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Sangfor's Answer to Ransomware

When Ransomware Calls – Sangfor Answers



91% of cyber-attacks begin with a simple phishing email. Having a successful day phishing is easy, with new malicious malware samples produced daily, leading to a 363% yearly increase in ransomware attacks. While cyber-phishermen aren't always successful, even one success could cost a company an average of \$2.4M.

 <p>Huge Business impact And Economic Loss (Hard decryption)</p>	 <p>About 350,000 new malicious malware samples are created everyday</p>	 <p>Ransomware attacks within few minutes but it normally takes over 4 months to discover</p>
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Ransomware has adapted to bypass traditional firewall security and even next generation anti-virus software with ease, as we saw when WannaCry brought 150 countries and 200,000 machines to their knees in only 4 days. It's an epidemic, and Sangfor has the cure.

Example of Recent Attacks

<p>3rd August 2018</p> <p>Company A was exposed to Ransomware (Wanna Cry)</p> <ul style="list-style-type: none"> • Industry: Manufacturing • Loss: 2.60 billion USD • Fortune Global 500: 300+ <p><small>*Due to confidentiality issue, we are not allowed to divulge the customer name.</small></p>	<p>August 2017</p> <p>Company B was attacked by Ransomware (Petya)</p> <ul style="list-style-type: none"> • Industry: Shipping • Loss: 270 million USD • Fortune Global 500: 300+ <p><small>*Due to confidentiality issue, we are not allowed to divulge the customer name.</small></p>
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Why Do Ransomware Bypass Traditional Security Solution?

01

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Most of the organizations only have a single security product protection mainly based on detection of MD5 signature. Low-detection rate for unknown threats.
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Traditional security solutions are based on the combination of multi-products rather than real cloud, network and endpoint correlation.

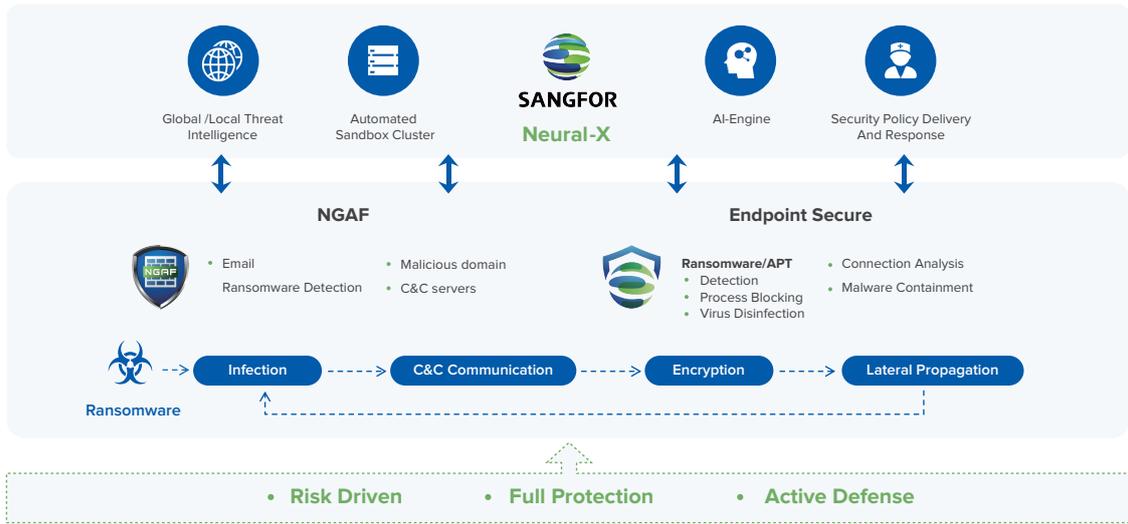
Sangfor Correlation Solution for Ransomware

02

A cocktail of Sangfor's NGAF, Endpoint Secure and Neural-X provide the risk-driven full protection and active defense against infection.

To be successful, ransomware must go through a full-attack cycle of infection, C&C communication, encryption and finally lateral propagation.

Neural-X is the brain's response to the ransomware attack, with global and local threat intelligence, automated sandbox cluster, AI-engine and security policy delivery & response. NGAF and Endpoint Secure work in tandem to provide the power of detection, analysis, blocking, containment and finally disinfection – giving users risk-driven, full protection and an active and vigorous defense.

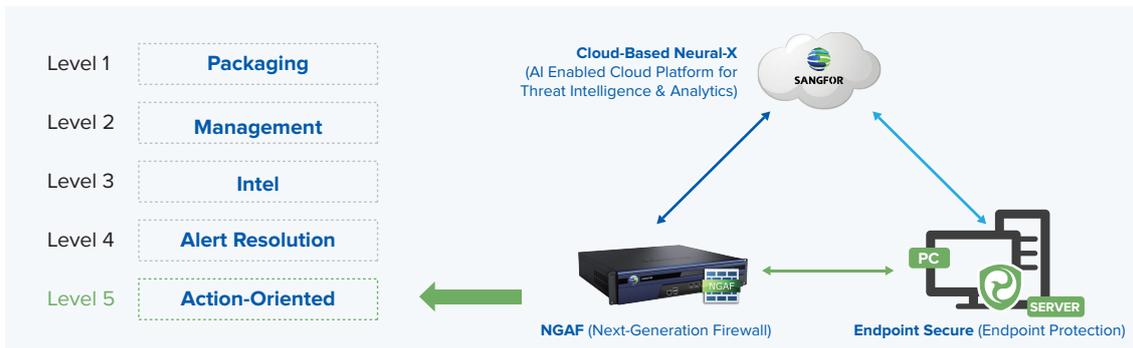


Solution Advantages

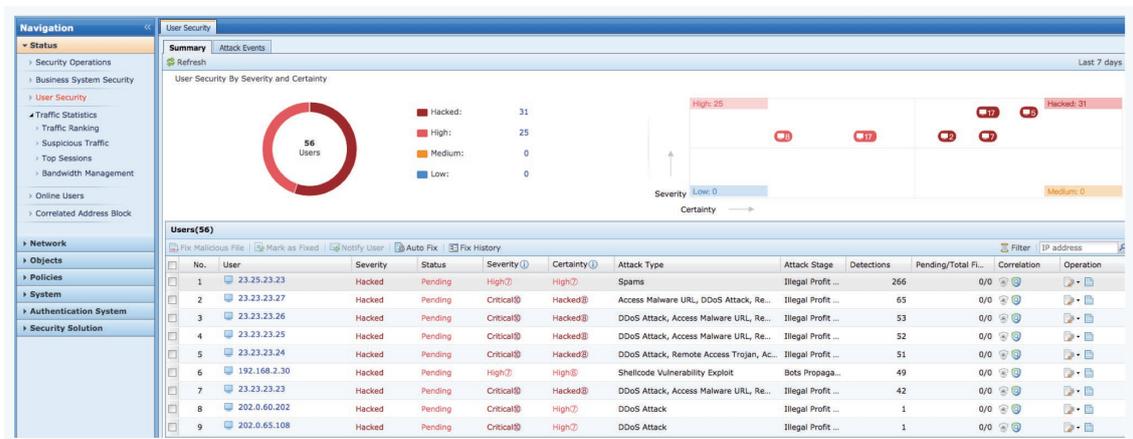
03

Leading Capability

Gartner differentiates between security products with 5-levels of correlation – and Sangfor NGAF & Endpoint Secure occupy the top level of protection, security and safety.



Fully Visibility For PC And Server Threats In Single Platform



Summary | Attack Events

Back to Summary | Refresh | Last 7 days

192.168.11.10 | Status: Monitoring | Severity: High | Certainty: High

Fix Malicious File | Correlate to EDR | Mark as Fixed | Fix History

Sangfor EDR found no malicious file. You may log in to EDR GUI and perform scan. | Fix Malicious File | View All Malicious Files

Detection at Gateway | Forensics on Endpoint | Analysis Results | Suggestions and status

TOP 1	TOP 2	TOP 3
fr.minexmr.com xmrig	sg.minexmr.com xmrig	de.minexmr.com xmrig
Track ← Access	Track ← Access	Track ← Access
2 Files	2 Files	2 Files
Non-system File lsass_exe.exe (Suspicious)	Non-system File lsass_exe.exe (Suspicious)	Non-system File lsass_exe.exe (Suspicious)
System File explorer.exe (Security Issue)	System File explorer.exe (Security Issue)	System File explorer.exe (Security Issue)
Observe	Observe	Observe
-	-	-
Details	Details	Details

Correlation Analysis and Traceability of Malicious Traffic & Endpoint Behavior

Go to EDR GUI - [Link] to view more.

Quarantine | Trust | All statuses | All severities

No.	File	Threat	File Path	Time Created	Suggestion	Action	Operation
Malicious Domain Names: pool.supportxmr.com							
1	lsass_exe.exe	Malicious Domain Names: pool.supportxmr.com	desktop\????\...	-	Observe	Pending	
2	lsass_exe.exe	Suspicious	c:\users\sangfor\desktop\????\...	-	Observe	Pending	
3	explorer.exe	Security Issue	c:\windows\explorer.exe	2010-11-21 11:2...	-	Pending	
Malicious Domain Names: fr.minexmr.com							
4	lsass_exe.exe	Suspicious	c:\users\sangfor\desktop\????\...	-	Observe	Pending	
5	lsass_exe.exe	Suspicious	c:\users\sangfor\desktop\????\...	-	Observe	Pending	
6	explorer.exe	Security Issue	c:\windows\explorer.exe	2010-11-21 11:2...	-	Pending	
Malicious Domain Names: de.minexmr.com							
7	lsass_exe.exe	Suspicious	c:\users\sangfor\desktop\????\...	-	Observe	Pending	
8	lsass_exe.exe	Suspicious	c:\users\sangfor\desktop\????\...	-	Observe	Pending	
9	explorer.exe	Security Issue	c:\windows\explorer.exe	2010-11-21 11:2...	-	Pending	
Malicious Domain Names: pool.minexmr.com							
10	lsass_exe.exe	Suspicious	c:\users\sangfor\desktop\????\...	-	Observe	Pending	
11	lsass_exe.exe	Suspicious	c:\users\sangfor\desktop\????\...	-	Observe	Pending	
12	explorer.exe	Security Issue	c:\windows\explorer.exe	2010-11-21 11:2...	-	Pending	

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Different Endpoints With The Same Malicious Domain Name/File Can Be Automatically Isolated & Blocked

Fix History

Manual Fix History | Automatic Fix History | Refresh | All

No.	Time	Host IP	Details	Type	Admin	Remark	Operati...
1	2019-10-18 16:22:08	192.168.11.10	Quarantine file (c:\windows\micr...	Quarantine File	admin	-	
2	2019-10-18 16:21:35	192.168.11.10	Quarantine file (c:\windows\micr...	Quarantine File	admin	-	
3	2019-10-08 19:05:49	192.168.11.10	Perform virus scan and removal...	Correlate to EDR	admin	-	

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Close



Customer A: Government

Country	Ransomware	Response Timeline	Sangfor Solution
China	WannaCry	Recover Back-Up (1 hour) Virus Type Confirmation and Infected File Isolation (30 mins) ES Virus Removal (2 hours)	NGAF + Endpoint Secure + SIP

Customer B: Education

Country	Ransomware	Response Timeline	Sangfor Solution
Malaysia	GandGrab V2.1	Recover Back-Up (5 mins with Sangfor HCI) Virus Type Confirmation and Infected File Isolation (30 mins) ES Virus Removal (2 hours)	NGAF + Endpoint Secure

Customer C: Enterprise

Country	Ransomware	Response Timeline	Sangfor Solution
UAE	Phobos	Virus Type Confirmation and Infected File Isolation (30 mins) ES Virus Removal (2 hours) Vulnerability Scanning (2 hours)	NGAF + Endpoint Secure

For more information on the most powerful response to the threat of ransomware available, contact Sangfor Technologies at www.sangfor.com – and make ransomware protection and response simpler, more secure and more valuable.