

Contenir les Cybermenaces critiques grâce à l'intelligence de sécurité

Youssef Hbilate



The Security Intelligence Company

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Consultant en sécurité informatique



La prévention seule est vaine

“ La prévention est vaine en 2020 ”

“ La sécurité de l'informatique ne peut plus empêcher les attaques ciblées ”

“ En 2020, 60% des budgets sécurité de l'informatique seront alloués à la detection et aux réponses rapides contre 10% en 2013. ”

Prevention Is Futile in 2020: Protect Information Via Pervasive Monitoring and Collective Intelligence

Published: 30 May 2013

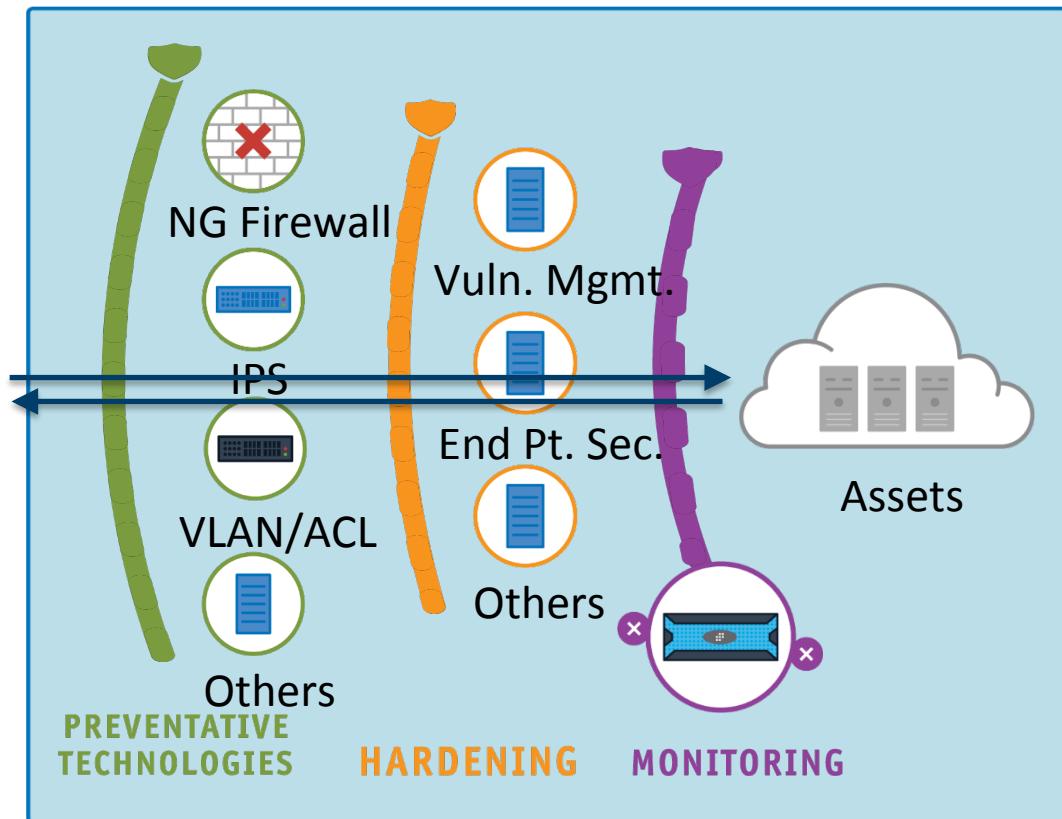
Analyst(s): Neil MacDonald

Advanced targeted attacks make prevention-centric strategies obsolete. Securing enterprises in 2020 will require a shift to information- and people-centric security strategies, combined with pervasive internal monitoring and sharing of security intelligence.

Gartner®

Lacunes des protections traditionnelles

- ❖ Identifiants faibles ou volés
76% des attaques
- ❖ Ingénierie sociale/Phishing
52% des attaques
- ❖ Botnets/APT
59% des attaques
- ❖ Menaces internes
35% des attaques



Cyber attaques majeurs des 12 derniers mois



STAPLES

Anthem.[®]
BlueCross

IRS

ASHLEY MADISON[®]
Life is Short. Have an Affair.[®]

SONY

TV5MONDE

LastPass



The Last Password You'll Ever Need.

Sept | Oct | Nov | Dec | Jan | Fev | Mar | Avr | Mai | Juin | Juil | Aout | Sept



KASPERSKY[®]



THALES

]HackingTeam[

Devriez-vous être inquiet ?



The image shows a close-up of a woman's face. She has her index finger placed vertically against her lips, creating a 'shh' or 'keep quiet' gesture. Her hair is dark brown and straight. A gold wedding band is visible on her left ring finger. The background is dark.

ASHLEY MADISON®
Life is short. Have an affair.®

Get started by telling us your relationship status:

Please Select

See Your Matches »

Over 37.610.000 anonymous members!



As seen on: BBC News,
Reuters, The Sun, The
Telegraph, The Times

Ashley Madison is the
world's leading married
dating service for
discreet encounters



Qui est LogRhythm

- Fondée en Mars 2003
- Siège social dans le Colorado
- Croissance annuelle > 50%
- Le plus grand éditeur indépendant de SIEM
- Solution Best of Breed, Leader
- Plus de 2500 clients
- Focalisation sur la satisfaction client : > 95% de clients restent nos clients

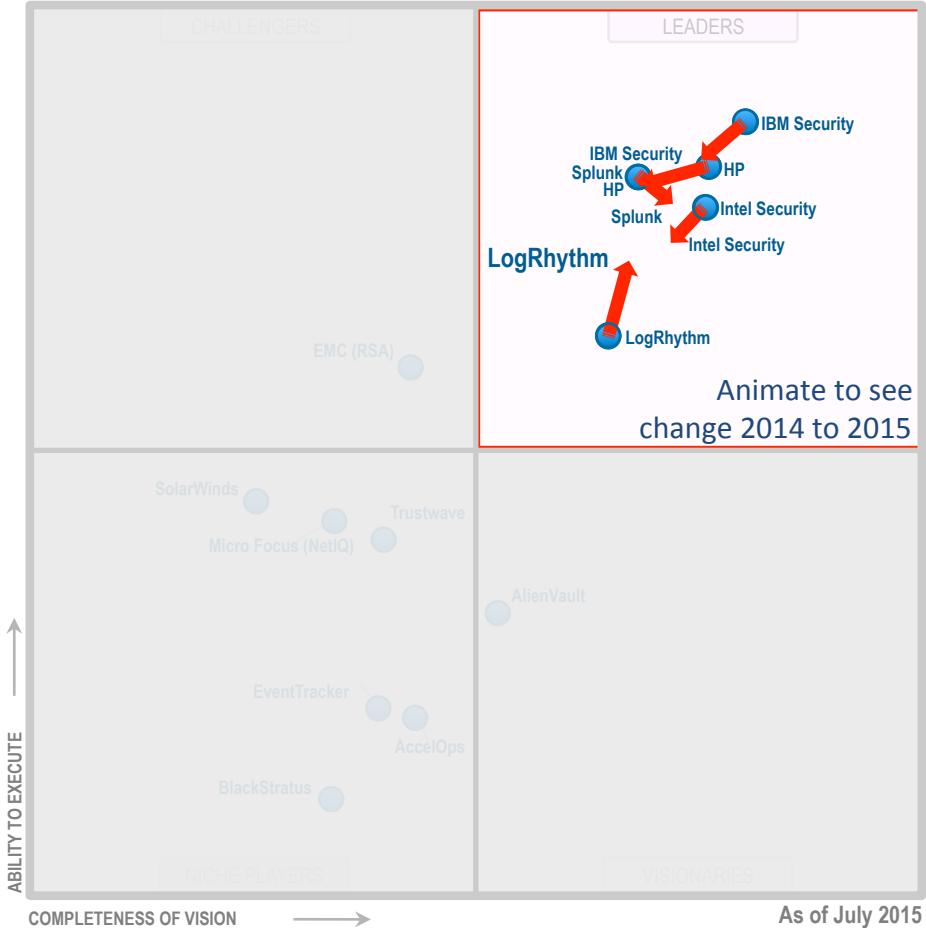


Gartner – Magic Quadrant for SIEM- 2015



- LogRhythm combines **SIEM capabilities** with endpoint monitoring, network forensics and incident management capabilities to support security operations use cases.
- Gartner receives consistent user feedback stating that **LogRhythm's solution is straightforward to deploy and maintain**, and provides **effective out-of-the-box use cases and reporting templates**.
- The average of LogRhythm reference customers **satisfaction scores** for **scalability and performance**, effectiveness of predefined rules, usefulness of predefined reports, ease of use and effectiveness of predefined queries, product quality and stability, and support experience is **higher than the average scores for all reference customers in those areas**

Gartner – Magic Quadrant for SIEM : Change from 2014 to 2015





- Focus



- Innovation



- Gestion globale des indicateurs des cyber menaces



- Gestion des incidents de sécurité du début à la fin



- Plateforme évolutive



- Valeur ajoutée rapide pour nos clients

- Security Intelligence:
 - Log Management + SIEM + Threat Analytics + Threat Intelligence
 - Endpoint forensic + Network forensic
- Rapidité de déploiement et d'évolution:
 - 700+ normalisation de sources de log préconfigurées
 - 700+ règles de corrélation préconfigurées (par modules) faciles à modifier
 - Modules de conformité PCI-DSS, ISO27001, Quick Start... préconfigurés
- Interface puissante et facile d'utilisation
- SOC Nouvelle Génération (produits & team qui gèrent les incidents)

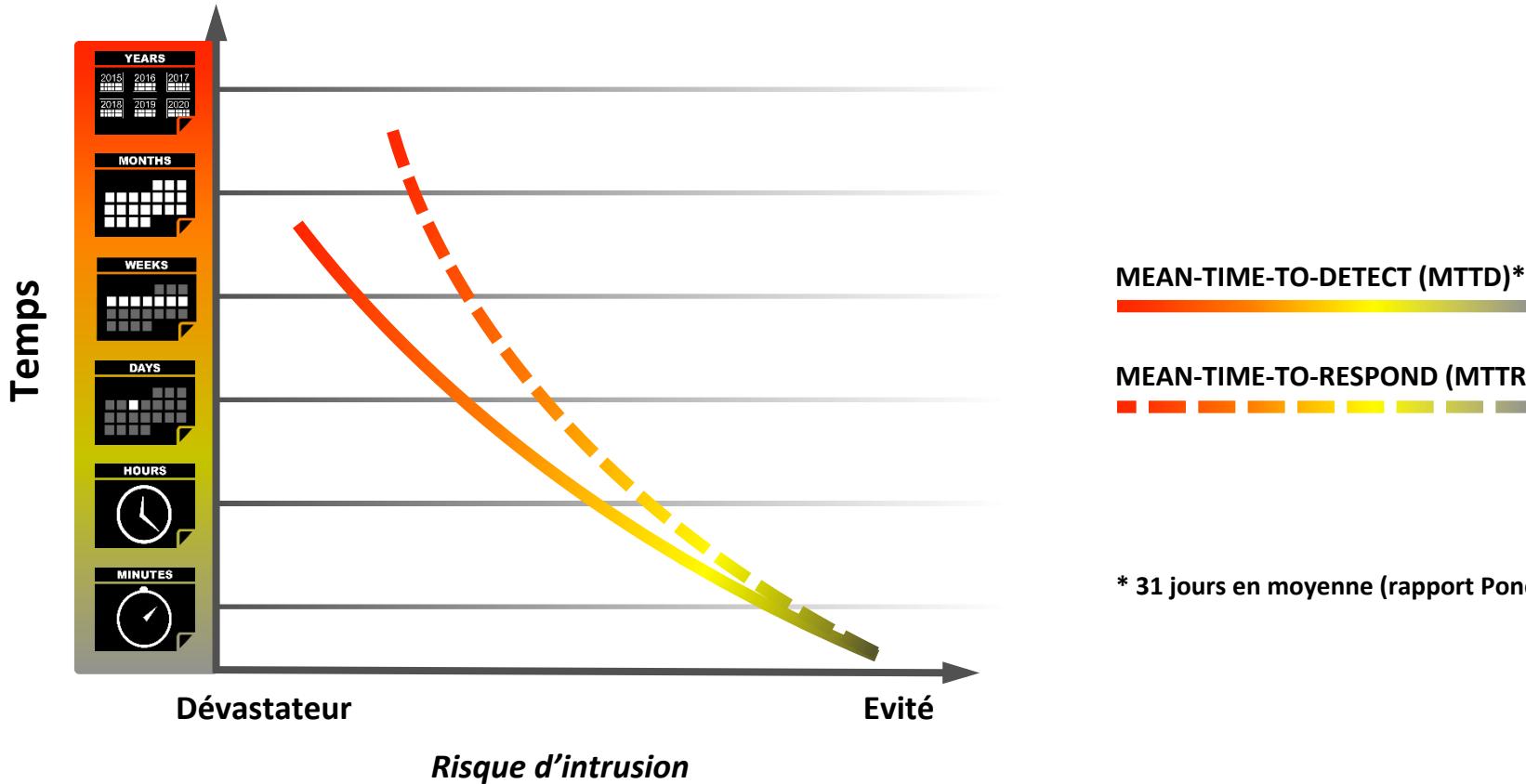
- **MTTD = Mean Time To Detect**

Temps Moyen De Détection

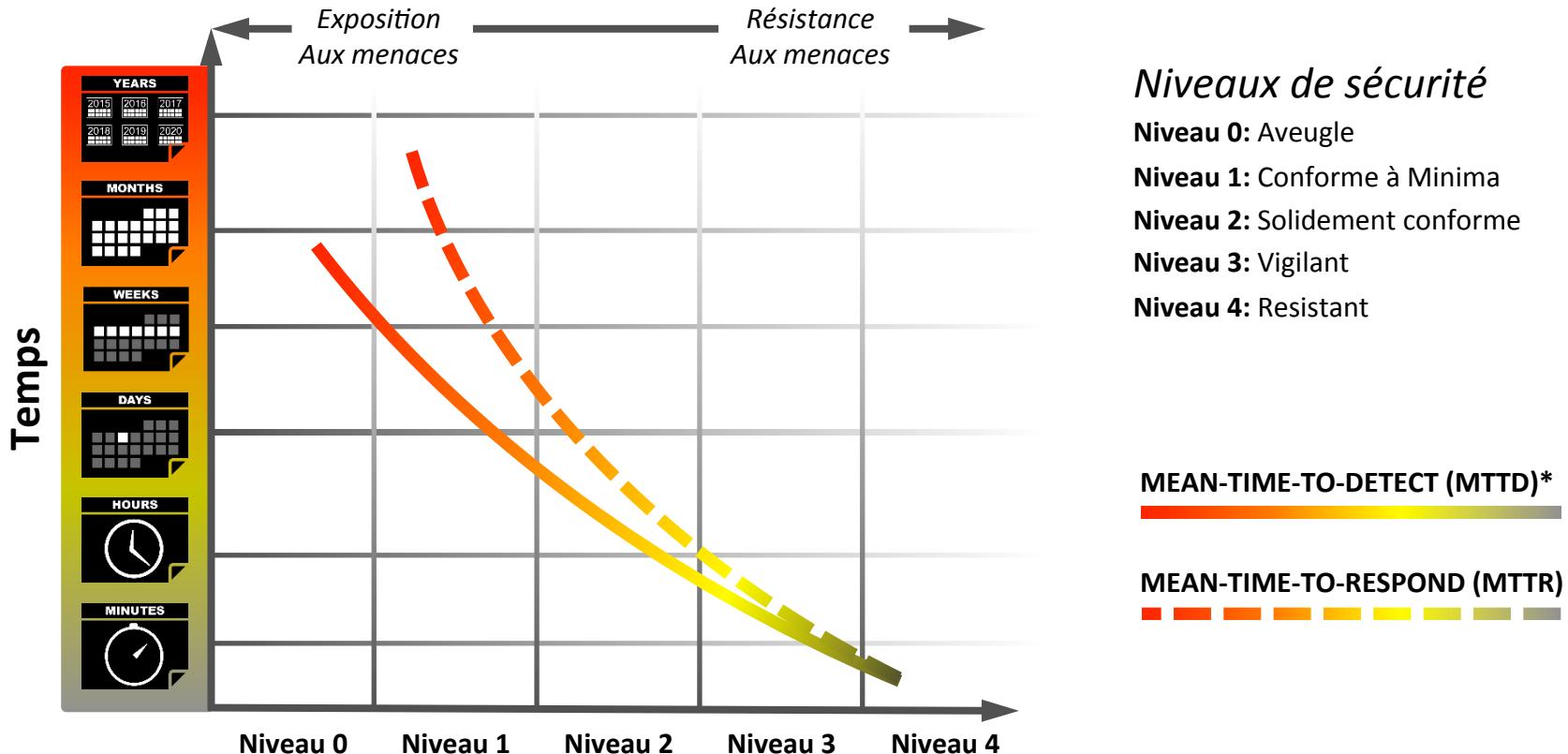
- **MTTR = Mean Time To Respond**

Temps Moyen De Réponse

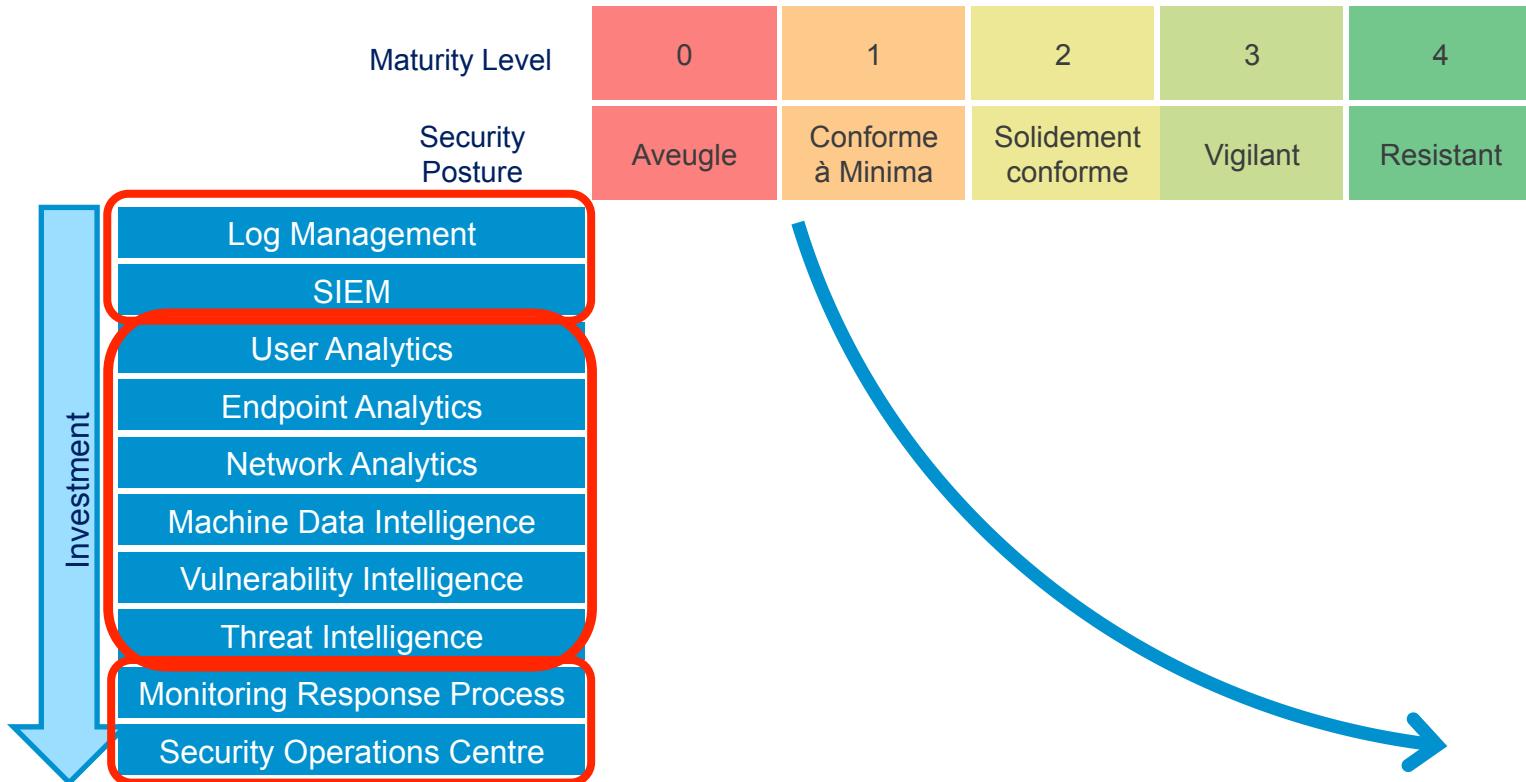
Une détection et réponse plus rapide réduit les risques

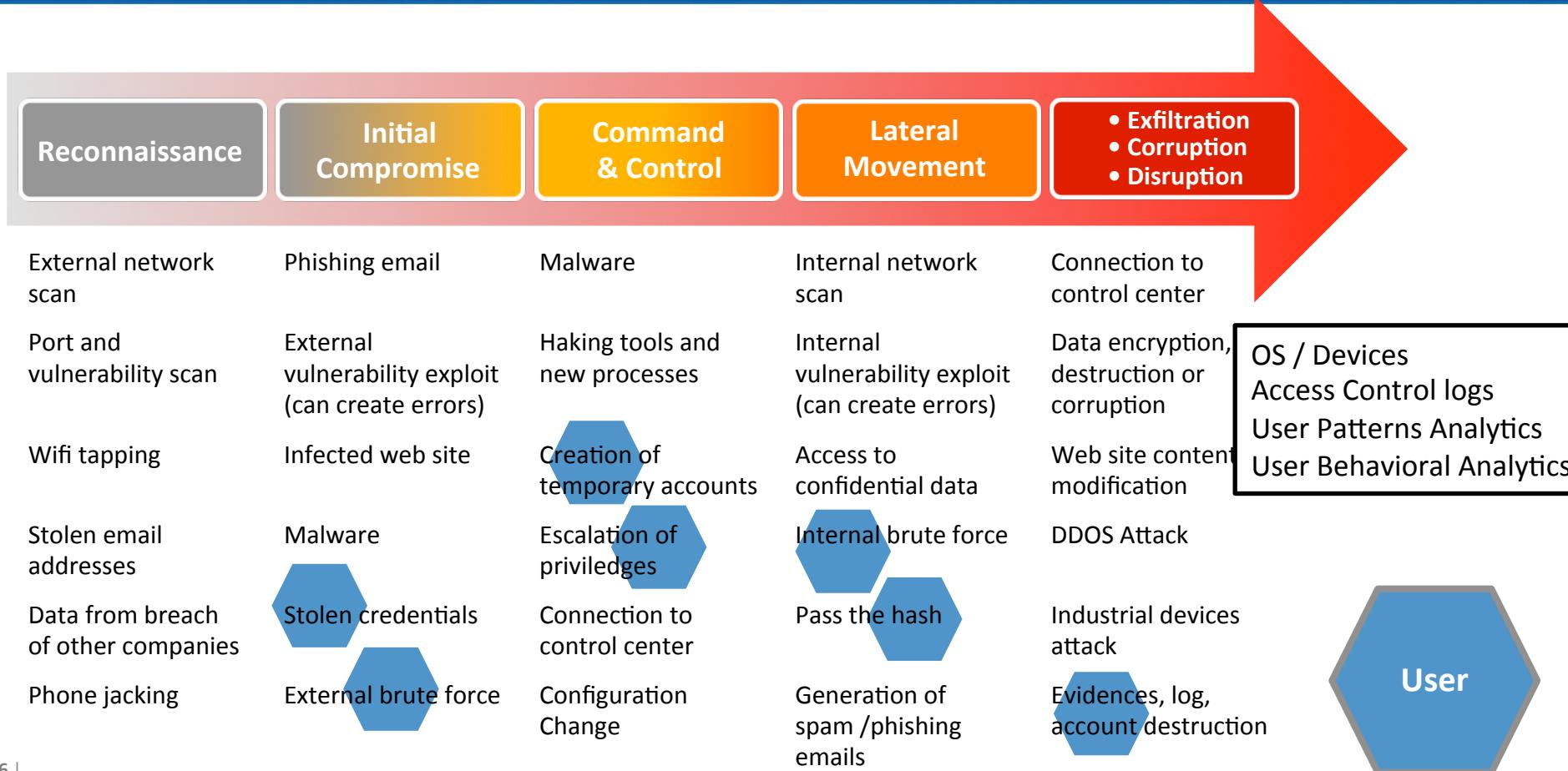


Modèle de maturité du “Security Intelligence”



Modèle de maturité du “Security Intelligence”





Endpoint analytics



Reconnaissance

Initial Compromise

Command & Control

Lateral Movement

- Exfiltration
- Corruption
- Disruption

External network scan

Phishing email

Malware

Internal network scan

Connection to control center

Port and vulnerability scan

External vulnerability exploit (can create errors)

Hacking tools and new processes

Internal vulnerability exploit (can create errors)

Data encryption, destruction or corruption

Wifi tapping

Infected web site

Creation of temporary accounts

Access to confidential data

Web site content modification

Stolen email addresses

Malware

Escalation of privileges

Internal brute force

DDOS Attack

Data from breach of other companies

Stolen credentials

Connection to control center

Pass the hash

Industrial devices attack

Phone jacking

External brute force

Configuration Change

Generation of spam /phishing emails

Evidences, log, account destruction

OS / Devices Audit logs
Endpoint Forensic data
Patterns Analytics
Behavioral Analytics

Endpoint

Network Analytics



Reconnaissance

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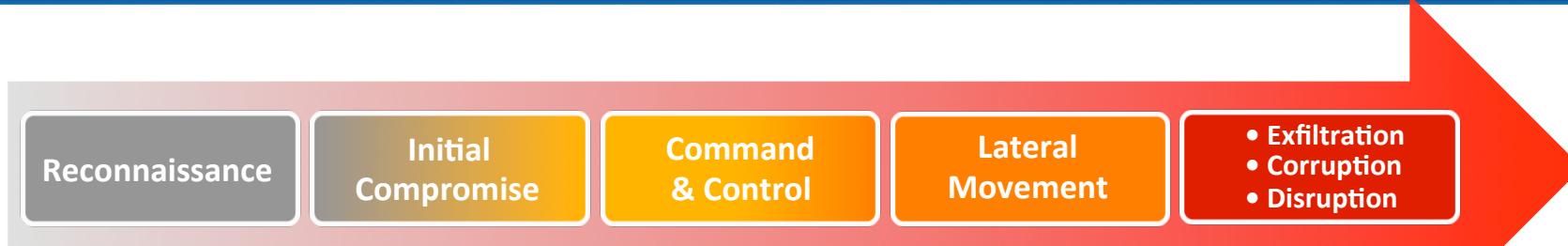
Generation of spam /phishing emails

Evidences, log, account destruction

Firewall logs
Internal traffic
Deep packet inspection
Patterns Analytics
Behavioral Analytics

Network

Threat and malware intelligence



External network scan	Phishing email	Malware	Internal network scan	Connection to control center	Threat lists Anti-malware data Anti-spam data Next Gen Firewalls
Port and vulnerability scan	External vulnerability exploit (can create errors)	Hacking tools and new processes	Internal vulnerability exploit (can create errors)	Data encryption, destruction or corruption	
Wifi tapping	Infected web site	Creation of temporary accounts	Access to confidential data	Web site content modification	
Stolen email addresses	Malware	Escalation of privileges	Internal brute force	DDOS Attack	
Data from breach of other companies	Stolen credentials	Connection to control center	Pass the hash	Industrial devices attack	
Phone jacking	External brute force	Configuration Change	Generation of spam /phishing emails	Evidences, log, account destruction	Threat intel

Vulnerability intelligence



Reconnaissance

Initial
Compromise

Command
& Control

Lateral
Movement

- Exfiltration
- Corruption
- Disruption

External network
scan

Phishing email

Malware

Internal network
scan

Connection to
control center

Port and
vulnerability scan

External
vulnerability exploit
(can create errors)

Hacking tools and
new processes

Internal
vulnerability exploit
(can create errors)

Data encryption,
destruction or
corruption

Vulnerability scanners
Patch assessment

Wifi tapping

Infected web site

Creation of
temporary accounts

Access to
confidential data

Web site content
modification

Stolen email
addresses

Malware

Escalation of
privileges

Internal brute force

DDOS Attack

Data from breach
of other companies

Stolen credentials

Connection to
control center

Pass the hash

Industrial devices
attack

Phone jacking

External brute force

Configuration
Change

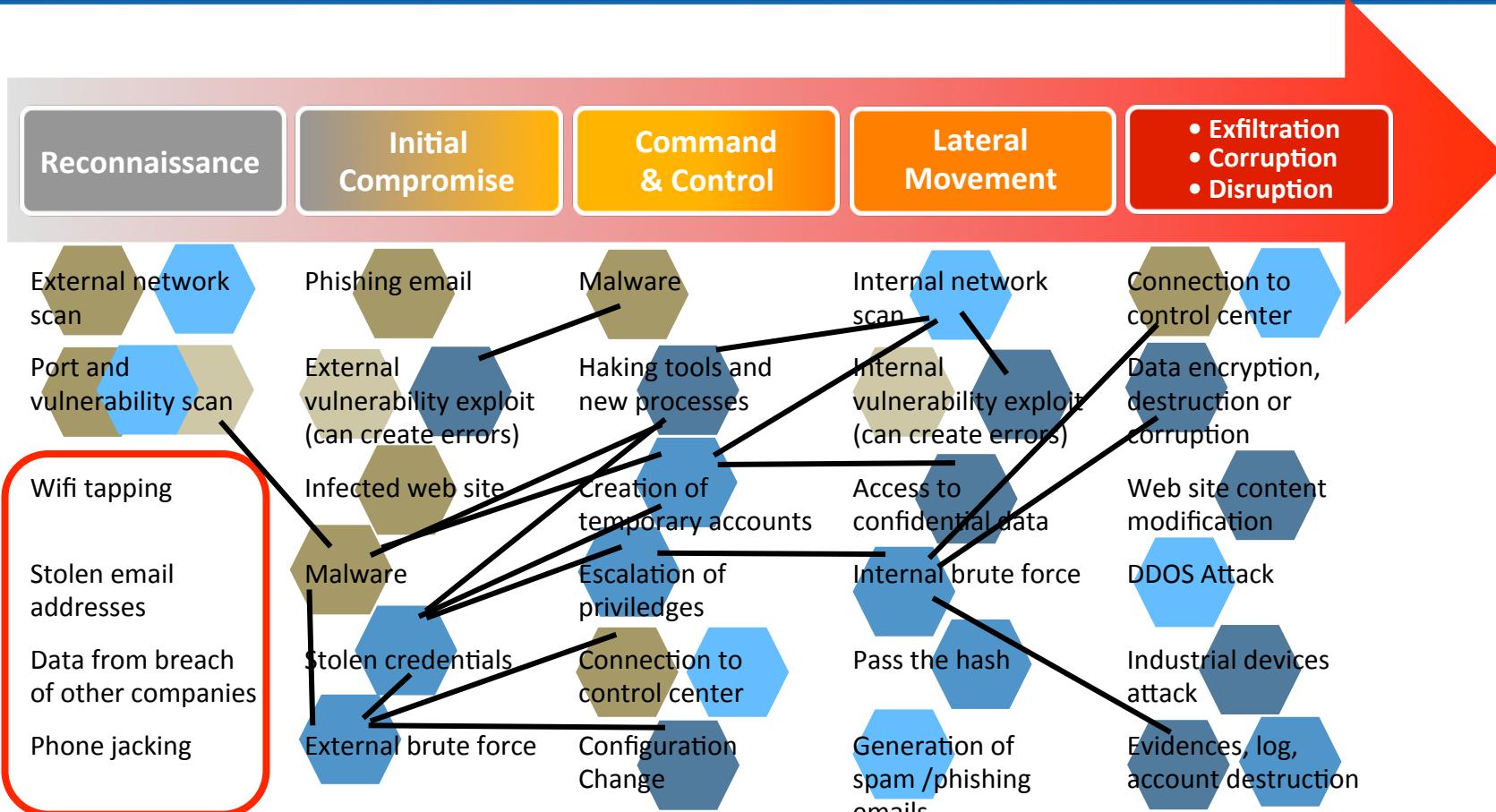
Generation of
spam /phishing
emails

Evidences, log,
account destruction

Vulnerability

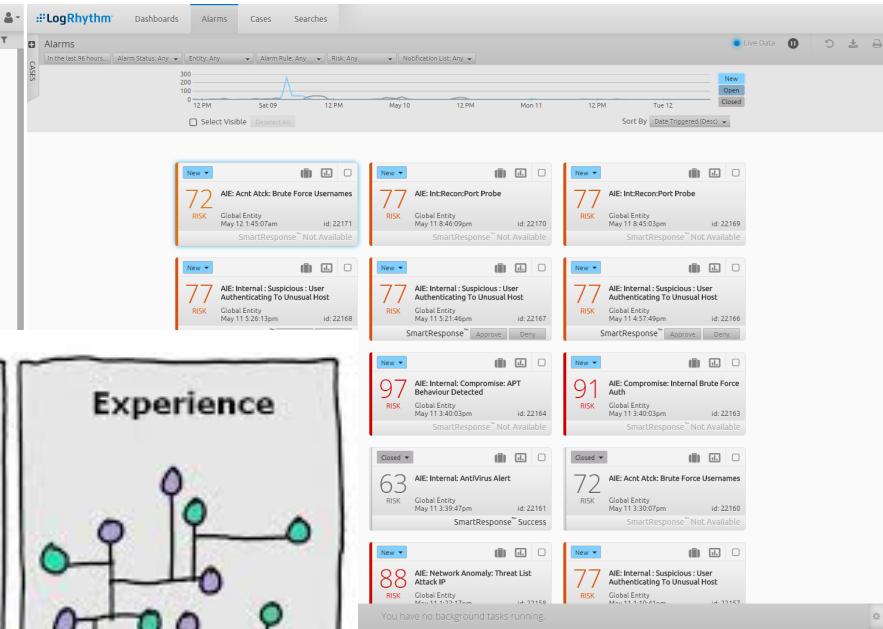
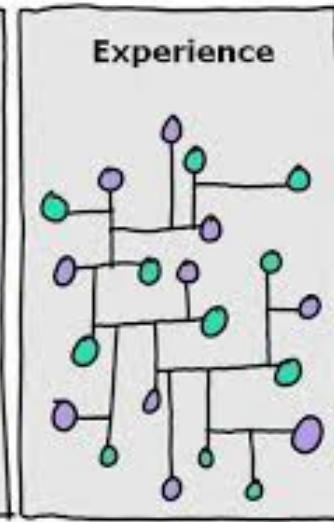
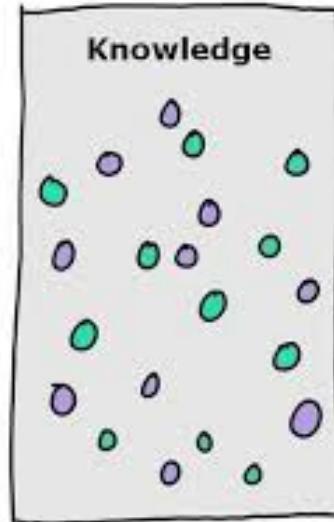
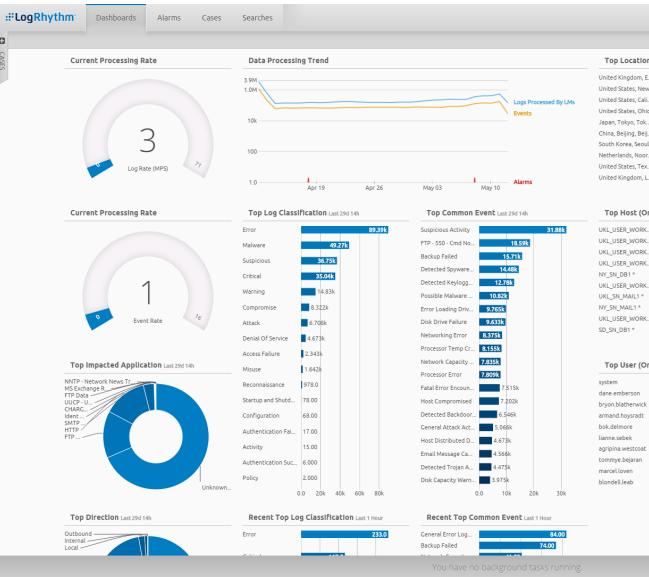
Holistic Machine data intelligence

LogRhythm®



Event vs Incident

LogRhythm®





Détection d'un incident potentiel et évaluation

Création du dossier et option de l'escalader en incident

Réponse si incident:

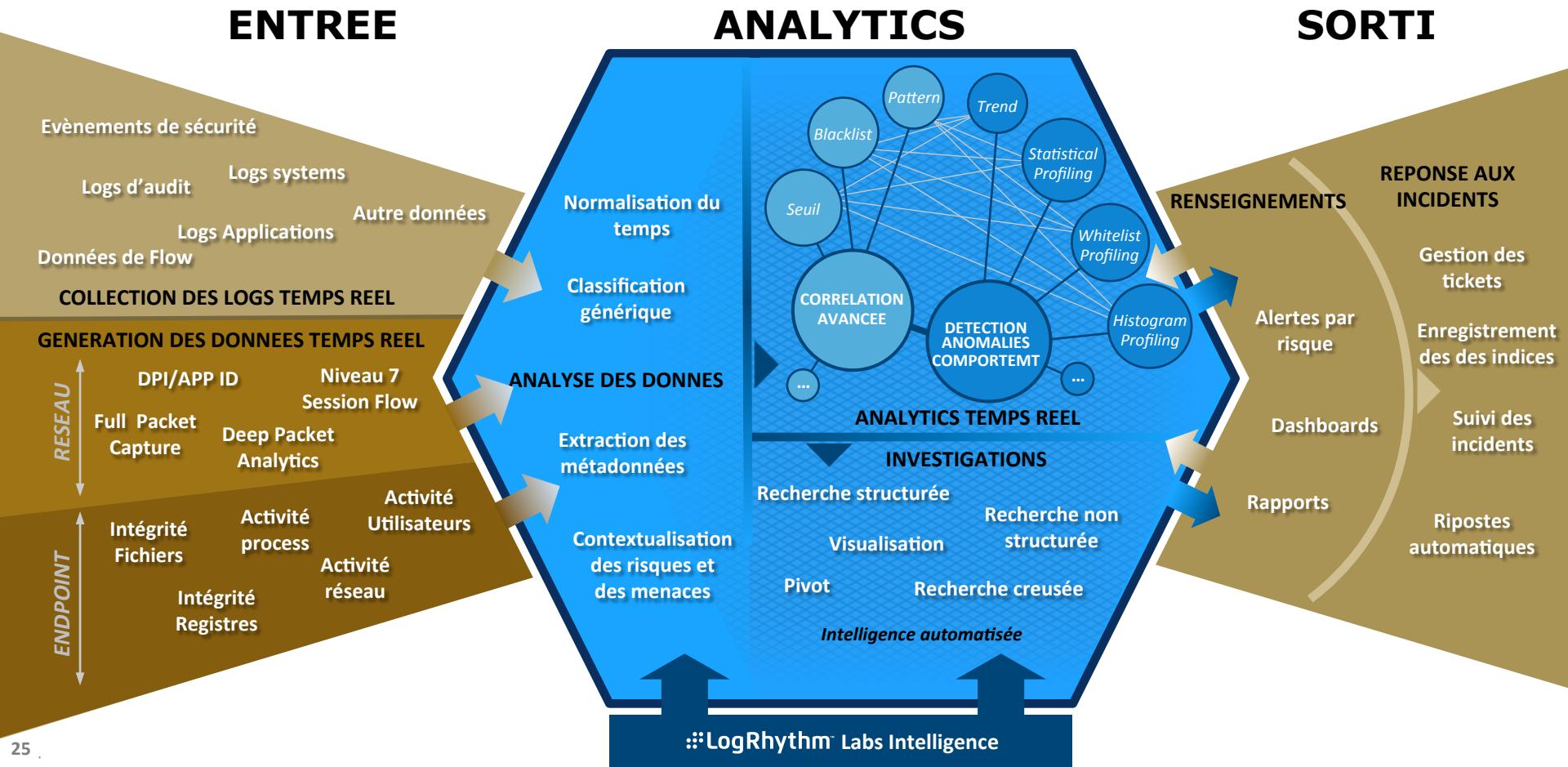
- Enquête
- Contrôle:
 - Désactivation du compte
 - Contrôle d'accès au réseau
 - Récupération des données forensiques
- Analyse
- Historique

Collaboration

Cloture du dossier

- Gestion d'incident intégrée (nouveau module)
- Appliances de 4^{ème} Génération: Plus de disque + Plus rapide
- Version 7
 - Elasticsearch (auparavant SQL server):
 - Plus rapide
 - Plus puissant
 - Recherches non structurées (Comme Splunk) et structurées
 - Meilleurs support des gros déploiements (+200K MPS)
 - Console Web améliorée
 - Réponses automatiques (SmartResponse) améliorées

Plateforme de “Security Intelligence” LogRhythm



Options de Déploiement

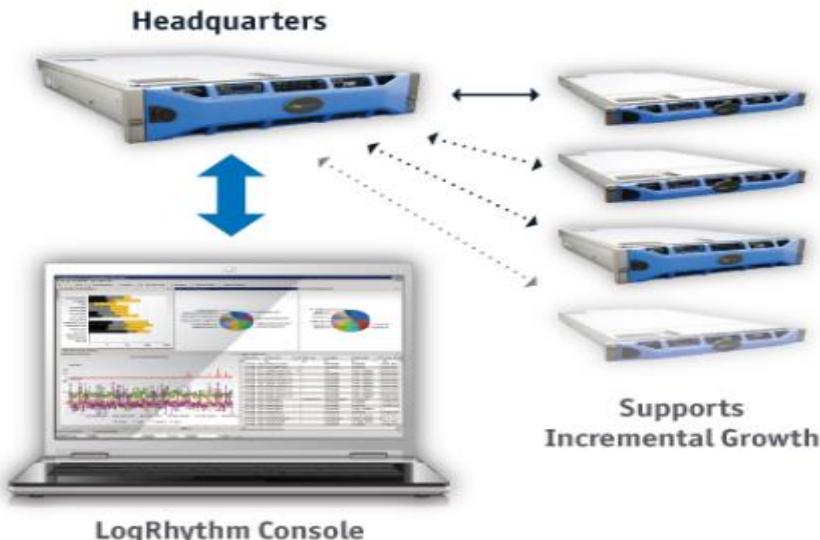
All-in-one (Appliance XM)

- Une Appliance Unique
- Déploiement simple
- Toutes les fonctions disponibles
- Solution évolutive



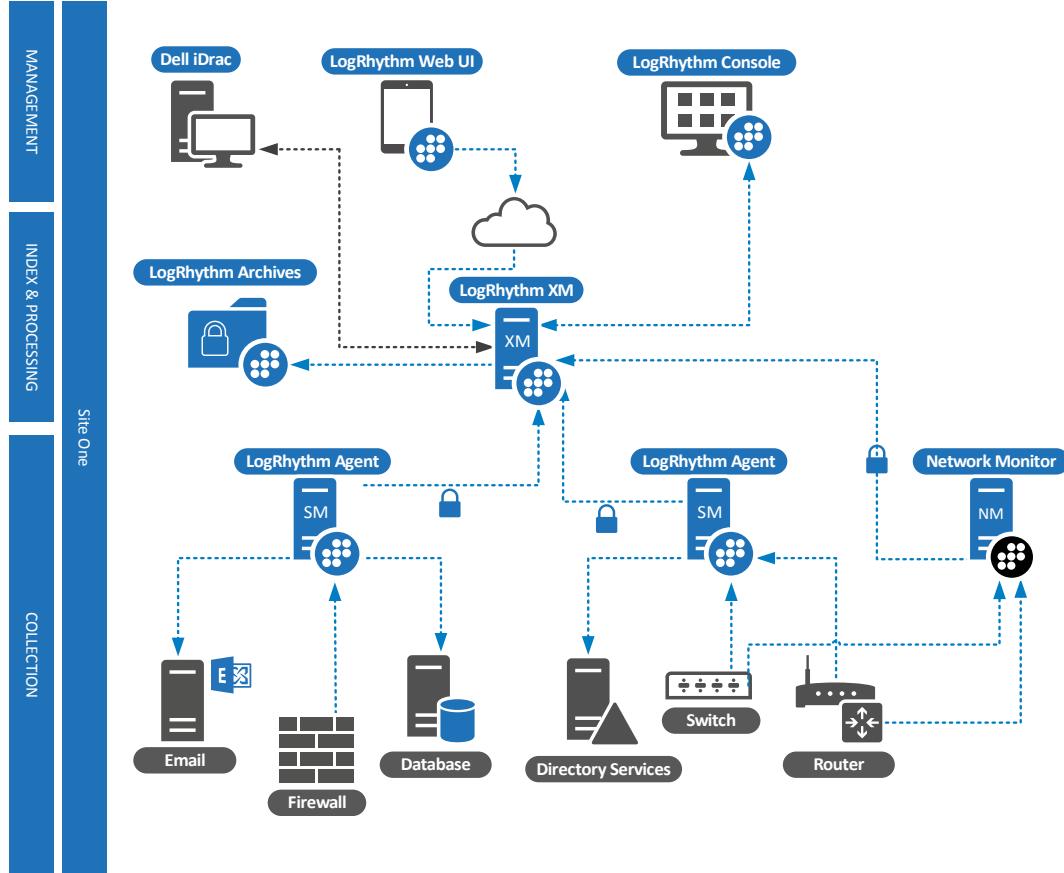
Appliances Dédiées, Software ou VM

- Management Centralisé
- Support pour Environnements distribués
- Solution hautement évolutive

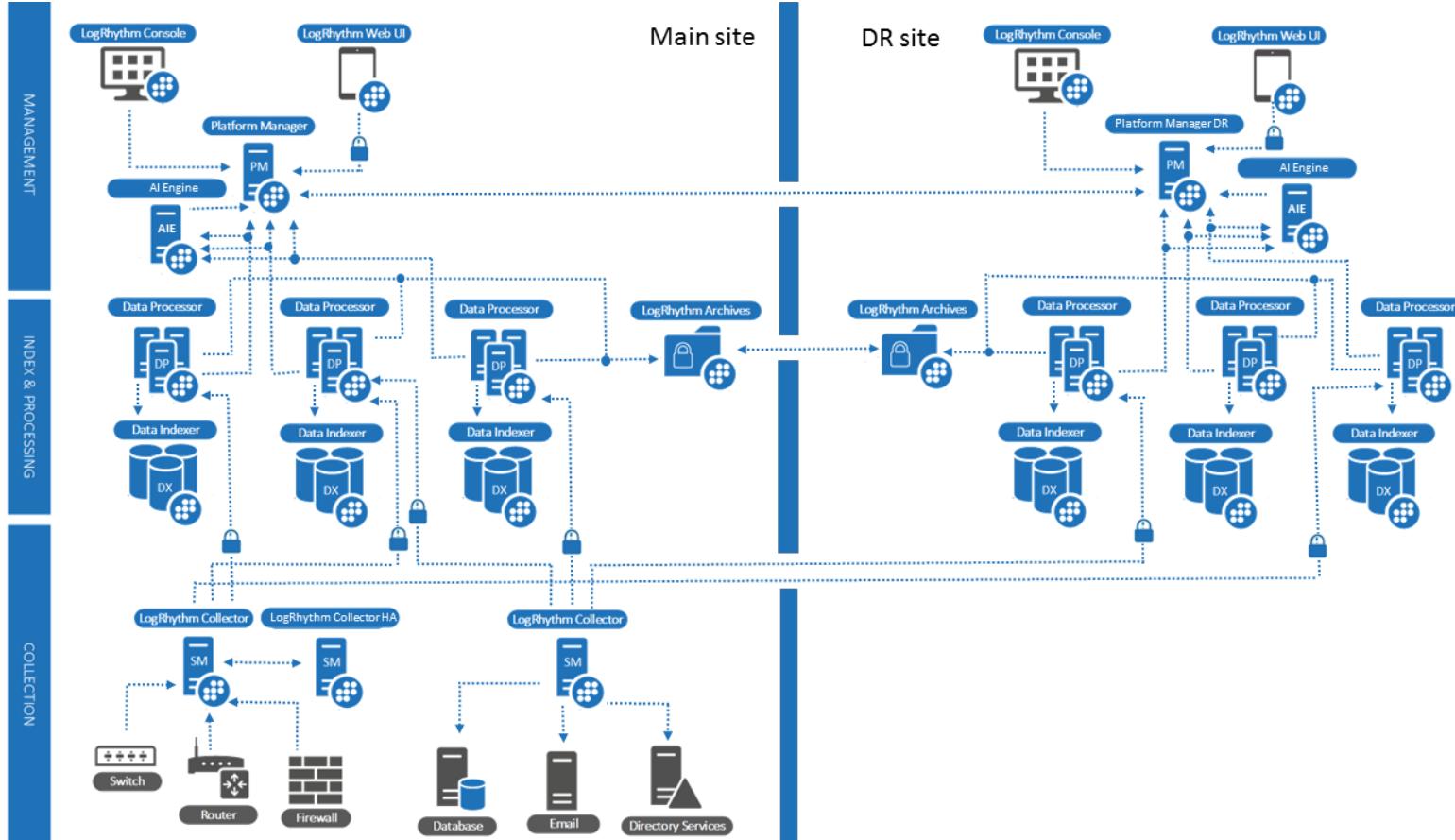


Architecture all in one

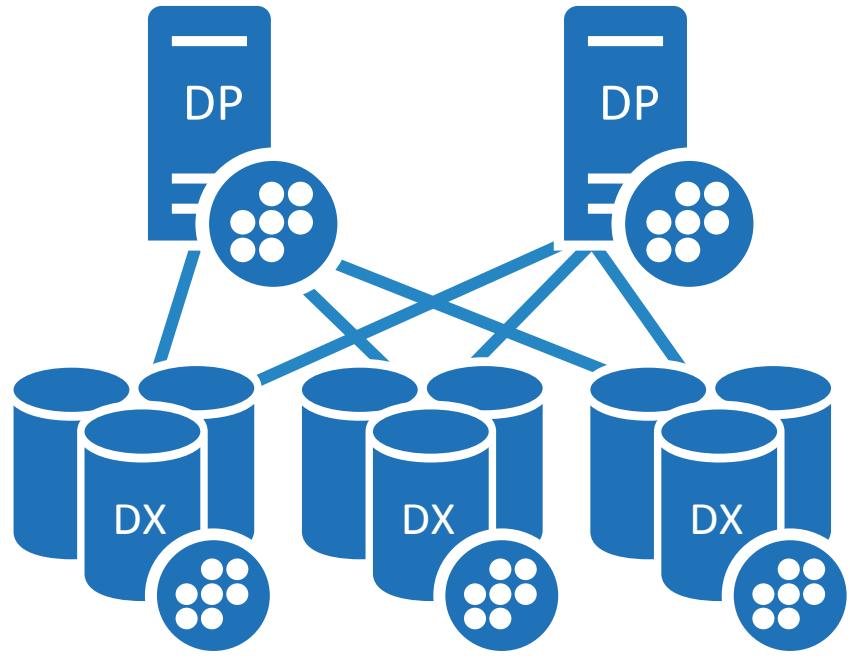
 LogRhythm®



Distributed Architecture with HA and DR



Data indexer architecture options



Clustered
Architecture



Pinned Architecture

Scalable architecture



Hardware Solution	Max Indexing	License Processing	AIE Processing	Total Log Storage (TB)	Log TTL (Days)	Event TTL (Days)
XM4300 (6 Cores, 1.6 TB Storage)	750	250	1 000	1.3	22	90
XM6400 (12 Cores 6.8 TB Storage)	3 000	1 000	5 000	7	36	90
XM6400 (12 Cores 6.8 TB Storage) 1 x SA3450 (6TB storage extension)	3 000	2 500	5 000	12	26	90
PM5400 (6 Cores 2.4TB Storage) or XM6450 1 x DP5300 (6 Cores 0.5 TB Storage) 1 x DX5300 (6 Cores 4.6 TB Storage) 1 x SA3350 (4TB storage extension)	5 000	5 000	10 000	12	21	90
PM5400 (6 Cores 2.4TB Storage) 2 x DP5300 (6 Cores 0.5 TB Storage) 2 x DX5300 (6 Cores 4.6 TB Storage) 2 x SA3350 (4TB storage extension)	10 000	10 000	10 000	25	21	90
PM7400 (16 Cores 7.3 TB Storage 15K RPM) 7 x DP7400 (16 Cores 1.4 TB Storage) 7 x DX7400 (12 Cores 12.5 TB Storage) 15 x SA7470 (6TB storage extension) 1 x AIE7400 (32 Cores 1 TB Storage)	105 000	70 000	75 000	171	30	90

Hardware options

	Appliance Lines	Max Archiving Rates	Max Processing Rates	Chassis	CPU Physical / Physical + Virtual (HT)	Memory (Expandable)	Internal Storage (Usable/Raw)	Expandable To (Usable/Raw)
ALL-IN-ONE (XM) (Includes PM, DP, DX, AIE)	4301	10,000 MPS	1,000 MPS	1U	6 Core / 12 Core	64 GB	1.36 TB/2.17 TB	25.25 TB/28.23 TB
	6400	25,000 MPS	5,000 MPS	2U	12 Core / 24 Core	128 GB	6.79 TB/8.14 TB	30.68 TB/34.20 TB
DEDICATED PLATFORM MANAGER (PM) (Includes AIE license)	5400	N/A	N/A	1U	6 Core / 12 Core	128 GB	2.44 TB/4.89 TB	15.48 TB/30.95 TB
	7400	>	N/A	2U	16 Core / 32 Core	128 (256) GB	7.33 TB/13.57 TB	26.89 TB/52.66 TB
DEDICATED DATA PROCESSOR (DP)	5300	10,000 MPS	5,000 MPS	1U	6 Core / 12 Core	64 GB	556 GB/1.08 TB	24.43 TB/27.14 TB
	7400		50,000 MPS	15,000 MPS	1U	16 Core / 32 Core	128 (256) GB	1.08 TB/2.17 TB
DEDICATED DATA INDEXER (DX)	5300	N/A	N/A	1U	6 Core / 12 Core	64 GB	4.62 TB/7.06 TB	52.40 TB/59.19 TB
	7400	>	N/A	2U	12 Core / 24 Core	128 (256) GB	12.2 TB/13.57 TB	83.87 TB/91.76 TB
DEDICATED AI ENGINE (AIE)	5400	N/A	30,000 MPS	1U	16 Core / 32 Core	128 (256) GB	1.08 TB/2.17 TB	N/A
	7400	N/A	75,000 MPS	1U	32 Core / 64 Core	256 (512) GB	1.08 TB/2.17 TB	N/A
DATA COLLECTOR (DC)	3300	N/A	N/A	1U	4 Core	16 GB	278 GB/556 GB	N/A
NETWORK MONITOR (NM)	3300	N/A	1 Gbps	1U	10 Core / 20 Core	64 GB	1.9 TB/3.8 TB	25.9 TB/28.9 TB
	5400	N/A	2.5 Gbps	2U	24 Core / 48 Core	128 GB	12.5 TB/13.9 TB	60 TB/66 TB
WEB APPLIANCE	3300	N/A	N/A	1U	8 Core / 16 Core	32 GB	556 GB/1.08 TB	N/A

Expertise Embarquée: Security Modules

- Sécurité de base
- Surveillance des menaces du réseau
- Surveillance des menaces des utilisateurs
- Surveillance des menaces des serveurs et des postes
- Services de renseignement des menaces open source, ou du « Threat Intelligence Ecosystem »
- Top 20 des Contrôles Critiques du SANS Institute
- Monitoring des utilisateurs privilégiés
- Reconnaissance des premiers indicateurs des APTs
- Analyse des “Honeypots”
- Protection contre les fraudes

User Threat Analytics Premium Suite AI Engine Rules

This section lists describes the AI Engine rules included in the suite, including any additional configuration notes.

Compromise: Brute Force Auth

Gaining access to an internal account is often the first step in a malicious actor's efforts to pilfer an organization. Because software frequently uses default logins and many users have inadequate passwords, this is an extraordinarily effective method (change your default passwords!). This rule detects a successful brute force authentication from an external source – it first tracks multiple failed authentication attempts from the same account, origin host, and impacted host. Then connects that with a following successful authentication.

Rule Block Summary	Rule Block Details	Rule Block Summary
Threshold Observed The Rule Block will signal when any threshold has been breached.	Data Source Log Manager Logs	Log Observed The Rule Block will signal when the specified threshold is breached.
Primary Criteria Authentication Failed and Direction Is External	Primary Criteria Authentication Failed and Direction Is External	Data Source Log Manager Logs
Log Sources All Log Sources	Log Sources All Log Sources	Classification Success
Group By Origin Host, Impacted Host	Group By Origin Host, Impacted Host	Group By Origin Host, Impacted Host
Thresholds Count >= 10		Thresholds All Log Sources

Log Sources

Minimum

» Active Directory or LDAP

Recommended

» Host Logs

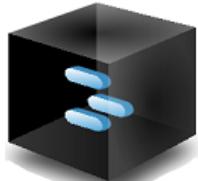
Knowledge Base Content

ID	Name
1	Compromise: Brute Force Auth

Actions

This rule fires when the same user account was seen failing authentication multiple times followed by an authentication success. In this case, it is vital to quickly contain the compromised account by disconnecting infected hosts, disabling the compromised account, and blocking the attacker's access – organizations should have an incident response plan for a compromise. Also, after stopping the active attack, forensics will need to be conducted to insure that an implant isn't hidden in the network, information wasn't stolen, or other accounts were compromised.

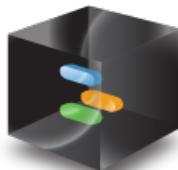
Scénarios de corrélation par Blocs



Log
Observé



Seuil
Observé



Valeur Unique
Observée



Valeur Unique
Pas Observée



Log
Pas
Observé



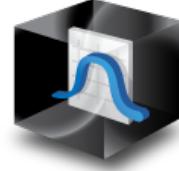
Seuil
Pas
Observé



Liste
Blanche



Tendance



Statistique



Console Web pour les analystes

LogRhythm

Dashboards Alarms Cases Searches

Current Case: Case Nicolas 1

P3

Evidence History

ALARMS

Stricher, Nicolas added an alarm Jan 7 2:40pm

New AIE: Internal: Compromise: APT Behaviour Detected > Global Entity Jan 7 12:06pm id: 13760 SmartResponse™ Not Available RISK 97

Stricher, Nicolas added an alarm Jan 7 2:40pm

New AIE: Ext:Avt Comp:Concurrent Auth From Multiple Locations > Global Entity Jan 7 12:25pm id: 13763 SmartResponse™ Approve Deny RISK 72

LOGS [view in analyzer](#)

Stricher, Nicolas added a set of logs Jan 6 4:29pm Search of nicolas.stricher logs (393 logs)

NOTES

Stricher, Nicolas added a note Jan 6 4:28pm

Add Note Add Logs New Case

Live Data

Logs, Events, Alarms by Day Past 30 Days

Logs Processed By LMs: 7.1M (Blue Line)

Events: 10k (Yellow Line)

Alarms: 100 (Red Line)

Dec 21 Dec 28 Jan 04

Direction Last 15d 3h

Internal Unknown

Top Log Classifications Last 15d 3h

Activity

Other Audit Policy Account De-Suspicious Access Start... Conf...

Authentication Local

Access Failure

Top Common Events Last 15d 3h

Event Type	Count
Registry Monitoring	49.53k
Access Object Fail...	45.39k
Database Table De...	34.24k
Registry Monitoring	30.84k
User Logon Failure ...	22.56k
User Logon Failure ...	7.480k
User Logon Failure ...	6.932k
Authentication Fail...	2.352k
File Monitoring Ev...	2.060k
File Monitoring Ev...	1.753k
File Monitoring Ev...	1.690k
Configuration Lo...	1.423k
Database Table Cr...	1.230k
Registry Monitorin...	1.192k
Process/Service St...	1.093k
Object Deleted/R...	1.024k
User Account Dele...	917.0
General Honeypot...	906.0
Software Installed	678.0
General File Monit...	417.0

Top Log Source Types Last 15d 3h

Source Type	Count
MS Event Log for ...	85.41k
LogRhythm Registr...	81.56k
UDLA - LRAudit	37.54k
LogRhythm File M...	6.100k
MS Event Log for ...	2.238k
Flat File - Kippo H...	1.121k
Flat File - Microsoft...	1.094k
MS Event Log for ...	1.083k
LogRhythm AI Eng...	1.074k
MS Event Log for ...	122.0

Top Impacted Hosts Last 15d 3h

Host	Count
PGBXC01*	971.0
MSSQLSERVER	196.0
Kerberos - Authent...	30.00
?/UDP	20.00
youtube	2.000
SSH - Secure Shell	1.000
tcp	1.000
pgbcx01	1.000
VGBWKS01*	1.000

Top Impacted Applications Last 15d 3h

Application	Count
MSSQLSERVER	971.0
Kerberos - Authent...	196.0
?/UDP	30.00
youtube	20.00
SSH - Secure Shell	2.000
tcp	1.000

Top Impacted Entities Last 15d 3h

Entity	Count
Global Entity	65.12k
Firewalls	30.56k
Linux	28.66k
SIEM	28.48k
local service	12.09k
system	4.539k
logrhythmwbeui	4.184k
network service	3.456k
administrator	3.224k
pgbcx01\$	2.927k

Top Origin Users Last 15d 3h

User	Count
PGBCX01*	33.48k
VGBWKS01*	18.15k
VGBWKS04*	12.87k
VGBWKS03*	12.86k
VGBWKS02*	10.11k
VGBEXC01*	9.660k
VGBDC01*	8.242k
VGBWKS06*	6.812k
VGBWKS05*	6.548k
VGBSRV01*	3.052k

Top Origin Hosts Last 15d 3h

Host	Count
PGBCX01*	33.48k
VGBWKS01*	18.15k
VGBWKS04*	12.87k
VGBWKS03*	12.86k
VGBWKS02*	10.11k
VGBEXC01*	9.660k
VGBDC01*	8.242k
VGBWKS06*	6.812k
VGBWKS05*	6.548k
VGBSRV01*	3.052k

Top Origin Countries Last 15d 3h

Country	Count
CXC-UK	65.12k
Windows	30.56k
System	28.66k
LogRhythm	28.48k
Network Service	12.09k
Administrator	4.539k
User	4.184k
LogRhythm Job Manager	3.456k
VGBWKS01\$	3.224k

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SSH - Secure Shell	1.000
tcp	1.000
pgbcx01	1.000
VGBWKS01*	1.000

Top Impacted Applications Last 15d 3h

Application	Count
MSSQLSERVER	971.0
Kerberos - Authent...	196.0
?/UDP	30.00
youtube	20.00
SSH - Secure Shell	2.000
tcp	1.000

Top Impacted Entities Last 15d 3h

Entity	Count
Global Entity	65.12k
Firewalls	30.56k
Linux	28.66k
SIEM	28.48k
local service	12.09k
system	4.539k
logrhythmwbeui	4.184k
network service	3.456k
administrator	3.224k
pgbcx01\$	2.927k

Top Origin Users Last 15d 3h

User	Count
PGBCX01*	33.48k
VGBWKS01*	18.15k
VGBWKS04*	12.87k
VGBWKS03*	12.86k
VGBWKS02*	10.11k
VGBEXC01*	9.660k
VGBDC01*	8.242k
VGBWKS06*	6.812k
VGBWKS05*	6.548k
VGBSRV01*	3.052k

Top Origin Hosts Last 15d 3h

Host	Count
PGBCX01*	33.48k
VGBWKS01*	18.15k
VGBWKS04*	12.87k
VGBWKS03*	12.86k
VGBWKS02*	10.11k
VGBEXC01*	9.660k
VGBDC01*	8.242k
VGBWKS06*	6.812k
VGBWKS05*	6.548k
VGBSRV01*	3.052k

Top Origin Countries Last 15d 3h

Country	Count
CXC-UK	65.12k
Windows	30.56k
System	28.66k
LogRhythm	28.48k
Network Service	12.09k
Administrator	4.539k
User	4.184k
LogRhythm Job Manager	3.456k
VGBWKS01\$	3.224k

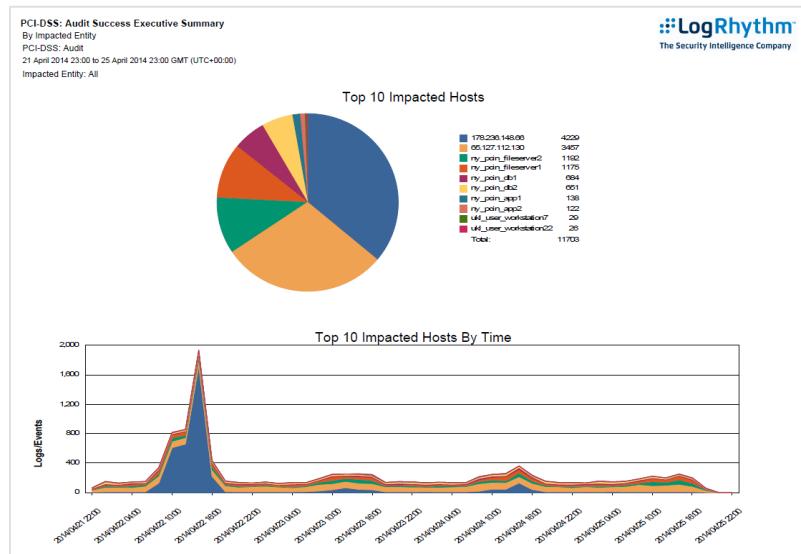
- PME:
 - Prix d'entrée plus élevé que les solutions de gestion de log
 - **Solution: Proposer la version logicielle et en vendant la valeur de LR**
- Grand comptes:
 - Petit éditeur par rapport aux principaux concurrents
 - Peu de références grand compte en France (Gemalto, AXA, Verifone)
 - **Solution: Parler du Gartner 2015 et du SANS Institute**
- Intégrateurs:
 - Relations existantes avec RSA, McAfee, HP, Splunk
 -

Automatisation et Assurance de la Conformité

- ISO 27001
- PCI –DSS
- SANS TOP 20 Critical Controls
- GPG 13



ISO/IEC 27001:2005



- NIST 800-53
- SOX
- HIPAA
- NERC
- NEI
- FISMA
- DoDI
- GCSX



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GOVERNMENT



ENERGY



- UK – Industrie aéronautique: 5.8M Dollars
- UK – Ministère infogéré: 1.3M Dollars
- Allemagne – Editeur: 270K Euros
- France - Organisation Internationale: 150K Euros
- Turquie – Institut financier: 105K Dollars
- Tunisie – Banque: 86K Euros

Leadership Validation



Industry Analysts

Gartner

A 2012-2015 LEADER
SIEM Magic Quadrant



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2013 Global SIEM/LM
Market Penetration Leadership Award



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