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Real Intrusions by Real Attackers, The Truth Behind the Intrusion

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Thursday, October 31, 2024

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CASE ARTIFACTS

adfind

bumblebee

cobaltstrike

Meterpreter

BumbleBee: Round Two

September 26, 2022

In this intrusion from May 2022, the threat actors used <u>BumbleBee</u> as the initial access vector. BumbleBee has been <u>identified</u> as an initial access vector utilized by <u>several ransomware affiliates</u>.

In this intrusion, we see the threat actor use BumbleBee to deploy Cobalt Strike and Meterpreter. The threat actor then used RDP and SMB to move around the network looking at backup systems and file shares before being evicted from the network.

Case Summary

The intrusion began with the delivery of an ISO file containing a LNK file and a BumbleBee payload in the form of a hidden DLL file. A user on a workstation mounted the ISO file and executed the LNK file, running the Bumblebee payload.

Around 15 minutes after the execution of BumbleBee, multiple processes were spawned with the goal of injecting Meterpreter into each of them. After the threat actors gained access with Meterpreter, they began conducting reconnaissance on the workstation and network, including querying domain controllers, mapping domain joined computers, enumerating Active Directory trusts, and listing Domain Admin accounts. All of this first wave of discovery relied on built in Windows utilities like nltest, arp, net, ping, nbtstat, and nslookup.

BumbleBee executed under a user with local administrator privileges on all workstations in the environment. At around six hours after initial execution, we observed a new process created that was then used to host a Cobalt Strike beacon, from the same command and control server observed in a prior BumbleBee case. This beacon reprised discovery activity, but also cut a common command short net user /dom instead of /domain, whether from keyboard laziness or a trick to tripup detections. The threat actor then used their access to execute procdump via a remote service creation with the intention of dumping credentials from LSASS from an adjacent workstation on the network.

Next, the threat actors moved laterally via RDP to a server. A new local user, sql_admin, was created and added to the local administrator's group and AnyDesk remote access software was installed. Through the AnyDesk session, the threat actor was observed connecting to a file share and accessing multiple documents related to cyber insurance and spreadsheets with passwords.

A second round of enumeration was observed on the beachhead using AdFind, which was executed via the Cobalt Strike beacon on the system. Following this second round of enumeration, the threat actor moved latterly to a server hosting backups, via RDP and interacted with the backup console. From the backup system, the threat actors also opened internet explorer and attempted to load the environment's mail server, likely checking for Outlook Web Access.

A third round of enumeration, this time taking place from the first lateral server host, was observed via a script named '1.bat' that would ping all computers in the environment. Following this third round of enumeration the threat actors were evicted from the environment and no further impact was observed.

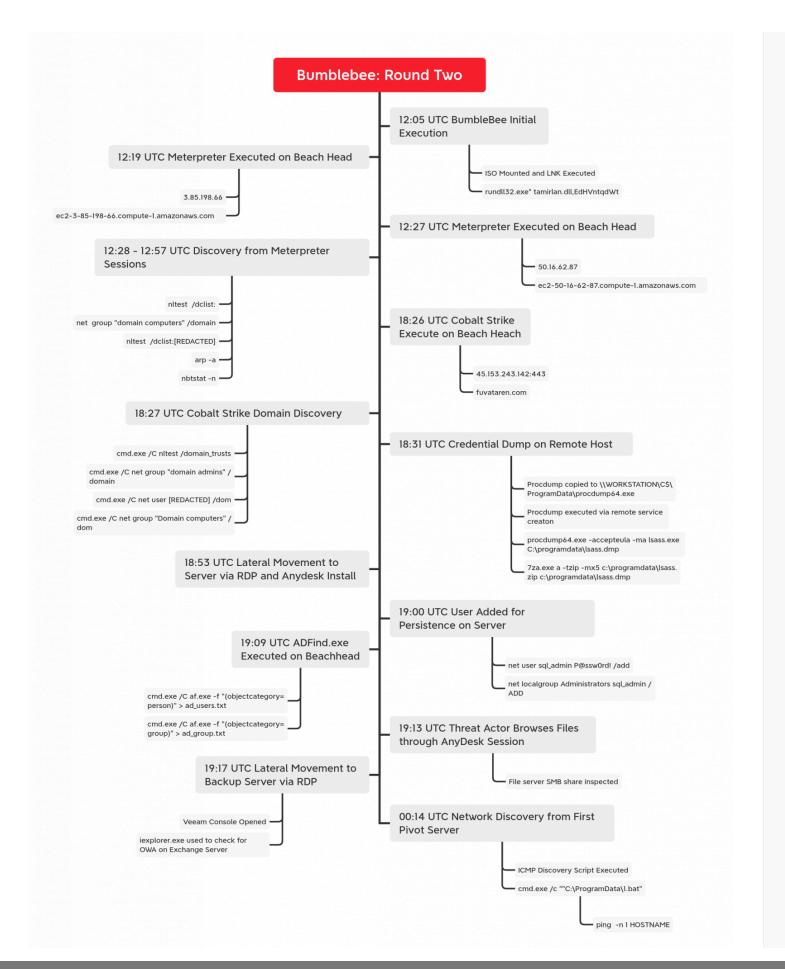
We assess with medium confidence this intrusion was related to pre-ransomware activity due to the tool set and techniques the actor displayed.

Services

We offer multiple services including a <u>Threat Feed service</u> which tracks Command and Control frameworks such as Cobalt Strike, BumbleBee, Covenant, Metasploit, Empire, PoshC2, etc. More information on this service and others can be found <u>here</u>.

We also have artifacts and IOCs available from this case such as pcaps, memory captures, files, event logs including Sysmon, Kape packages, and more, under our <u>Security Researcher and Organization</u> services.

Timeline



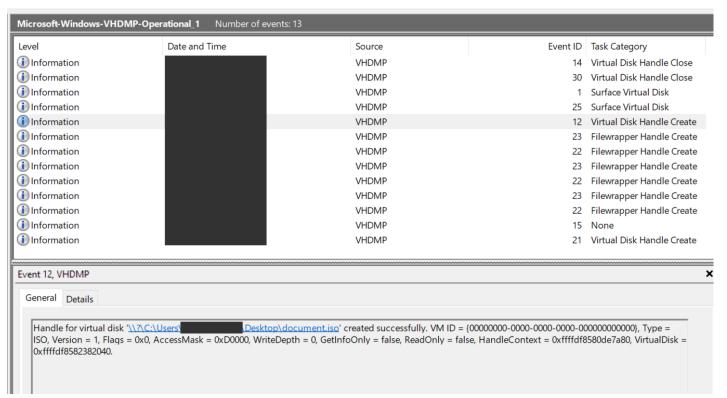
Analysis and reporting completed by <a><u>@MetallicHack</u>, <a><u>@iiamaleks</u> & <a><u>@svch0st</u>

Initial Access

The BumbleBee malware has been following the trend of using the effective combination of utilizing an .iso image containing a .lnk and .dll file. We have observed the same behavior with other major malware distributors in previous reports:

- IcedID <u>Stolen Images Campaign Ends in Conti Ransomware</u>
- BazarLoader <u>Diavol Ransomware</u>

Using the event log, "Microsoft-Windows-VHDMP-Operational.evtx", we can quickly find when the user mounted the .iso.



Upon clicking the LNK file the BumbleBee payload was executed.



Execution

Following the user mounting the .iso file, they clicked on a .lnk file documents.1nk. As noted in previous <u>reports</u>, the .dll is hidden from the user unless they display hidden items in explorer like so:

The .lnk contains instructions to execute a specific exported function with the BumbleBee DLL file.

When the .lnk was doubled clicked by the user, the BumbleBee malware tamirlan.dll was executed:

C:\Windows\System32\rundl132.exe tamirlan.dll,EdHVntqdWt

The output of <u>LECmd.exe</u>, when used ondocuments.1nk, provided additional context to where and when this .lnk file was created:

```
>> Tracker database block
Machine ID: user-pc
MAC Address: 9a:5b:d6:3e:47:ec
MAC Vendor: (Unknown vendor)
Creation: <REDACTED DATE>
```

Approximately 5 seconds after execution, the rundl132.exe process contacted the IP 154.56.0.221. More information on this traffic is covered in the Command and Control section below.

An interesting tactic of note, was the use of WMI and COM function calls to start the process, used to inject into. The BumbleBee loader uses WMI to start new process by calling COM functions to create a new process. Below you can see the COM instance creation followed by defining the WMI namespace and WMI object being created – "Win32_Process".

Bumb two/	leBee: Round Two –	The DFIR Report -	31/10/2024	17:49 https://thed	firreport.com/2	2022/09/26/bumb	lebee-round-
	Analysis of the load injecting the supplie		ction of the	malware choose	es 1 of 3 targe	et processes be	fore

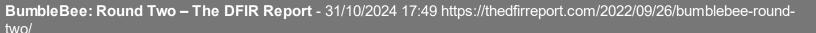
```
C:\Program Files\Windows Mail\wabmig.exe
C:\Program Files\Windows Mail\wab.exe
C:\Program Files\Windows Photo Viewer\ImagingDevices.exe
```

This resulted in new processes not being a child of BumbleBee, but rather WmiPrvSE.exe.

In this intrusion, an instance of C:\Program Files\Windows Photo Viewer\ImagingDevices.exe was created and accessed by the BumbleBee rundll32.exe process. Shortly after this interaction, the process started communicating to a Meterpreter C2 3.85.198.66. This process spawned cmd.exe and several typical discovery commands that are covered in more detail below.

The second process, was spawned the WMI technique was an instance of C:\Program Files\Windows Mail\wabmig.exe. This process was used to host both a session to another Meterpreter C2 50.16.62.87 and a Cobalt Strike C2 server 45.153.243.142, which was then used to conduct the majority of additional activity including credential dumping and discovery exercises highlighted below. The pivot to using Cobalt Strike began around 6 hours after the execution of the BumbleBee loader.

BumbleBee: R two/	Round Two – T	he DFIR Report -	31/10/2024	17:49 https://thedf	firreport.com/2	022/09/26/bumb	olebee-round-



Persistence

A new local administrator user was created on a server to facilitate persistence on the machine. The user account was observed to be accessed via an AnyDesk session on the same machine.

```
C:\Windows\System32\cmd.exe
  → net user sql_admin P@ssw0rd! /add
  → net localgroup Administrators sql_admin /ADD
```

In addition, AnyDesk was installed as a service:

Defense Evasion

The BumbleBee loader itself uses several defense evasion and anti-analysis techniques. As detailed in the Execution section, the use of WMI to spawn new processes is a known technique to evade any parent/child process heuristics or detections.

Anti-Analysis

Once the malware is unpacked, it becomes quite apparent to what the malware author(s) were looking for—

• Known malware analysis process names running:

tWC	
	Π

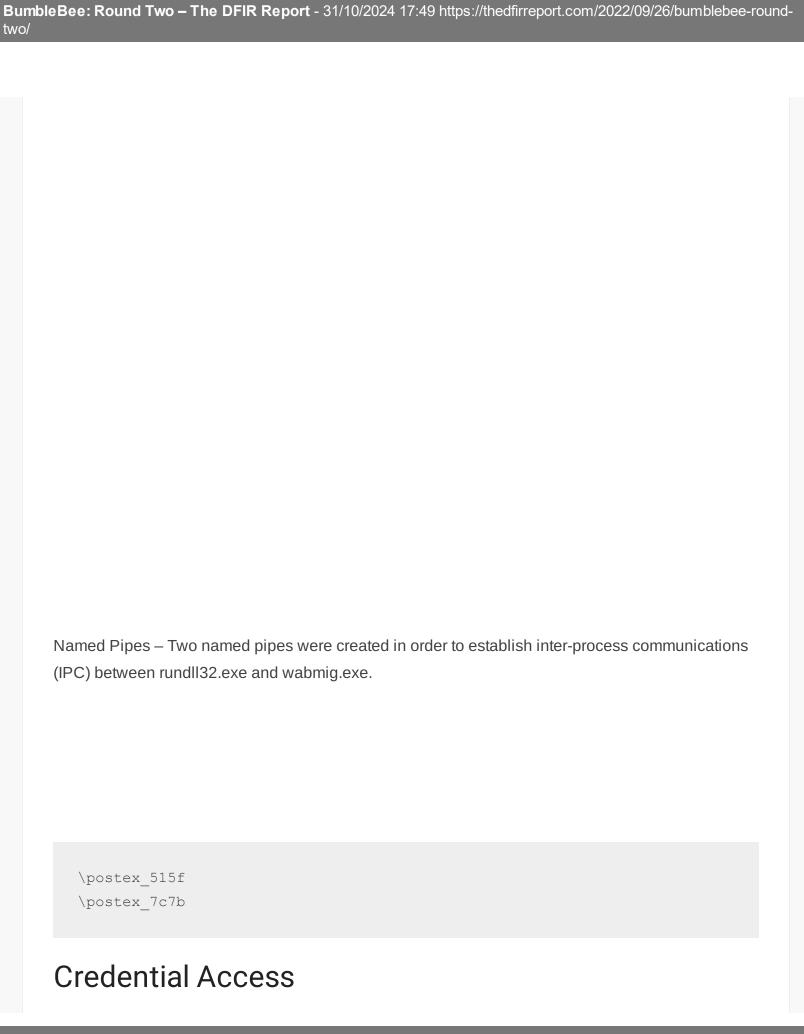
BumbleBee: Round Two - The DFIR Report - 31/10/2024 17:49 https://thedfirreport.com/2022/09/26/bumblebee-round-

BumbleBee: R two/	Round Two – T	he DFIR Report -	31/10/2024	17:49 https://thedf	firreport.com/2	022/09/26/bumb	olebee-round-

Bum two/	bleBee: Round	Two – The DFIR Report	- 31/10/2024 17	:49 https://thedfirre	port.com/2022/09/26	s/bumblebee-round-
	Known	sandbox usernames (S	forry if your nan	ne is Peter Wilsor	n, no malware for y	ou 😟):
		· ·			,	,

Bur two	mbleBee: Round Two – T	he DFIR Report - 3	1/10/2024 1	7:49 https://thed	dfirreport.com/20	022/09/26/bumble	bee-round-
	 Specific Virtual example: 	ization Software fil	es on disk	and registry ke	eys (Virtual Bo	x, Qemu, Paralle	els),

Bumble two/	Bee: Round Two –	The DFIR Report -	31/10/2024	17:49 https://thedfir	report.com/2022/0	09/26/bumblebee-	round-
	5						
	Process Injection						
	Create Remote Thiexecute code in rur	read – The malwar ndll32.exe.	e used the v	win32 function Cre	eateRemoteThre	ead in order to	



ProcDump

A remote service was created on one of the workstations in order to dump Isass.

Event 7045 from Service Control Manager

```
C:\programdata\procdump64.exe -accepteula -ma lsass.exe
C:\programdata\lsass.dmp
```

Discovery

The first discovery stage includes TTPs that we have seen in multiple cases, such as trusts discovery, domain admin group discovery, network discovery and process enumeration.

```
C:\Program Files\Windows Mail\wabmig.exe

→ C:\Windows\system32\cmd.exe /C ipconfig /all

→ C:\Windows\system32\cmd.exe /C ping -n 1 <REDACTED_DOMAIN_NAME>

→ C:\Windows\system32\cmd.exe /C nltest /dclist:

→ C:\Windows\system32\cmd.exe /C nltest /domain_trusts

→ C:\Windows\system32\cmd.exe /C net group "domain admins" /domain

→ C:\Windows\system32\cmd.exe /C tasklist /v /s <REDACTED_IP>
```

AdFind

AdFind.exe was renamed to af.exe and was used by threat actors in order to enumerate AD users, computers, OU, trusts, subnets and groups.

Lateral Movement

The threat actor was observed moving via RDP throughout the network with a Domain Admin account.

/ O		
	As mentioned in Credential Access, the threat actor used remote services to execute commands on	
	remote hosts.	
	SMB was used to transfer the various tools laterally, as needed in the environment, like	
	procdump.exe and AnyDesk executables.	

BumbleBee: Round Two - The DFIR Report - 31/10/2024 17:49 https://thedfirreport.com/2022/09/26/bumblebee-round-

Bumb two/	leBee: Round Two –	The DFIR Report -	31/10/2024	17:49 https://thed	dfirreport.com/2	022/09/26/bumb	lebee-round-
	Collection						
	The threat actor acc was accessed throu					erver. The SMB	share
	The Isass dump file	e ran remotely, was	copied to tl	ne beachhead t	hrough the ad	min share <i>C\$.</i>	
	After being copied,	the file was zipped	l using 7za.	exe (7-zip), in p	reparation for	exfiltration.	

```
C:\Program Files\Windows Mail\wabmig.exe
  → C:\Windows\system32\cmd.exe /C copy \\
<REMOTE_WORKSTATION>\C$\ProgramData\lsass.dmp c:\programdata\lsass.dmp
  → C:\Windows\system32\cmd.exe /C 7za.exe a -tzip -mx5
c:\programdata\lsass.zip c:\programdata\lsass.dmp
```

Command and Control

BumbleBee

```
154.56.0.221:443
64.44.101.250:443
JA3: c12f54a3f91dc7bafd92cb59fe009a35
JA3s: 76c691f46143bf86e2d1bb73c6187767
Certificate:
[ac:18:a0:22:b2:ef:65:c8:85:5e:1f:eb:f5:35:23:28:89:3a:5d:f9]
Not Before: 2022/05/19 07:40:24 UTC
Not After: 2023/05/19 07:40:24 UTC
Issuer Org: Internet Widgits Pty Ltd
Subject Org: Internet Widgits Pty Ltd
Public Algorithm: rsaEncryption
Certificate:
[0f:a6:76:b0:de:4c:f6:5e:a8:35:60:94:60:69:2c:2c:9c:cb:11:5c]
Not Before: 2022/05/19 07:48:30 UTC
Not After: 2023/05/19 07:48:30 UTC
Issuer Org: Internet Widgits Pty Ltd
Subject Org: Internet Widgits Pty Ltd
Public Algorithm: rsaEncryptiion
```

Meterpreter

```
ec2-3-85-198-66.compute-1.amazonaws.com
3.85.198.66:443
JA3: ce5f3254611a8c095a3d821d44539877
JA3s: ec74a5c51106f0419184d0dd08fb05bc
Certificate: [e5:a3:1d:28:ee:34:4f:9d:99:b8:a9:6e:b4:a9:d0:1f:63:43:3c:ac
1
Not Before: 2021/05/03 23:37:39 UTC
Not After: 2027/05/02 23:37:39 UTC
Issuer Org: Stracke, Lakin and Windler
Subject Common: stracke.lakin.windler.net
Subject Org: Stracke, Lakin and Windler
Public Algorithm: rsaEncryption
Certificate: [84:38:01:51:ba:46:74:89:b3:2a:67:57:b7:a1:4a:5b:49:4a:b9:03
Not Before: 2020/03/19 06:49:58 UTC
Not After: 2026/03/18 06:49:58 UTC
Issuer Org: Reilly-Carroll
Subject Common: reilly.carroll.com
Subject Org: Reilly-Carroll
Public Algorithm: rsaEncryption
ec2-50-16-62-87.compute-1.amazonaws.com
50.16.62.87:443
JA3: ce5f3254611a8c095a3d821d44539877
JA3s: ec74a5c51106f0419184d0dd08fb05bc
Certificate:
[6c:0e:6d:6e:d8:06:92:c6:9a:13:2a:ee:d7:8c:9d:15:63:5e:e9:f2]
Not Before: 2020/09/03 16:14:07 UTC
Not After: 2024/09/02 16:14:07 UTC
```

```
Issuer Org: Jerde-Kreiger
Subject Common: jerde.kreiger.info
Subject Org: Jerde-Kreiger
Public Algorithm: rsaEncryption
```

Cobalt Strike

This C2 server was observed in a previous **BumbleBee case**.

```
https://fuvataren.com
45.153.243.142:443

JA3: a0e9f5d64349fb13191bc781f81f42e1

JA3s: ae4edc6faf64d08308082ad26be60767

Certificate:
[6c:54:cc:ce:ca:da:8b:d3:12:98:13:d5:85:52:81:8a:9d:74:4f:fb]
Not Before: 2022/04/15 00:00:00 UTC
Not After: 2023/04/15 23:59:59 UTC
Issuer Org: Sectigo Limited
Subject Common: fuvataren.com [fuvataren.com , www.fuvataren.com]
Public Algorithm: rsaEncryption
```

Configuration

```
"beacontype": [
   "HTTPS"
],
   "sleeptime": 5000,
   "jitter": 24,
   "maxgetsize": 1398708,
```

```
"spawnto": "AAAAAAAAAAAAAAAAAAAAAA==",
 "license id": 1580103814,
 "cfg caution": false,
 "kill date": null,
 "server": {
   "hostname": "fuvataren.com",
   "port": 443,
   "publickey":
"MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBqQC5eYxmuxksHBu5Hqtk11PJye1th52fYvmU
XmFrL1vEIQs9+B5NI7a6bHbSHSRN1hRJN2VQ9iwpF/11IFitmWKEbFIErjX1YCy1/1Eg+EawN
412ReZ9lz1A9wIDUtQb8fAFYRCSn72Gzb+Pax1VKLt4Kx3QJrpduOhx4q4rdvahPQIDAQABAA
=
 },
 "host header": "",
 "useragent header": null,
 "http-get": {
   "uri": "/rs.js",
   "verb": "GET",
   "client": {
     "headers": null,
     "metadata": null
   "server": {
     "output": [
       "print",
       "prepend 600 characters",
      "base64",
       "mask"
    ]
 },
 "http-post": {
   "uri": "/en",
   "verb": "POST",
   "client": {
     "headers": null,
     "id": null,
```

```
"output": null
   }
 },
 "tcp frame header":
AAAAAAAAAAAAAAAAAAAAAAAAA
 "crypto scheme": 0,
 "proxy": {
   "type": null,
   "username": null,
   "password": null,
   "behavior": "Use IE settings"
 "http post chunk": 0,
 "uses cookies": true,
 "post-ex": {
   "spawnto x86": "%windir%\\syswow64\\rundll32.exe",
   "spawnto x64": "%windir%\\sysnative\\rundll32.exe"
 },
 "process-inject": {
   "allocator": "VirtualAllocEx",
   "execute": [
     "CreateThread",
     "CreateRemoteThread",
     "RtlCreateUserThread"
   ],
   "min alloc": 11977,
   "startrwx": false,
   "stub": "tUr+Aexqde3zXhpE+L05KQ==",
   "transform-x86": [
     "prepend '\\x90\\x90\\x90\\x90\\x90'"
   ],
   "transform-x64": [
     "prepend '\\x90\\x90\\x90\\x90\\x90\\x90'"
   ],
```

```
"userwx": false
 },
 "dns-beacon": {
   "dns idle": null,
   "dns sleep": null,
   "maxdns": null,
  "beacon": null,
   "get A": null,
   "get AAAA": null,
   "get TXT": null,
   "put metadata": null,
  "put output": null
 },
 "pipename": null,
 "smb frame header":
AAAAAAAAAAAAAAAAAAAAAAAAAAA.=",
 "stage": {
  "cleanup": true
 },
 "ssh": {
  "hostname": null,
  "port": null,
  "username": null,
  "password": null,
  "privatekey": null
```

AnyDesk

AnyDesk was installed to facilitate interactive desktop command and control access to a server in the environment.

Reviewing the <u>ad_svc.trace logs</u> from Anydesk located in %programdata%\AnyDesk reveal the logins originating from 108.177.235.25. This was again the same IP observered in the prior

Bumblebee case.

```
info REDACTED 19:07:21.173 gsvc 1160 408 24 anynet.any_socket - Logged in fr
info REDACTED 19:27:45.255 gsvc 1160 408 41 anynet.any_socket - Logged in fr
```

The Client-ID observed in the logs was 892647610

```
info REDACTED 18:56:00.723 lsvc 5924 5928 2 anynet.connection_mgr - New user
```

Exfiltration

No exfiltration methods were observed beyond the established command and control channels, which can be assessed as likely used to take data like the Isass dump out of the network.

Impact

The threat actors were evicted from the network before any further impact.

Indicators

Atomic

```
BumbleBee

154.56.0.221:443

64.44.101.250:443

103.175.16.117:443

Cobalt Strike

https://fuvataren.com

45.153.243.142:443
```

```
Meterpreter 50.16.62.87:443 3.85.198.66:443
```

Computed

```
document.iso
f4235fde77119ac772a2730d55c49c54
a250adaf3d5a5c2cd4d5ad4390e4cecbe00b3dd7
11bce4f2dcdc2c1992fddefb109e3ddad384b5171786a1daaddadc83be25f355

documents.lnk
fe0a99334486dcd2fcb6ec7a79163524
7aca51b571005c5d1be54fb8a056c33160abbf8d
cadd3f05b496ef137566c90c8fee3905ff13e8bda086b2f0d3cf7512092b541c

tamirlan.dll
69f1eeb7d5d466a2d53c8b7e3a929e9c
a27f6f5cc0051f4c4deed6ee14d5110c7807545f
123f96ff0a583d507439f79033ba4f5aa28cf43c5f2c093ac2445aaebdcfd31b
```

Behavioral

The threat actor delivers the BumbleBee loader in the form of a DLL (tamirlan.dll) via an ISO file named document.iso and tricks a user into executing it via an LNK (document.lnk).

The threat actor dumps lsass using procdump and copies it over an admin share before using 7zip to zip it.

BumbleBee is used to load both Meterpreter and Cobalt Strike into memory and communicate with the C2 server.

Detections

Network

```
ET USER_AGENTS AnyDesk Remote Desktop Software User-Agent
ET POLICY SSL/TLS Certificate Observed (AnyDesk Remote Desktop Software)
ET RPC DCERPC SVCCTL - Remote Service Control Manager Access
ET POLICY SMB2 NT Create AndX Request For an Executable File
ET POLICY SMB Executable File Transfer
```

Sigma

https://github.com/The-DFIR-Report/Sigma-

Rules/blob/main/14373/bumblebee wmiprvse execution pattern.yaml

```
title: BumbleBee WmiPrvSE execution pattern
id: 1620db43-fde5-45f3-b4d9-45ca6e79e047
status: Experimental
description: Detects BumbleBee WmiPrvSE parent process manipulation
author: TheDFIRReport
references:
  - https://thedfirreport.com/
date: 2022/09/26
logsource:
  category: process creation
 product: windows
detection:
  selection image:
    Image | endswith:
      - 'ImagingDevices.exe'
      - 'wabmig.exe'
  selection parent:
    ParentImage:endswith:
```

```
- 'WmiPrvSE.exe'

condition: selection_image and selection_parent

falsepositives:

- Unknown

level: high

tags:

- attack.defense_evasion

- attack.t1036
```

https://github.com/SigmaHQ/sigma/blob/071bcc292362fd3754a2da00878bba4bae1a335f/rules/windows/process_creation/proc_creation_win_ad_find_discovery.yml

https://github.com/SigmaHQ/sigma/blob/becf3baeb4f6313bf267f7e8d6e9808fc0fc059c/rules/windows/process_creation/proc_creation_win_susp_recon_activity.yml

https://github.com/SigmaHQ/sigma/blob/master/rules/windows/process_creation/proc_creation_win_susp_procdump_lsass.yml

 $\underline{https://github.com/SigmaHQ/sigma/blob/8bb3379b6807610d61d29db1d76f5af4840b8208/rules/win}\\ \underline{dows/process_creation/proc_creation_win_trust_discovery.yml}$

https://github.com/SigmaHQ/sigma/blob/8041ab5130ff8f4d44a9fd9454670f329d2727bc/rules/windows/pipe_created_mal_cobaltstrike.yml

https://github.com/SigmaHQ/sigma/blob/6e529bb9c8fe7054adf25dfd6ee413d31614feed/rules/windows/process creation/proc creation win susp add local admin.yml

https://github.com/SigmaHQ/sigma/blob/8bb3379b6807610d61d29db1d76f5af4840b8208/rules/windows/process creation/proc creation win rundll32 not from c drive.yml

YARA

```
/*
    YARA Rule Set
    Author: The DFIR Report
    Date: 2022-09-26
    Identifier: Case 14373 BumbleBee
    Reference: https://thedfirreport.com/
*/
```

```
/* Rule Set ----
---- */
rule case 14373 bumblebee document iso {
      description = "Files - file document.iso"
      author = "The DFIR Report"
      reference = "https://thedfirreport.com/"
      date = "2022-09-26"
     hash1 =
"11bce4f2dcdc2c1992fddefb109e3ddad384b5171786a1daaddadc83be25f355"
   strings:
      $x1 =
"tamirlan.dll,EdHVntqdWt\"%systemroot%\\system32\\imageres.dll" fullword
wide
      $s2 = "C:\\Windows\\System32\\rundll32.exe" fullword ascii
      $s3 = "xotgug064ka8.dll" fullword ascii
      $s4 = "tamirlan.dll" fullword wide
      ss = ").......Windows\\System32\\rundl132.exe" fullword
wide
      $s6 = "
                    <requestedExecutionLevel level='asInvoker'</pre>
uiAccess='false' />" fullword ascii
      $s7 = "claims indebted fires plastic naturalist deduction
meaningless yielded automatic wrote damage far use fairly allocation
lever ne" ascii
      $s8 = "documents.lnk" fullword wide
      $s9 = "4System32" fullword wide
      $s10 =
"\\ P^YVPX[SY]WT^^RQ V[YQV\\Y]USUZV[XWT SWT[UYURVVRVR^^[ XRQPPUXZWYYVU]V
\\[TS[SSWWVY R Y[XZ W[VVS\\]ZYSPYURUSP\\U^P^^S\\QVRQXPTV" ascii
      $s11 =
"\\ P^YVPX[SY]WT^^RQ V[YQV\\Y]USUZV[XWT SWT[UYURVVRVR^^[ XRQPPUXZWYYVU]V
\\[TS[SSWWVY R Y[XZ W[VVS\\]ZYSPYURUSP\\U^P^^S\\QVRQXPTV" ascii
      $s12 = " Type Descriptor'" fullword ascii
```

```
$s13 =
"YP^WTS]V[WPTWR \\P[]WX SPYQ[SQ]]UWTU]QR\\UQR]]\\\^]UZUX\\X^U]P ^S[ZY^R^
]UXWZURR\\]X[^TX\\S\\SWV [YXP [^^\\WW\\]]]PU YZ\\]SVPQX[" ascii
      $s14 = "494[/D59:" fullword ascii /* hex encoded string 'IMY' */
      $s15 =
"ZQ\\V\\TW]P\\YW^PZT TR[T WVQUSQPVSPYRSWPS^WVQR [T PS[]TT]RSSQV [ Q]UY\
\\QPVQRXXPPR^ VSZRRRSWXTUV^PRQQXPSWPSWSYWWV^YR Z]PWRP]^" ascii
      $s16 = "?+7,*6@24" fullword ascii /* hex encoded string 'v$' */
      $s17 = "67?.68@6.3=" fullword ascii /* hex encoded string 'ghc' */
      $s18 = "*; +273++C" fullword ascii /* hex encoded string ''<' */
      $s19 = "*:>?2-:E?@>5D+" fullword ascii /* hex encoded string '.]'
*/
      $s20 =
"UPVX]VWVQU[_^ZU[_W^[R^]SPQ[[VPRR]]Z[\\XVU^ TR[YPR\\PY]RXT[ RXSPYSWTU]PV
SWWUVU\\R X U V[ UW[\\^YU[WTUXSURQ]QSUPTXVXZV]WRP[ XW]" fullword ascii
   condition:
     uint16(0) == 0x0000 and filesize < 8000KB and
      1 of ($x*) and 4 of them
}
rule case 14373 bumblebee tamirlan dll {
   meta:
      description = "Files - file tamirlan.dll"
      author = "The DFIR Report"
      reference = "https://thedfirreport.com/"
      date = "2022-09-26"
     hash1 =
"123f96ff0a583d507439f79033ba4f5aa28cf43c5f2c093ac2445aaebdcfd31b"
   strings:
      $s1 = "xotgug064ka8.dll" fullword ascii
                  <requestedExecutionLevel level='asInvoker'</pre>
uiAccess='false' />" fullword ascii
      $s3 = "claims indebted fires plastic naturalist deduction
meaningless yielded automatic wrote damage far use fairly allocation
lever ne" ascii
      $s4 =
"\\ P^YVPX[SY]WT^^RQ V[YQV\\Y]USUZV[XWT SWT[UYURVVRVR^^[ XRQPPUXZWYYVU]V
```

```
\\[TS[SSWWVY R Y[XZ W[VVS\\]ZYSPYURUSP\\U^P^^S\\QVRQXPTV" ascii
      $s5 =
"\\ P^YVPX[SY]WT^^RQ V[YQV\\Y]USUZV[XWT SWT[UYURVVRVR^^[ XRQPPUXZWYYVU]V
\\[TS[SSWWVY R Y[XZ W[VVS\\]ZYSPYURUSP\\U^P^^S\\QVRQXPTV" ascii
      $s6 = " Type Descriptor'" fullword ascii
      $s7 =
"YP^WTS]V[WPTWR \\P[]WX SPYQ[SQ]]UWTU]QR\\UQR]]\\\\^]UZUX\\X^U]P ^S[ZY^R^
]UXWZURR\\]X[^TX\\S\\SWV [YXP [^^\\WW\\]]]PU YZ\\]SVPQX[" ascii
      $s8 = "494[/D59:" fullword ascii /* hex encoded string 'IMY' */
      $s9 =
"_ZQ\\V\\TW]P\\YW^_PZT_TR[T_WVQUSQPVSPYRSWPS^WVQR_[T_PS[]TT]RSSQV_[_Q]UY\
\\QPVQRXXPPR^ VSZRRRSWXTUV^PRQQXPSWPSWSYWWV^YR Z]PWRP]^" ascii
      $s10 = "?+7,*6024" fullword ascii /* hex encoded string 'v$' */
      $s11 = "67?.68@6.3=" fullword ascii /* hex encoded string 'ghc' */
      $s12 = "*; +273++C" fullword ascii /* hex encoded string ''<' */
      $s13 = "*:>?2-:E?@>5D+" fullword ascii /* hex encoded string '.]'
* /
      $s14 =
"UPVX]VWVQU[ ^ZU[ W^[R^]SPQ[[VPRR]]Z[\\XVU^ TR[YPR\\PY]RXT[ RXSPYSWTU]PV
SWWUVU\\R X U V[ UW[\\^YU[WTUXSURQ]QSUPTXVXZV]WRP[ XW]" fullword ascii
      $s15 =
"YX\\^SPP^XW ^^ Y]ZY[T UQU QXP[SV^RT ZRPV\\YVVYPVR^UP^QYQXV^\\]]T SQQR ZS
QZT Y^^ ]Z]QYW\\Z T VRTWQZPS\\X\\ ]W]PTTSP\\[]WVSRR\\Q]Q" ascii
      $s16 = "Z VV\PSYWUT Z\WQSPY\ZZ\PY]W]
 [RW^{\vert_{WZ}}] V [YU^{\vert_{QU}}] V [YU^{\vert_{QU}}] V [VR^{\vert_{QU}}] V [VR^{\vert_{QU}}] U 
ZRVYV\\^WRY SR YUUY []S" ascii
      $s17 = "R XUSP^T[RVXUR \\VU\\Y[YWV\\WYXV\\SQ RU]
[R\\ZTU\\PWYQ[ZSRTQUZ]\\WSPY\\P[]TX]YZPTSSZ[VXW[YT\\W\\Z[SXRYZYQ^PR^VZVU
^VRV][RR]S\\V " ascii
      $s18 = "Z VV\\PSYWUT Z\\WQSPY\\ZZ\\PY]W]
[RW^\\^ZPUZV[WZ\\QU V[YU\\X[Q \\YQQPZ[VR\\QUZUQVQ^PUPUXWQ ZTRTZU[T^QUZ[U
ZRVYV\\^WRY SR YUUY []S" ascii
      $s19 =
"PQP]^ \\ZZUSZYT ^S SPPV]\\XPT TPQU\\VWZQYZPZ^]]SW]R^[WYP]^[[R RTSPYW^WU
^QVPZ" fullword ascii
      $s20 =
```

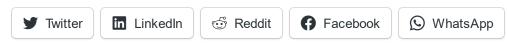
```
"Y] QU\\ZQQSXRX[SPYVRWXU^P[VSSWUR]]PSWV\\X]Y[PX UZ PPP[WQVXY^^]^RRSPZ]^XW
V^]" fullword ascii
   condition:
      uint16(0) == 0x5a4d and filesize < 3000KB and
      8 of them
}
rule case 14373 bumblebee documents lnk {
   meta:
      description = "Files - file documents.lnk"
      author = "The DFIR Report"
      reference = "https://thedfirreport.com/"
      date = "2022-09-26"
      hash1 =
"cadd3f05b496ef137566c90c8fee3905ff13e8bda086b2f0d3cf7512092b541c"
   strings:
      $x1 =
"tamirlan.dll, EdHVntqdWt\"%systemroot%\\system32\\imageres.dll" fullword
wide
      $s2 = "C:\\Windows\\System32\\rundll32.exe" fullword ascii
      s3 = ")......Windows\\System32\\rundl132.exe" fullword
wide
      $s4 = "4System32" fullword wide
      $s5 = "user-pc" fullword ascii
      $s6 = "}Windows" fullword wide
   condition:
      uint16(0) == 0x004c and filesize < 4KB and
      1 of ($x*) and all of them
}
```

MITRE

```
Mark-of-the-Web Bypass - T1553.005
User Execution - T1204
```

```
Rundll32 - T1218.011
  Masquerading - T1036
  Local Account - T1136.001
  LSASS Memory - T1003.001
  Archive via Utility - T1560.001
  Archive Collected Data - T1560
  Service Execution - T1569.002
  Process Discovery - T1057
  System Network Configuration Discovery - T1016
  Domain Trust Discovery - T1482
  Domain Groups - T1069.002
  SMB/Windows Admin Shares - T1021.002
  Lateral Tool Transfer - T1570
  Remote Desktop Protocol - T1021.001
  Web Protocols - T1071.001
  Remote Access Software - T1219
  Process Injection - T1055
Internal case #14373
```

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