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### **Stolen Images Campaign Ends in Conti Ransomware**

April 4, 2022

In this intrusion from December 2021, the threat actors utilized IcedID as the initial access vector. IcedID is a banking trojan that first appeared in 2017, usually, it is delivered via malspam campaigns and has been widely used as an initial access vector in multiple ransomware intrusions.

Upon execution of the IcedID DLL, discovery activity was performed which was followed by the dropping of a Cobalt Strike beacon on the infected host. Along the way, the threat actors installed remote management tools such as Atera and Splashtop for persisting in the environment. While remaining dormant most of the time, the adversary deployed Conti ransomware on the 19th day (shortly after Christmas), resulting in domain wide encryption.

## Case Summary

We assess with high confidence that the "<u>Stolen Image Evidence</u>" email campaign was used to deliver the IcedID DLL. This was first reported by <u>Microsoft</u> in April 2021.

Upon execution of the IcedID DLL, a connection to a C2 server was established. This was followed by the creation of a scheduled task on the beachhead host to establish persistence. The task executed the IcedID payload every one 1 hour. The IcedID malware then used Windows utilities such as net, chcp, nltest, and wmic, to perform discovery activity on the host.

After a gap of almost an hour, a Cobalt Strike beacon was dropped and executed on the beachhead host. Soon after, another round of discovery was performed from the Cobalt Strike beacon focusing on the Windows domain. NItest and net group were utilized to look for sensitive groups such as Domain Admins and Enterprise Admins. Process injection into explorer.exe was then observed from the Cobalt Strike Beacon.

The threat actors proceeded to install remote management tools such as <a href="Atera Agent">Atera Agent</a> and <a href="Splashtop">Splashtop</a>. Use of these 3rd party administrative tools allow the threat actors another "legitimate" means of persistence and access if they were to lose their malware connection. In this intrusion, we observed usage of gmail[.]com and outlook[.]com email accounts for Atera agent registration. Soon after, one of the injected Cobalt Strike processes accessed LSASS memory to dump credentials from the beachhead.

On the sixth day of the intrusion, the beachhead host saw new discovery activity with a quick nltest followed by the <a href="PowerView">PowerView</a> script <a href="Invoke-ShareFinder">Invoke-ShareFinder</a>. On the following day, the seventh day of the intrusion, the threat actors made their next move. On that day, a new Cobalt Strike server was observed, in fact over the course of the intrusion, four different Cobalt Strike servers were used. From the beachhead host, a DLL was transferred to a domain controller over SMB and then a remote service was created on the domain controller to execute the Cobalt Strike DLL.

After getting a foothold on the domain controller, we saw more process injection followed by the same pattern of installing Atera for additional persistent access. From the domain controller, the threat actors proceeded with more discovery tasks including <a href="AdFind">AdFind</a> and Invoke-ShareFinder again. After this, the threat actors went guiet.

On day nine of the intrusion, the next Cobalt Strike server, which would ultimately be used until the end of the intrusion, was observed for the first time. On the tenth day, little activity was observed but the threat actors connected to the beachhead host via the Atera agent and executed another Cobalt Strike DLL. A little discovery check-in was observed on the 14th day, but little else.

On the 19th day, the threat actors moved towards their final objectives. They reviewed the directory structure of several hosts including domain controllers and backup servers. They then dropped their final ransomware payload on the beachhead host and attempted to execute it using a batch file named backup.bat. However, they found that their execution failed.

They left for a few hours, and then returned, and attempted to exploit a couple of <a href="CVE's">CVE's</a> in an attempt to escalate privileges. The threat actors had already secured domain admin access but it's possible the operator may have thought they lacked permissions when their first ransomware execution failed.

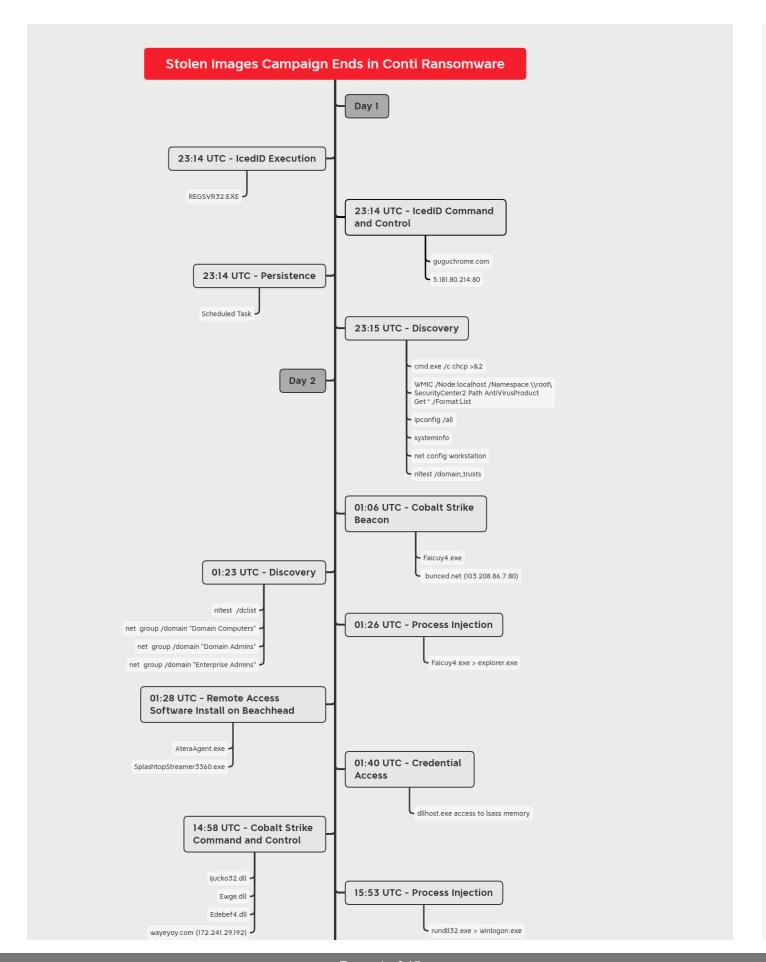
While these exploits appear to have failed the threat actors found their previously captured domain admin credentials and launched two new Cobalt Strike beacons on the domain controllers. Finally, twenty minutes after accessing the domain controllers, the threat actors dropped the ransomware DLL and the batch script and executed it from the domain controller. This time the execution worked as intended and resulted in domain wide ransomware.

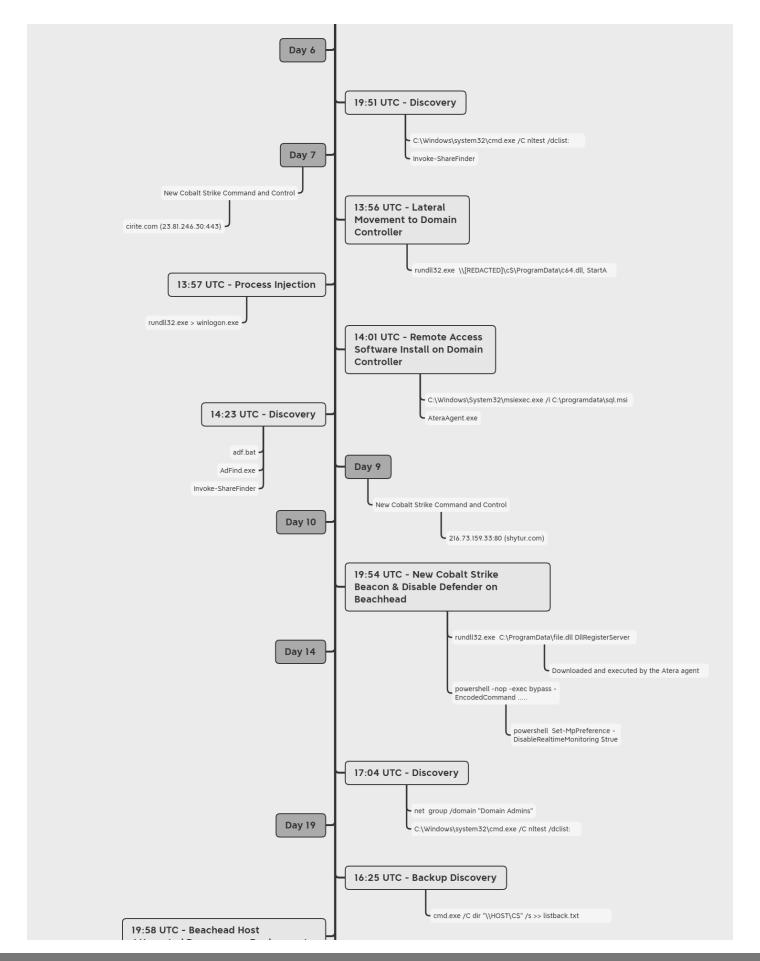
### Services

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

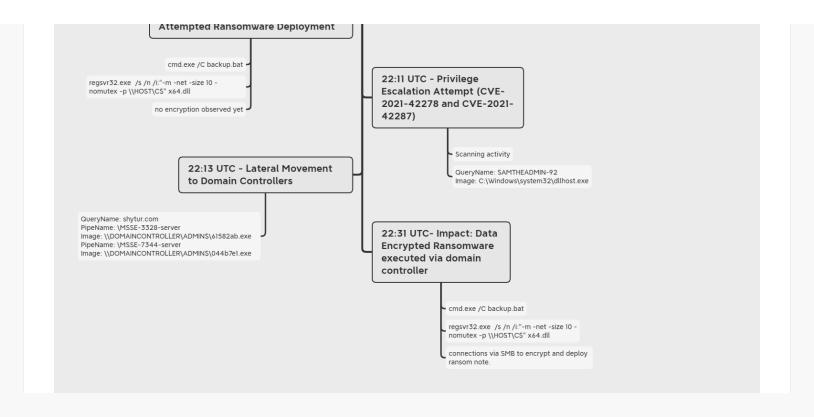
We also have artifacts and IOCs available from this case such as pcaps, memory captures, files, event logs including Sysmon, Kape packages, and more, under our <u>Security Researcher and Organization</u> services.

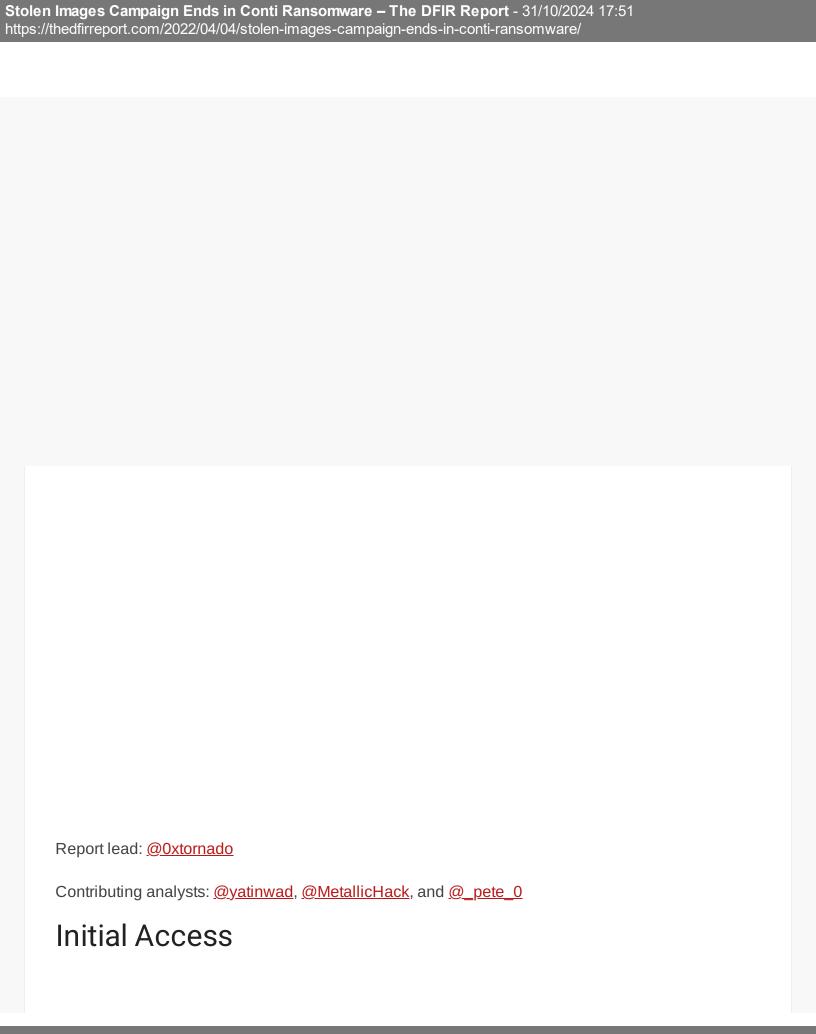
## **Timeline**





https://thedfirreport.com/2022/04/04/stolen-images-campaign-ends-in-conti-ransomware/





The IcedID DLL, which gave the threat actors a foothold into the environment, was likely delivered by a "<u>Stolen Image Evidence</u>" email campaign.

- "Stolen Images" #ContactForms campaign that submits

  "https://t.co/uc4QkLQt4b" links into contact us forms now dropping an .iso
  file and #IcedID dll. https://t.co/1O3TYQYP1i@abuse\_ch Looks like

  https://t.co/ZNwTD5rH7U incorrectly(?) tags the dll as emotet/Heodo...

  FYI.
  - Sean (@infosecfu) December 9, 2021

These initial access campaigns reportedly utilize contact forms to send malicious emails to intended targets.

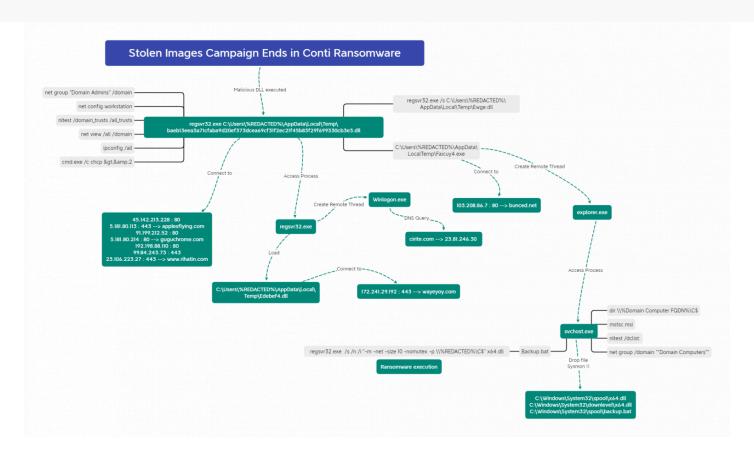
The emails contain a link to a legitimate storage service like those offered by Google and Microsoft. In this example, "http://storage.googleapis.com" was used to host a zip file. The zip archive contains an ISO file, which once clicked and mounted, shows a document-like LNK file. Once the victim opens that LNK file, the IcedID DLL loader executes, downloads, and runs the second stage of IcedID.

Below is a configuration extraction of that initial IcedID malware from an <u>automated sandbox</u> <u>analysis of the sample</u>:

```
"Campaign ID": 870605016,
"C2 url": "guguchrome.com"
}
```

### Execution

The graph below shows detailed actions performed through IcedID, including reconnaissance and Cobalt Strike beacons drops:



## Persistence

#### **Scheduled Tasks**

Only one scheduled task was created during this intrusion. The scheduled task was created on the beachhead host upon the execution of IcedID DLL, which executed every hour:

#### Atera Agent

Threat actors dropped and installed Atera agent (T1219), using two MSI packages "sql.msi" and "mstsc.msi", from the Cobalt Strike beacons, which allowed them to have a non-malware backdoor in the environment.



The installation of those two packages reveals two emails potentially belonging to the ransomware operators or affiliates:

```
/IntegratorLogin=""marsmors1947@gmail.com"" /AccountId=""0013z00002kcnS1AAI" /IntegratorLogin=""hughess6623@outlook.com"" /AccountId=""0013z00002kbhSdAAI
```

<u>Atera</u> agent is a remote monitoring and management system.

At one point in the intrusion the threat actors utilized Atera to download and launch a new Cobalt Strike beacon on one of the hosts they had installed the agent on.

# **Privilege Escalation**

There were attempts to exploit Active Directory vulnerabilities <a href="CVE-2021-42278">CVE-2021-42278</a> and <a href="CVE-2

The injected process dllhost.exe requesting SAMTHEADMIN-92 and SAMTHEADMIN-20 accounts:

We believe the operator used the publicly available script 'sam\_the\_admin' or a variant based on it. Part of the script generates a new computer name account in the form SAMTHEADMIN- followed by a random value between 0 to 100, as indicated below.

The exploitation involves invoking lookups to ensure that the new accounts were successful, explaining why failed DNS requests were observed.

## **Defense Evasion**

#### Disable Defender

A base64 encoded PowerShell command was executed on the beachhead which disabled Windows Defender AV (<u>T1562.001</u>).

**Encoded Command:** 

```
powershell -nop -exec bypass -EncodedCommand UwBlAHQALQBNAHAAUAByAGUAZgBlAHI
```

The decoded base64 PowerShell command uses Set-MpPreference cmdlet to disable Defender's real time monitoring:

Set-MpPreference -DisableRealtimeMonitoring \$true

#### **Process Injection**

A number of process injections were seen during this intrusion. The Cobalt Strike beacon used the **CreateRemoteThread** Win32 function in order to inject code into running processes. The usage of this function triggers the Sysmon Event ID 8, a well known pattern of CS beacon activity.

Remote threads were created in Winlogon and Explorer processes.

## **Credential Access**

#### LSASS Access

The threat actors accessed LSASS process memory (<u>T1003.001</u>) on different hosts, including domain controllers, using multiple techniques.

The screenshot below shows the different "DesiredAccess" to the LSASS process object from different beacons (dllhost.exe, Edebef4.dll, etc.) or Task Manager:

The table below maps the "DesiredAccess" values with the actual <u>corresponding access rights</u>, and examples of credentials dumping tools requesting those accesses:

Desired Access	Hex value	Process Access Rights	Offensive Tools
5136	1410	PROCESS_VM_READ (0x0010)	Mimikatz
		PROCESS_QUERY_INFORMATION (0x0400)	(Winver <5)

		PROCESS_QUERY_LIMITED_INFORMATION (0x1000)*	NanoDump
4112	1010	PROCESS_VM_READ (0x0010)  PROCESS_QUERY_LIMITED_INFORMATION (0x1000)	Mimikatz (Winver >=6)
64	40	PROCESS_DUP_HANDLE (0x0040)	MirrorDump HandleKatz

<sup>\*</sup>A handle that has the PROCESS\_QUERY\_INFORMATION access right is automatically granted PROCESS\_QUERY\_LIMITED\_INFORMATION.

Those "DesiredAccess" values could be interesting to build detections or hunting queries if you are using Sysmon or such a verbose monitoring tool.

In our case, the access to LSASS process allowed the threat actors to compromise a domain admin account, which was then used to move laterally and deploy ransomware.

## Discovery

Multiple discovery techniques were observed throughout the case. The initial discovery techniques were conducted on the beachhead host by the IcedID malware – focusing on determining the system language and security products installed (T1518.001). Other familiar discovery techniques were then leveraged to establish situational awareness, such as network configurations and Windows domain configuration.

Discovery was achieved using a combination of living off the land techniques (WMIC and CMD) and via third-party tools.

```
cmd.exe /c chcp >&2
ipconfig /all
systeminfo
WMIC /Node:localhost /Namespace:\\root\SecurityCenter2 Path AntiVirusProduct
```

```
net config workstation
nltest /domain_trusts
nltest /domain_trusts /all_trusts
net view /all /domain
net view /all
net group "Domain Admins" /domain
cmd.exe /C nltest /dclist:
cmd.exe /C net group /domain "Domain Computers"
cmd.exe /C net group /domain "Enterprise Admins"
```

Threat actors also used "chcp" for discovery of the system locale/language (<u>T1614.001</u>). <u>Change Control Page (ChCP)</u> is a Microsoft utility for changing the console control page (language). In this case, the existing control page language was collected using the following command:

```
cmd.exe /c chcp >&2
```

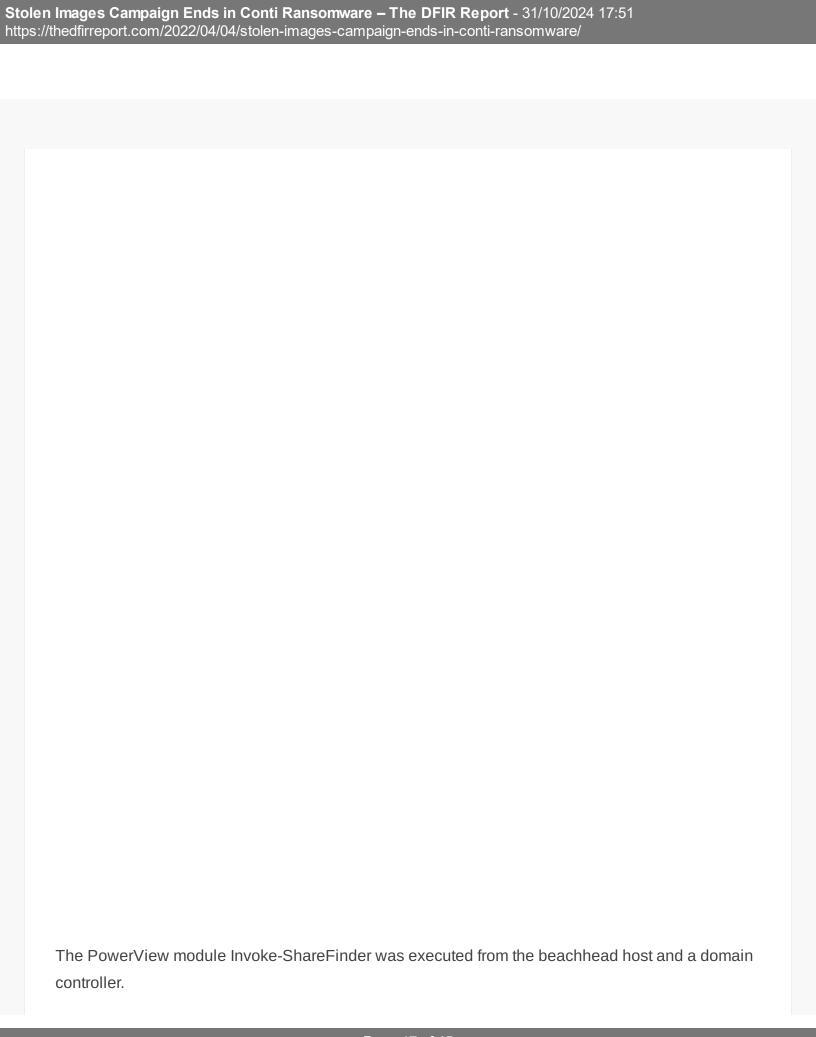
As a test, entering this on a command prompt shows a numeric value. The Microsoft link shows the number of the language used (437 – United States).

It is highly likely that the threat actors were establishing the country of origin based on the language used – an extra fail-safe check to ensure certain users or regions were not targeted. The >&2 parameter could indicate a parameter was expected as part of a script, or possibly a redirect using stderr.

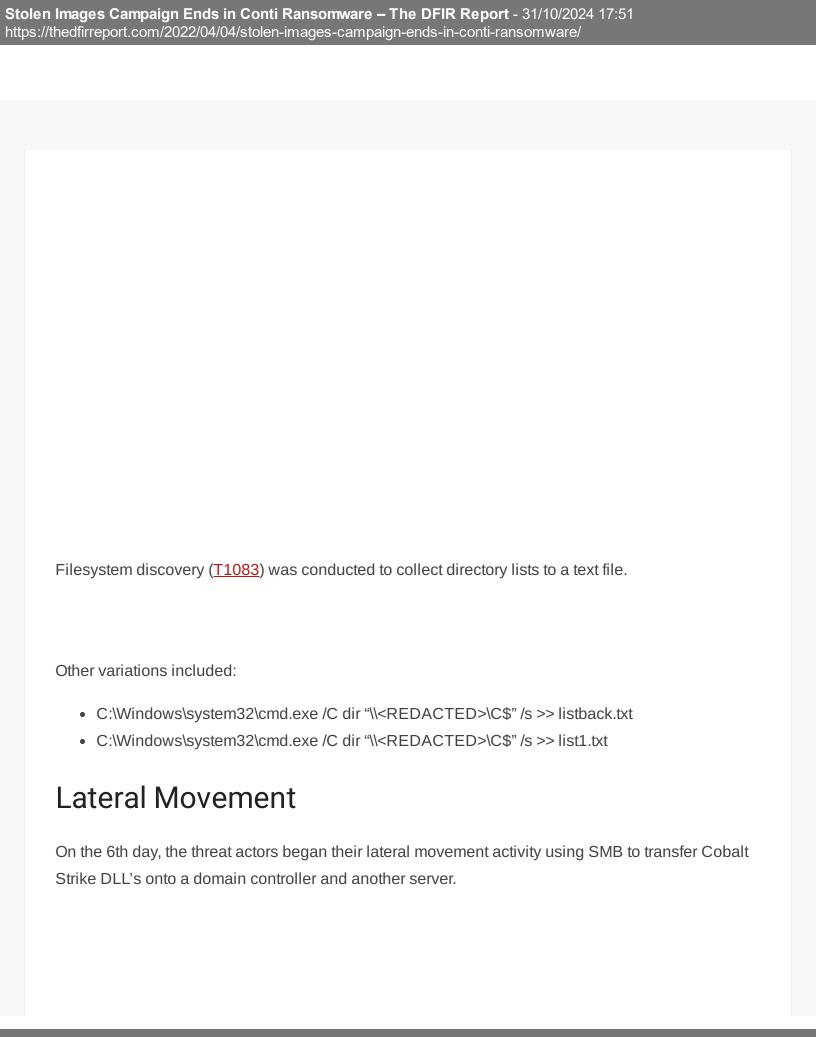
The second discovery was from a different Cobalt Strike beacon "Faicuy4.exe" which focused on domain discovery and user groups using the net command.

Once the threat actors had achieved lateral movement to domain controllers, the AdFind utility was employed to enumerate active directory objects (T1018).

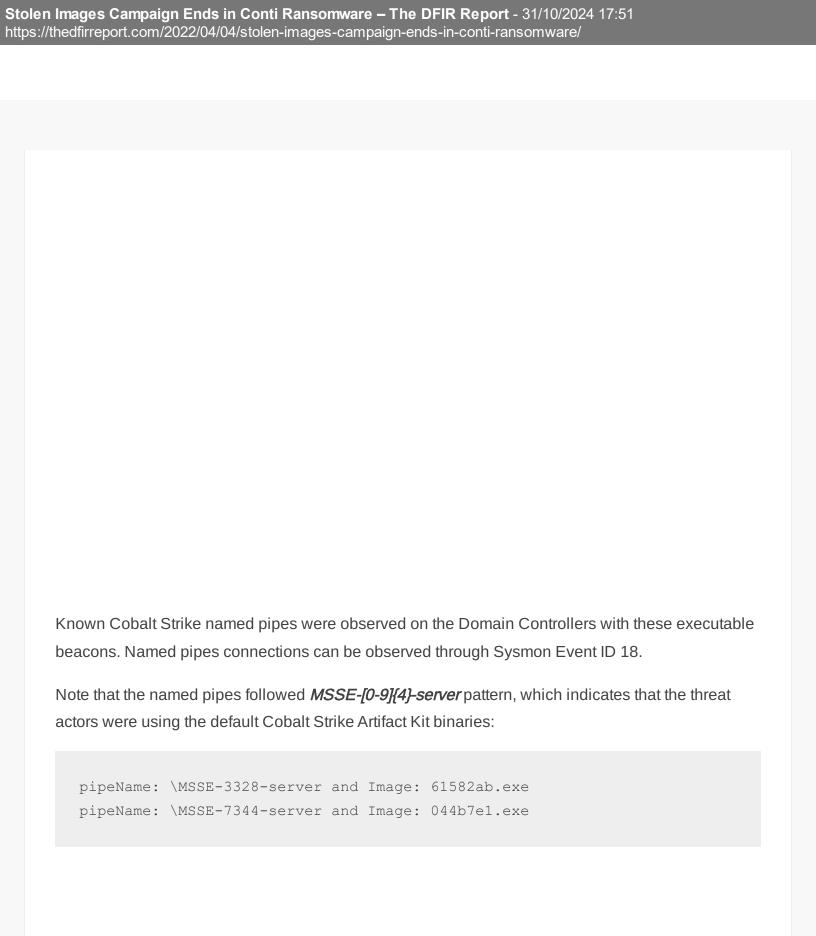
Stolen Images Campa https://thedfirreport.com	aign Ends in Conti Ransomware – The DFIR Report - 31/10/2024 17:51 n/2022/04/04/stolen-images-campaign-ends-in-conti-ransomware/
'adf.bat' is a c	ommon batch file that we have observed in previous cases, we saw this script in 2020
	yuk intrusion. The recent Conti leaks indicate that Conti operators were surprised Ryuk e using their file.



Stolen Images Campaign Ends in Conti Ransomware – The DFIR Report - 31/10/2024 17:51 https://thedfirreport.com/2022/04/04/stolen-images-campaign-ends-in-conti-ransomware/	
Some network discovery was conducted using the ping utility to check the existence of hosts on the network (T1049).	

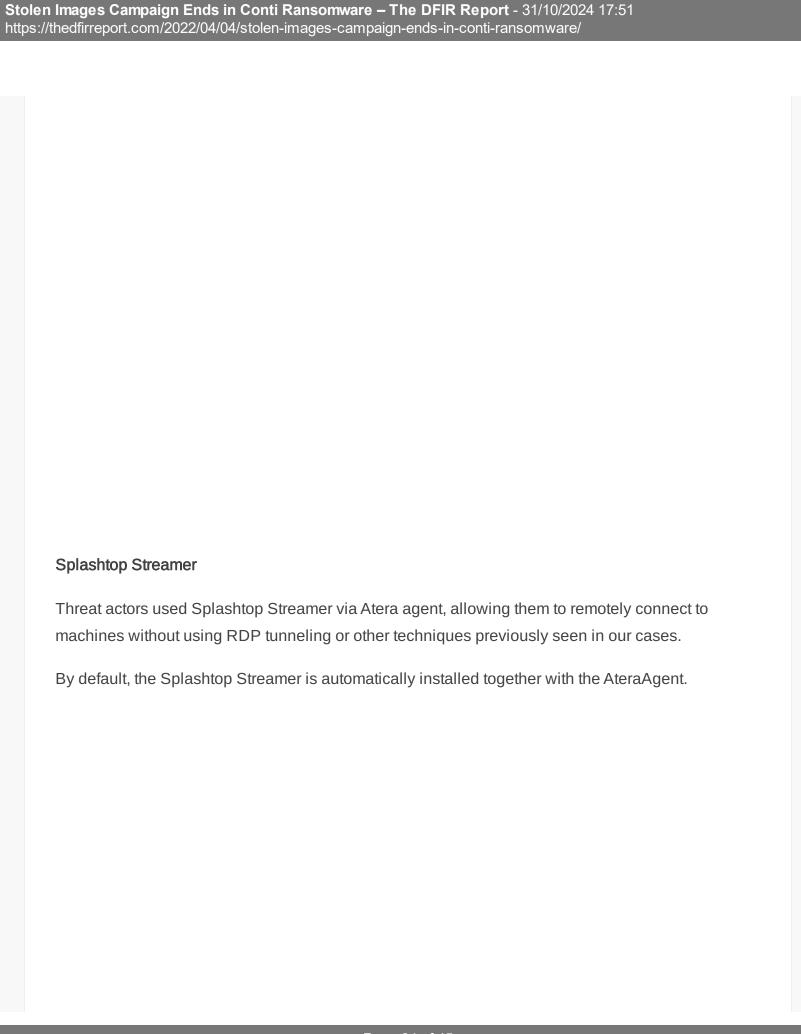


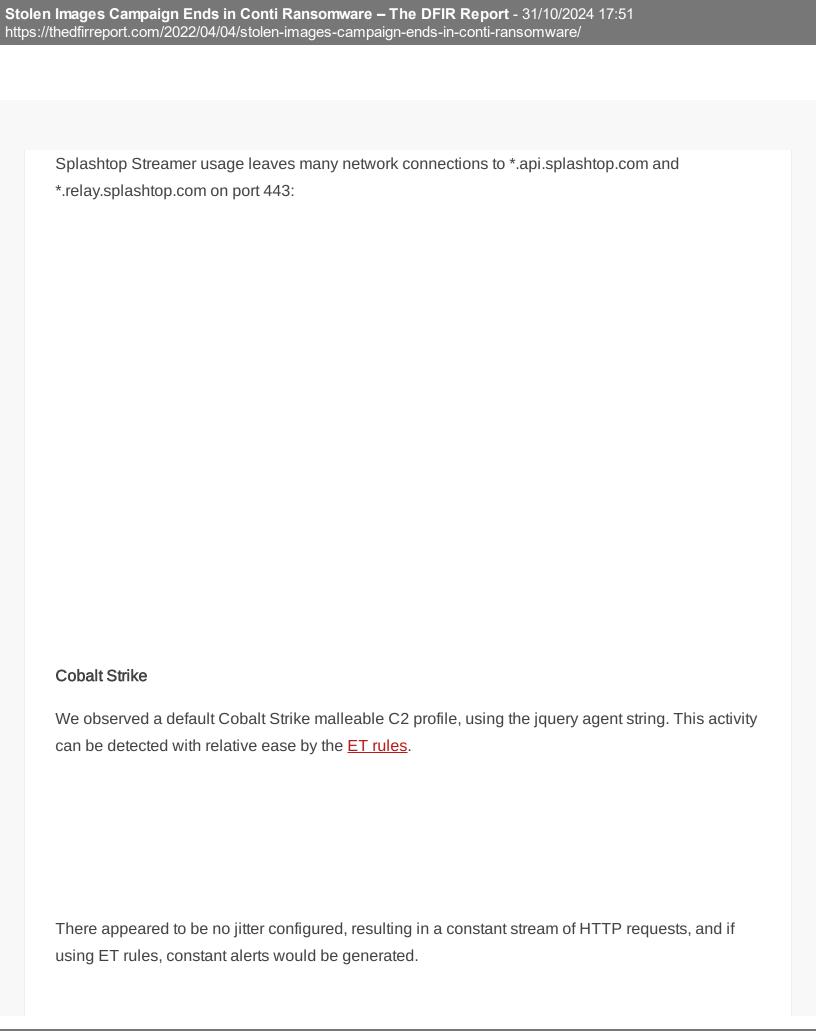
ps://thedfirreport.com/2022/04/04/stolen-images-campaign-ends-in-conti-ransomware/	
Services were then created on the hosts to execute the uploaded Cobalt Strike Beacons.	
On the final day, right before execution of the ransomware, SMB was again used to transfer Cobalt Strike Beacon executable to the domain controllers.	
The beacons were then executed using a remote service.	

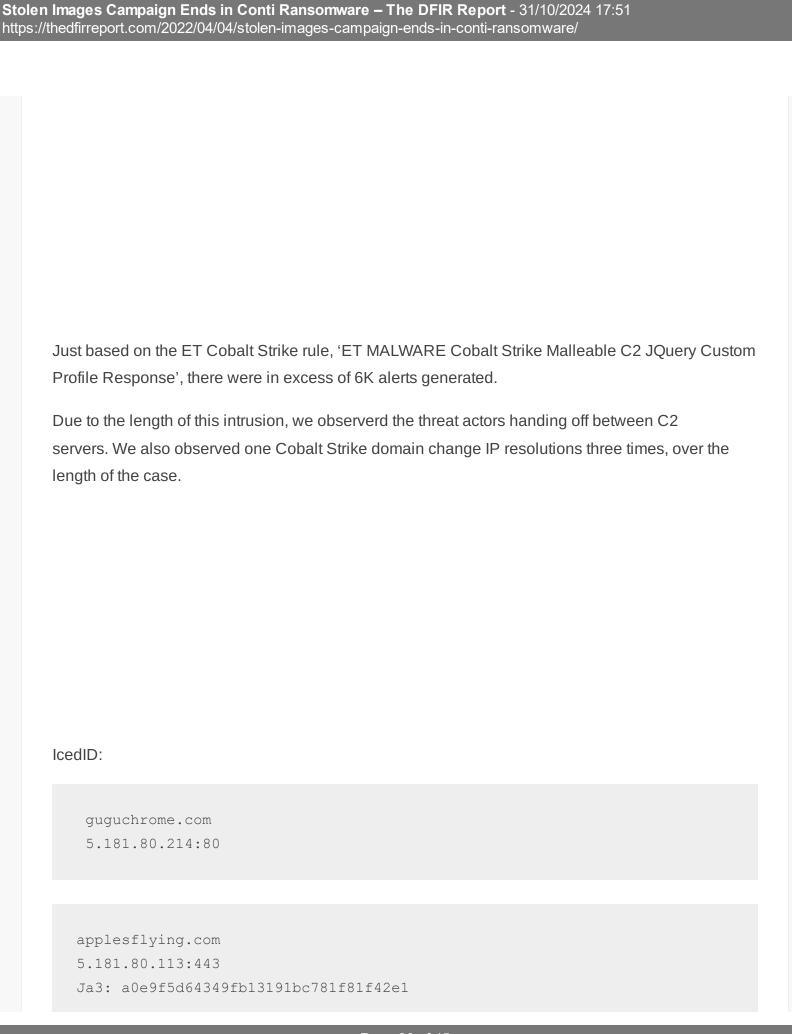


Stolen Images Campaign Ends in Conti Ransomware – The DFIR Report - 31/10/2024 17:51 https://thedfirreport.com/2022/04/04/stolen-images-campaign-ends-in-conti-ransomware/	

Sto	olen Images Campaign Ends in Conti Ransomware – The DFIR Report - 31/10/2024 17:51 ps://thedfirreport.com/2022/04/04/stolen-images-campaign-ends-in-conti-ransomware/
	Command and Control
	We observed the IcedID DLL dropping multiple CS beacons on the beachhead.
	We observed the locals selecting manaple de seasons on the seasonnead.







```
JA3s: ec74a5c51106f0419184d0dd08fb05bc

Certificate: [89:ac:17:b1:f1:b6:9e:c8:bb:e5:f3:59:ac:e4:91:b2:91:f4:85:58]

Not Before: 2021/12/08 20:30:05 UTC

Not After: 2022/12/08 20:30:05 UTC

Issuer Org: Internet Widgits Pty Ltd

Subject Common: localhost

Subject Org: Internet Widgits Pty Ltd

Public Algorithm: rsaEncryption
```

#### Cobalt Strike:

```
bunced.net
103.208.86.7:80
103.208.86.7:443
Ja3: 0eecb7b1551fba4ec03851810d31743f
JA3s:10b29985cd0ecd878ac083f059c42d51
Certificate: [8f:98:c5:f8:48:96:b6:cd:13:91:7c:4c:32:85:db:b7:e5:e1:bc:8f]
Not Before: 2021/12/09 10:32:43 UTC
Not After: 2022/03/09 10:32:42 UTC
Issuer Org: Let's Encrypt
Subject Common: bunced.net
Public Algorithm: id-ec
PublicKey Curve: secp384r1
```

```
"x64": {
    "sha256": "01a4c5ef0410b379fa83ac1a4132ba6f7b5814192dbdb87e9d7370e6256ea
    "md5": "21242d958caf225f76ad71a4d3a6d4d9",
    "config": {
        "Jitter": 10,
        "Spawn To x86": "%windir%\\syswow64\\dllhost.exe",
        "Port": 80,
```

```
"Watermark": 0,
    "C2 Host Header": "",
    "HTTP Method Path 2": "/jquery-3.3.2.min.js",
    "Beacon Type": "0 (HTTP)",
    "C2 Server": "bunced.net,/jquery-3.3.1.min.js",
    "Method 1": "GET",
    "Spawn To x64": "%windir%\\sysnative\\dllhost.exe",
    "Method 2": "POST",
    "Polling": 5000
  },
  "time": 1639100549541.8,
  "sha1": "04bbd0ffa580dd5a85ce4c7fc19c66cc753e45ff",
  "uri queried": "/uKVG"
},
"x86": {
  "sha256": "9c01afed2a863fa2466679ef53127e925963cc95de98bc4c59cb4743ccc73
  "md5": "e7df03bc59b478f0588039416b845c7f",
  "config": {
    "Jitter": 10,
    "Spawn To x86": "%windir%\\syswow64\\dllhost.exe",
    "Port": 80,
    "Watermark": 0,
    "C2 Host Header": "",
    "HTTP Method Path 2": "/jquery-3.3.2.min.js",
    "Beacon Type": "0 (HTTP)",
    "C2 Server": "bunced.net,/jquery-3.3.1.min.js",
    "Method 1": "GET",
    "Spawn To x64": "%windir%\\sysnative\\dllhost.exe",
    "Method 2": "POST",
    "Polling": 5000
  },
  "time": 1639100538593.3,
  "sha1": "18ddb5fac720599983791036e43154a9ce67ffde",
  "uri queried": "/Uq4b"
}
```

```
shytur.com
179.43.176.93:80
216.73.159.33:80
179.43.176.80:80
```

```
"x64": {
  "config": {
    "Port": 80,
    "Beacon Type": "0 (HTTP)",
    "Spawn To x86": "%windir%\\syswow64\\dllhost.exe",
    "Polling": 5000,
    "Method 2": "POST",
    "C2 Server": "shytur.com,/jquery-3.3.1.min.js",
    "C2 Host Header": "",
    "Method 1": "GET",
    "Spawn To x64": "%windir%\\sysnative\\dllhost.exe",
    "Watermark": 0,
    "Jitter": 10,
    "HTTP Method Path 2": "/jquery-3.3.2.min.js"
  },
  "uri queried": "/RnJS",
  "md5": "22bbd14a893b19220e829940ad474687",
  "sha256": "10084d7146462d06c599bd14664d14c511b40687e21983e6f8bded0698293
  "sha1": "06ef512d5a2b9353b6d0a412a1876e02d3474527",
  "time": 1640639559417.7
},
"x86": {
  "config": {
    "Port": 80,
    "Beacon Type": "0 (HTTP)",
    "Spawn To x86": "%windir%\\syswow64\\dllhost.exe",
    "Polling": 5000,
```

```
"Method 2": "POST",
    "C2 Server": "shytur.com,/jquery-3.3.1.min.js",
    "C2 Host Header": "",
    "Method 1": "GET",
    "Spawn To x64": "%windir%\\sysnative\\dllhost.exe",
    "Watermark": 0,
    "Jitter": 10,
    "HTTP Method Path 2": "/jquery-3.3.2.min.js"
},
    "uri_queried": "/COPz",
    "md5": "a48fbea9la3lafaf348f713b1f59dfbf",
    "sha256": "d28lcaef6c8fc45d8725d6cd1542234aea35b97b99bb6aaff7688d9la1071
    "sha1": "7d700ad69d2800de159af5f50bbb82e89467d8b4",
    "time": 1640639554775.3
}
}
```

```
cirite.com
23.81.246.30
Ja3: a0e9f5d64349fb13191bc781f81f42e1
Ja3s: ae4edc6faf64d08308082ad26be60767
Certificate: [f1:43:f2:43:29:79:35:ad:b5:60:c7:79:3a:0f:c6:68:a3:f2:d5:d1 ]
Not Before: 2021/10/22 00:00:00 UTC
Not After: 2022/10/22 23:59:59 UTC
Issuer Org: Sectigo Limited
Subject Common: cirite.com [cirite.com ,www.cirite.com ]
Public Algorithm: rsaEncryption
```

```
"beacontype": [
   "HTTPS"
],
   "sleeptime": 5000,
   "jitter": 20,
```

```
"maxgetsize": 1864736,
"spawnto": "AAAAAAAAAAAAAAAAAAAAAAA==",
"license id": 0,
"cfg caution": false,
"kill date": null,
"server": {
  "hostname": "cirite.com",
 "port": 443,
 "publickey": "MIGfMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQCNZaG28qpSpw7xhHStBr
},
"host header": "",
"useragent header": null,
"http-get": {
 "uri": "/posting",
 "verb": "GET",
  "client": {
    "headers": null,
    "metadata": null
 },
 "server": {
    "output": [
      "print",
      "prepend 600 characters",
      "base64",
      "base64url"
   ]
},
"http-post": {
  "uri": "/extension",
 "verb": "POST",
  "client": {
    "headers": null,
    "id": null,
    "output": null
```

```
"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\\rundl132.exe",
 "spawnto x64": "%windir%\\sysnative\\rundll32.exe"
},
"process-inject": {
 "allocator": "VirtualAllocEx",
 "execute": [
   "CreateThread",
   "CreateRemoteThread",
   "RtlCreateUserThread"
 ],
 "min alloc": 23886,
 "startrwx": false,
 "stub": "Ms1B7fCBDFtfSY7fRzHMbQ==",
 "transform-x86": [
   "prepend '\\x90\\x90\\x90'"
 ],
 "transform-x64": [
   "prepend '\\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,
"stage": {
 "cleanup": true
},
"ssh": {
 "hostname": null,
 "port": null,
 "username": null,
 "password": null,
 "privatekey": null
```

```
wayeyoy.com
172.241.29.192:443
Certificate: [00:e7:34:3a:ad:bc:61:59:16:5e:d4:2b:e7:64:fa:8c:d5:42:40:17]
Not Before: 2021/12/07 00:00:00 UTC
Not After: 2022/12/07 23:59:59 UTC
Issuer Org: Sectigo Limited
Subject Common: wayeyoy.com [wayeyoy.com ,www.wayeyoy.com]
Public Algorithm: rsaEncryption
```

A configuration was not obtained for this server.

#### **Exfiltration**

We did not observe any exfiltration indicators while analyzing host and network forensic artifacts.

This does not mean that there was no exfiltration, as this could have been performed via Cobalt Strike beacons over encrypted channels.

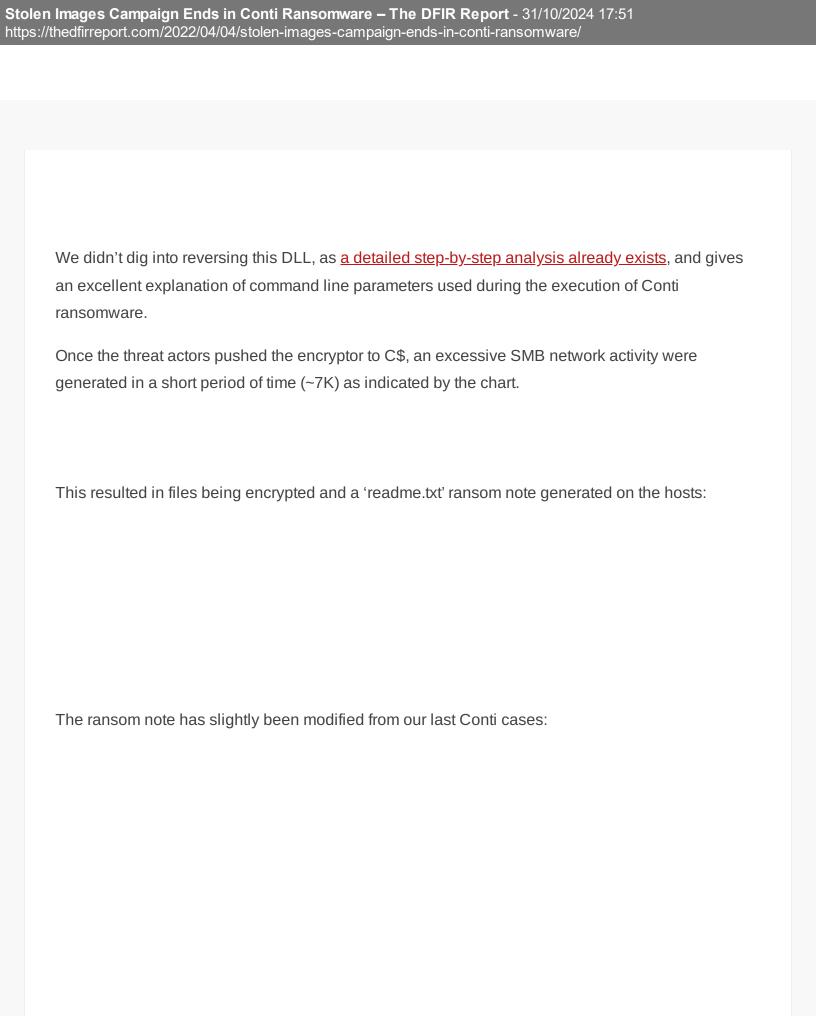
#### **Impact**

On the 19th day of the intrusion, the threat actors prepared for their final objectives. From the beachhead host, the directory listings of the domain controllers were checked again, followed by the backup server. On the beachhead host, we observed the threat actors attempt to execute the final ransomware payload. From that host however the attempt failed.

The threat actors then proceeded to look for other elevation paths. After a failed attempt with CVE-2021-42278 and CVE-2021-42287, the threat actors executed Cobalt Strike beacons on a couple of domain controllers. Once they established this access, around twenty minutes later, they again attempted the ransomware deployment and this time the payload executed properly and began spreading across the network via SMB.

The threat actors deployed ransomware payload in a DLL, named x64.dll, which was executed using backup.bat batch script.

This x64.dll DLL contains fingerprints, "conti v3.dll", seen in our <u>previous cases</u>:



#### **Indicators**

#### Network

```
Email Addresses used for Atera Registration:
marsmors1947@gmail.com
hughess6623@outlook.com

5.181.80.214:80
guguchrome.com

5.181.80.113:443
applesflying.com

103.208.86.7:80
bunced.net

172.241.29.192:443
wayeyoy.com

23.81.246.30:443
cirite.com
```

216.73.159.33:80 shytur.com

#### File

data.dll 71c8eb081c33fd6b2c10effa92154a18 8222ed4fcac2c7408e7fbb748af1752e72bb9b01 baeb13eea3a71cfaba9d20ef373dcea69cf31f2ec21f45b83f29f699330cb3e3 Faicuy4.exe fe4fb0b3ca2cb379d74cd239e71af44f 6ccd04b109a5148a04ae3ac7f6bc061ccab2122f a79f5ce304707a268b335f63d15e2d7d740b4d09b6e7d095d7d08235360e739c Ewge.dll/Ijucko32.dll b3053228b51ae7af99e0abfa663368d5 670d974d936262c1c569442238d953ed009f7c79 4d62929aa9e76694a62b46bc05425452f26e1e9b09ea6f294850ace825229966 Edebef4.dll 7375eccff18bef7e89665d1a7f31edca a0836d54aa2a783fd8bae685a1b94e913b655430 50d2a2564541887570cf784c677de6900aa503648c510927e08c32b5a6ae3bf5 x64.dll 28bd01b6b3efa726bf00d633398c5c8a 11012f0074e37e105c404a2eda61f9d652b8c03d 8fb035b73bf207243c9b29d96e435ce11eb9810a0f4fdcc6bb25a14a0ec8

#### **Detections**

#### Suricata

```
ET MALWARE Cobalt Strike Malleable C2 JQuery Custom Profile Response
ET MALWARE Cobalt Strike Beacon Activity (GET)
ETPRO POLICY Observed Atera Remote Access Application Activity Domain in TLS
ET POLICY Command Shell Activity Over SMB - Possible Lateral Movement
ET POLICY SMB Executable File Transfer
ET POLICY SMB2 NT Create AndX Request For an Executable File
ET HUNTING Possible Powershell .ps1 Script Use Over SMB
ET POLICY SMB2 NT Create AndX Request For a Powershell .ps1 File
```

#### Sigma

https://github.com/SigmaHQ/sigma/blob/a3eed2b760abddfd62014fcf9ae81f435b216473/rules/windows/process\_access/proc\_access\_win\_lsass\_memdump.yml

https://github.com/SigmaHQ/sigma/blob/11b6b24660c045bb907ed43cfe007349764173bc/rules/windows/powershell\_script/posh\_ps\_powerview\_malicious\_commandlets.yml

https://github.com/SigmaHQ/sigma/blob/071bcc292362fd3754a2da00878bba4bae1a335f/rules/windows/process\_creation/proc\_creation\_win\_ad\_find\_discovery.yml

https://github.com/SigmaHQ/sigma/blob/6b3fc11a48e8aa2773dfe266c3be11e4c4c973a5/rules/windows/process creation/proc creation win powershell\_defender\_disable\_feature.yml

https://github.com/SigmaHQ/sigma/blob/eb382c4a59b6d87e186ee269805fe2db2acf250e/rules/win\_dows/builtin/security/win\_admin\_share\_access.yml

https://github.com/SigmaHQ/sigma/blob/04f72b9e78f196544f8f1331b4d9158df34d7ecf/rules/windows/builtin/application/win\_software\_atera\_rmm\_agent\_install.yml

https://github.com/SigmaHQ/sigma/blob/8bb3379b6807610d61d29db1d76f5af4840b8208/rules/windows/process creation/proc creation win trust 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/e049058d14dd9ec09771b38ed4d59e8b49ba1bad/rules/windows/builtin/security/win\_security\_cobaltstrike\_service\_installs.yml

```
title: CHCP CodePage Locale Lookup
status: Experimental
description: Detects use of chcp to look up the system locale value as part
author: pete 0, TheDFIRReport
references:
  - https://thedfirreport.com/2022/04/04/stolen-images-campaign-ends-in-cont
  - https://docs.microsoft.com/en-us/windows-server/administration/windows-c
date: 2022/02/21
modified: 2022/02/21
logsource:
 category: process creation
 product: windows
detection:
  selection:
    Image|endswith:
      - '\chcp.com'
    CommandLine|endswith:
      - 'chcp'
    ParentImage|endswith:
      - '\cmd.exe'
    ParentCommandLine|contains:
      - '/c'
  condition: selection
fields:
  - CommandLine
  - ParentCommandLine
falsepositives:
  - Unknown
level: high
tags:
```

```
- attack.discovery
- attack.t1614.001
```

## **YARA**

```
/*
  YARA Rule Set
  Author: The DFIR Report
   Date: 2022-04-04
  Identifier: 9438 conti
  Reference: https://thedfirreport.com/2022/04/04/stolen-images-campaign-en
*/
/* Rule Set ----
rule cs exe 9438 {
  meta:
      description = "9438 - file Faicuy4.exe"
      author = "TheDFIRReport"
      reference = "https://thedfirreport.com/2022/04/04/stolen-images-campai
      date = "2022-04-04"
      hash1 = "a79f5ce304707a268b335f63d15e2d7d740b4d09b6e7d095d7d08235360e7
   strings:
      $x1 = "C:\\Users\\Administrator\\Documents\\Visual Studio 2008\\Projec
      $s2 = "mutexes Version 1.0" fullword wide
                     <requestedExecutionLevel level=\"asInvoker\" uiAccess=\</pre>
      $s4 = ".?AVCMutexesApp@@" fullword ascii
      $s5 = ".?AVCMutexesDlq@@" fullword ascii
      $s6 = "About mutexes" fullword wide
      $s7 = "Mutexes Sample" fullword wide
      $s8 = " 1992 - 2001 Microsoft Corporation. All rights reserved." full
```

```
$s9 = "&Process priority class:" fullword wide
      $s10 = " Type Descriptor'" fullword ascii
      $s11 = "&About mutexes..." fullword wide
      $s12 = " constructor or from DllMain." fullword ascii
      $s13 = ".?AVCDisplayThread@@" fullword ascii
      $s14 = "IsQ:\"P" fullword ascii
      $s15 = "CExampleThread" fullword ascii
      $s16 = ".?AVCCounterThread@@" fullword ascii
      $s17 = ".?AVCExampleThread@@" fullword ascii
      $s18 = " <trustInfo xmlns=\"urn:schemas-microsoft-com:asm.v3\">" full
      $s19 = "CDisplayThread" fullword ascii
      $s20 = "CCounterThread" fullword ascii
   condition:
      uint16(0) == 0x5a4d and filesize < 2000KB and
      1 of ($x*) and 4 of them
}
rule conti dll 9438 {
  meta:
      description = "9438 - file x64.dll"
      author = "TheDFIRReport"
      reference = "https://thedfirreport.com/2022/04/04/stolen-images-campai
      date = "2022-04-04"
     hash1 = \$8fb035b73bf207243c9b29d96e435ce11eb9810a0f4fdcc6bb25a14a0ec8c
   strings:
      $s1 = "AppPolicyGetProcessTerminationMethod" fullword ascii
      $s2 = "conti v3.dll" fullword ascii
                     <requestedExecutionLevel level='asInvoker' uiAccess='fa</pre>
      $s4 = "api-ms-win-core-processthreads-11-1-2" fullword wide
      $s5 = "ext-ms-win-ntuser-dialogbox-11-1-0" fullword wide
      $s6 = " Type Descriptor'" fullword ascii
      $s7 = "operator \"\" " fullword ascii
      $s8 = "operator co await" fullword ascii
      $s9 = " <trustInfo xmlns=\"urn:schemas-microsoft-com:asm.v3\">" fullw
      $s10 = "api-ms-win-rtcore-ntuser-window-l1-1-0" fullword wide
```

```
$s11 = "api-ms-win-security-systemfunctions-11-1-0" fullword wide
$s12 = "ext-ms-win-ntuser-windowstation-11-1-0" fullword wide
$s13 = "api-ms-win-appmodel-runtime-11-1-2" fullword wide
$s14 = "Base Class Descriptor at ("fullword ascii
$s15 = "Class Hierarchy Descriptor'" fullword ascii
$s16 = "bad array new length" fullword ascii
$s17 = "Complete Object Locator'" fullword ascii
$s18 = ".data$r" fullword ascii
$s19 = "delete[]" fullword ascii
$s20 = " </trustInfo>" fullword ascii

condition:
uint16(0) == 0x5a4d and filesize < 700KB and
all of them
```

#### **MITRE**

```
T1614.001 - System Location Discovery: System Language Discovery
T1218.010 - Signed Binary Proxy Execution: Regsvr32
T1218.011 - Signed Binary Proxy Execution: Rundll32
T1059.001 - Command and Scripting Interpreter: PowerShell
T1055 - Process Injection
T1003.001 - OS Credential Dumping: LSASS Memory
T1486 - Data Encrypted for Impact
T1482 - Domain Trust Discovery
T1021.002 - Remote Services: SMB/Windows Admin Shares
T1219 - Remote Access Software
T1083 - File and Directory Discovery
T1562.001 - Impair Defenses: Disable or Modify Tools
T1518.001 - Software Discovery: Security Software Discovery
T1047 - Windows Management Instrumentation
T1087.002 - Account Discovery: Domain Account
T1068 - Exploitation for Privilege Escalation
T1082 - System Information Discovery
T1018 - Remote System Discovery
T1053.005 - Scheduled Task/Job: Scheduled Task
T1569.002 - Service Execution
```

T1071.001 Web Protocols	
S0552 - AdFind S0154 - Cobalt Strike	
S0097 - Ping	
Internal case #9438	
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Mentoring and Coaching

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