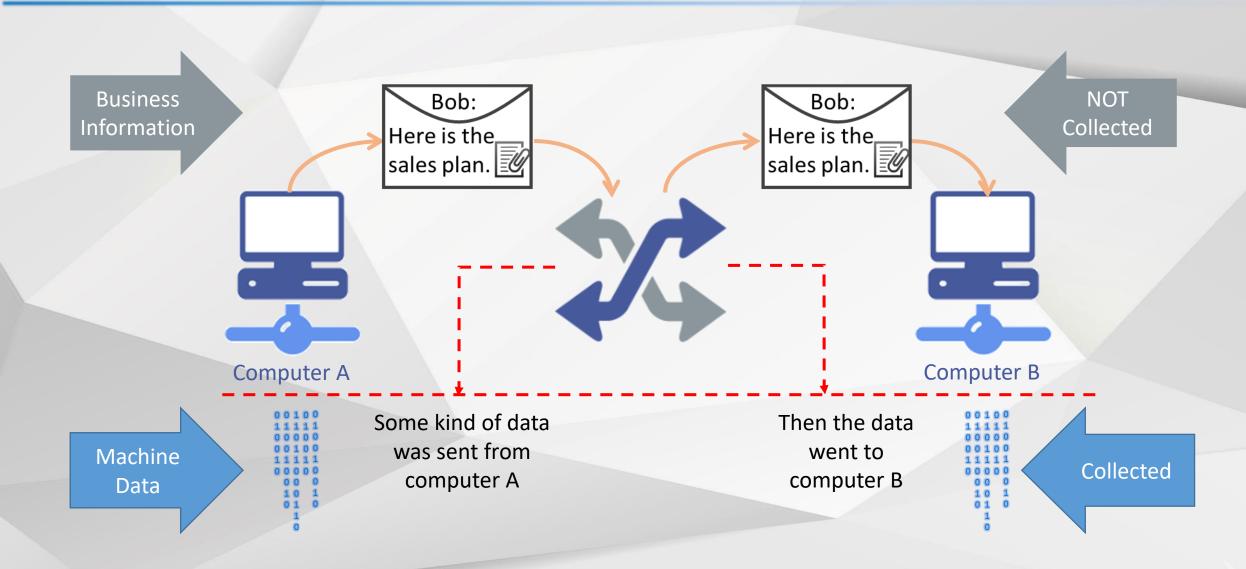
Event Data Normalization (Parsing)

[ComputerName]="VWSATBSD00DC1.sa.vwg" [Data]="NULL" [EventCode]="4672" [EventIdentifier]="4672" [EventType]="4" [Logfile]="Security" [RecordNumber]="1255306321" [SourceName]="Microsoft-Windows-Security-Auditing" [TimeGenerated]="20150312084346.907957-000" [Type]="Audit Success" [User]="(null)" [Message]="Special privileges assigned to new logon." [[Subject]] [Security ID]="S-1-5-18" [Account Name]="VWSATBSD00DC1\$" [Account Domain]="BRVWB00" [Logon ID]="0xe79eda1c" [Privileges]="SeSecurityPrivilege,SeBackupPrivilege,SeRestorePrivilege,SeTakeOwnershipPrivilege,SeDebugPrivilege,SeSystem EnvironmentPrivilege,SeImpersonatePrivilege,SeLoadDriverPrivilege,SeEnableDelegationPrivilege,SeCreateTokenPrivilege,Se AuditPrivilege,SeTcbPrivilege"

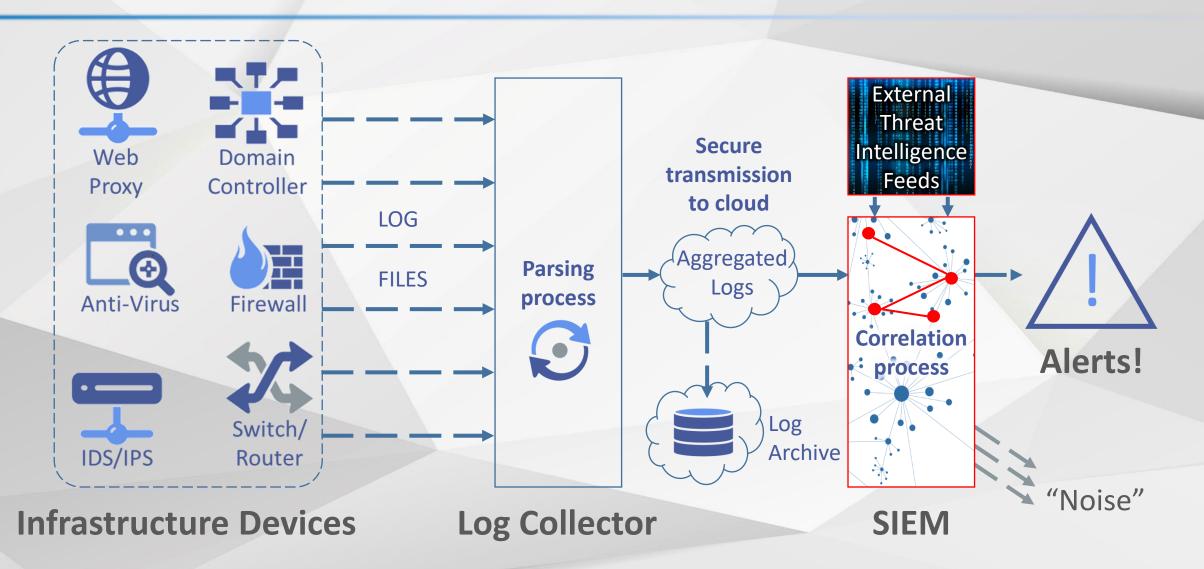


Event Details 😡 🗙					
Display	Filter	Group By	Item	Value	•
			Collector ID	10,011	
			Count	1	ш
			Customer ID	2,009	ш
			Customer Name	Volkswagen	ш
			Destination Host Name	vwsatbsd00dc1.sa.vwq	Н
✓			Destination IP	10.134.244.10	
			Device Time	04:44:18 03/12/2015	
			Domain	BRVWB00	
			Event Action	0 (Permit)	
			Event ID	6615928627698046867	
✓			Event Name	Windows administrator equivalent suc	
			Event Parse Status	0	≣
✓			Event Receive Time	04:44:18 03/12/2015	
✓			Event Severity	1	
			Event Severity Category	LOW	
			Event Source	Microsoft-Windows-Security-Auditing	
✓			Event Type	Win-Security-4672	
			Host Name	VWSATBSD00DC1.sa.vwq	
			Message	Special privileges assigned to new log	
			Relaying IP	10.134.244.10	
			Reporting Device Name	vwsatbsd00dc1.sa.vwq	
✓			Reporting IP	10.134.244.10	v
Mile Secure AS / / Miledows administrator advisation a					

What kind of data is collected and stored?



What is SIEM?

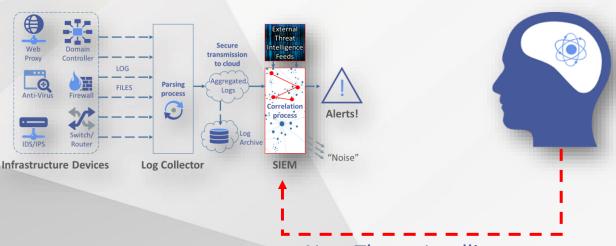


24/7 Cyber-security process

Automated Detection

Human Expert Analysis

Timely Incident Response





- New Threat Intelligence
- Advanced Correlation Rules
- New Malicious URL Data

Benefits of 24/7 Security Services

- Optimize your existing security investment
 - Insight into the interactions of your complex environment
- Be assured hackers and cyber-criminals don't go un-noticed
 - Experts can see hacking, espionage and malicious actions as they occur in real-time
- Limit the impact of zero-day malware outbreaks
 - Spots malware patterns and provides alerts before extensive damage is done
- Ensure security policies are enforced
 - Complements other tools to aid in spotting rogue employee/u behaviors

Aids in regulatory compliance

PCI-DSS

Payment Card Industry-Data Security Standards



NCUA

National Credit Union Code of Federal Regulations part 748



SOX

Sarbanes-Oxley



FDIC

IT Risk Management Program (RMP)



GLBA

The Gramm–Leach–Bliley Act



HIPAA

Health Insurance Portability and Accountability Act



We can help!

Our organization provides:

- "Hand's-off" Security
 - Leave it to us!
- Consultation on 24/7 monitoring options
- Around-the-clock cyber-threat detection
- Advanced threat analysis
- Rapid cyber-threat remediation



Our key service offering



- Consultation on monitoring priority
- Log collector in virtual appliance form factor
- 24/7 Real-time, automated cyber threat detection
- Incident notification
- 24/7 Threat analysis and reporting by human engineers
- Basic device performance data
- Advanced Security Engineers provide threat response and remediation around-the-clock

Don't delay

- A 2014 survey of 59 US firms by the Ponemon Institute and HP found the average annual cost of responding to cyber attacks was \$12.7 million, up 96 percent over the previous five years.
- McKinsey research shows that companies are struggling with their capabilities in cyber-risk management.
- Norse Security recently showed in just 45 minutes, the U.S. was the victim of 5,840 cyberattacks.

Source: Business Insider. Norse Hacking Map, June 2014

Source: HP Cost of Cybercrime Study, 2014

Source: McKinsey - The Rising Strategic Risks of Cyberattacks, May 2014

Thank You!

We'd like to be your trusted provider of 24/7 Cyber-Security Services