

Analysis Report: urlhaus_346cf14b7877.exe

Verdict: **LIKELY-MALICIOUS**

Verdict: likely-malicious; 319 anti-VM checks (mixed)

Analysis Overview

Score: 7/10

Threat level: Likely malicious

Malicious Activity Summary

- T1497.001
- T1071.001
- T1105
- Process Injection
- Process Injection: Dynamic-link Library Injection
- Input Capture: Keylogging
- Process Discovery
- Indicator Removal: File Deletion
- System Information Discovery
- Shared Modules
- Access Token Manipulation
- Hijack Execution Flow: DLL Side-Loading
- Debugger Evasion
- Boot or Logon Autostart Execution: Registry Run Keys

Hashes

SHA-256:	346cf14b787747160f789525e9843663b05a7e588f8fa92b8a2b858a8d54272b
SHA-1:	647653bcb618be9cf1883c969cfa3b4b3e3cea13
MD5:	edc8338feddc93e69c966d26a8e94e
Size:	636,224 bytes

Packer Detection

No packer detected.

PE Information

Architecture:	64-bit
Type:	Executable
Entry Point:	0x76C0
Sections:	7

Name	Virtual Size	Entropy
.text	0x1A1B1	6.55
.rdata	0xCF46	5.1
.data	0x1AEA8	1.94
.pdata	0x14A0	5.12
.fptable	0x100	0.0
.rsrc	0x6E9D0	8.0
.reloc	0x664	4.89

Imports

KERNEL32.dll

- TerminateProcess
- CreateThread
- GetCurrentThreadId
- OpenThread
- FlushInstructionCache
- GetTickCount
- VirtualAlloc
- VirtualProtect
- VirtualFree
- GetModuleHandleA

USER32.dll

- DispatchMessageW
- GetSystemMetrics
- GetCursorPos
- wsprintfA
- MsgWaitForMultipleObjectsEx
- PeekMessageW
- TranslateMessage
- MessageBoxW
- wsprintfW
- GetAsyncKeyState

ADVAPI32.dll

- RegCloseKey
- GetTokenInformation
- OpenProcessToken
- RegQueryInfoKeyW
- RegOpenKeyExW
- GetUserNameW

COMCTL32.dll

- InitCommonControlsEx

SHLWAPI.dll

- PathFileExistsW
- StrCmpIW

UxTheme.dll

- IsAppThemed
- IsThemeActive

USERENV.dll

- GetUserProfileDirectoryW

ole32.dll

CoInitializeEx
CoUninitialize

VERSION.dll

GetFileVersionInfoSizeW

Strings (200 found)

VIn\$
_RE{
j',T
<[dRich
.text
`.rdata
@.data
.pdata
@.fptable
.rsrc
@.reloc
L\$ L
SVWATAUAVAWH
D\$8ole3
D\$<2.dlf
D\$@1
D\$HH
\\$ M
\\$LE2
D\$`H
D\$tH
D\$23
d\$3L
L\$LD
|\$03
d\$3H
|\$1E3
D\$`H
D\$tH
|\$03
tyD
|\$03
|\$1H
A_A^A]A_^[
\\$0H
t\$8H
|17ss|ls
I*Ai
sssss
|\$ f
|\$ fA
D\$8H
D\$(H
\\$ A
"r?L
\\$`H
t\$hH

|\$pH
 |ls@SH
 sssss|ls
 ... and 150 more

Malware Config

Indicators of Compromise (50)

URLs (10)

https://telegram.me/m1duus
 https://dev.epicgames.com/community/api/user_profiles/profile.json
 https://steamcommunity.com/profiles/76561198657426610
 http://crl.comodo.net/AAACertificateServices.crl0
 http://www.microsoft.com0
 http://www.quovadis.bm0
 https://aware-cr1.com/
 https://aware-cr1.com/api/beacon
 https://aware-cr1.com:443/api/beacon
 https://ocsp.quovadisoffshore.com0

IPv4 addresses (17)

1.3.132.0
 1.3.36.3
 1.9.16.1
 1.9.16.2
 2.23.43.1
 2.5.29.1
 2.5.29.10
 2.5.29.14
 2.5.29.15
 2.5.29.17
 2.5.29.19
 2.5.29.3
 2.5.29.31
 2.5.29.32
 2.5.29.35
 2.5.29.37
 41.3.6.1

Domains (23)

telegram.me
 dev.epicgames.com
 steamcommunity.com
 aware-cr1.com
 assets.msn.com
 www.bing.com
 config.edge.skype.com
 edge-consumer-static.azureedge.net
 crl.comodo.net
 www.microsoft.com0
 www.quovadis.bm0
 ocsp.quovadisoffshore.com0
 access.nextlsoft.com

are-cr1.com
dowsupdate.com
e-cr1.com
ess.nextlsoft.com
ipv6-literal.net
izenpe.com
ndowsupdate.com
ssl.com
stugwarepanelv2.com
www.stugwarepanelv2.com

MITRE ATT&CK (14)

Technique	Name	Tactic	Source
T1497.001			detonation-evidence
T1071.001			detonation-evidence
T1105			detonation-evidence
T1055	Process Injection	Defense Evasion	
T1055.001	Process Injection: Dynamic-link	Defense Evasion	
T1056.001	Input Capture: Keylogging	Credential Access	
T1057	Process Discovery	Discovery	
T1070.004	Indicator Removal: File Deletion	Defense Evasion	
T1082	System Information Discovery	Discovery	
T1129	Shared Modules	Execution	
T1134	Access Token Manipulation	Privilege Escalation	
T1574.002	Hijack Execution Flow: DLL Side-	Privilege Escalation	
T1622	Debugger Evasion	Defense Evasion	
T1547.001	Boot or Logon Autostart Executio	Persistence	behavioral_inference

Per-Process ATT&CK Attribution (1)

Which process attributed which technique, from the Intel-PT per-CR3 demux (each syscall resolved under its own process address space).

				Proces
NVDisplay.Cont	1156	424	T1055	

Dynamic Detonation

Coverage: ran
Behavior: malicious-behavior
Threat score: 70/100 (high)
Factors: c2, attack_techniques

Network Connections (9)

Destination	Domain	Proto
10.0.2.3:80		tcp
10.0.2.3:443		tcp
10.0.2.3:53		udp
224.0.0.252:5355		udp
224.0.0.251:5353		udp

255.255.255.255:67		udp
10.0.2.255:137		udp
169.254.255.255:137		udp
10.0.2.255:138		udp

Memory-Recovered IOCs (runtime deobfuscation) (40)

Decoded from guest memory at the hypervisor - recovered from obfuscation static analysis cannot unpack.

```
[url] http://crl.comodo.net/AAACertificateServices.cr10
[url] http://www.microsoft.com0
[url] http://www.quovadis.bm0
[url] https://aware-cr1.com/
[url] https://aware-cr1.com/api/beacon
[url] https://aware-cr1.com:443/api/beacon
[url] https://ocsp.quovadisoffshore.com0
[domain] access.nextlsoft.com
[domain] are-cr1.com
[domain] aware-cr1.com
[domain] crl.comodo.net
[domain] dowsupdate.com
[domain] e-cr1.com
[domain] ess.nextlsoft.com
[domain] ipv6-literal.net
[domain] izenpe.com
[domain] ndowsupdate.com
[domain] ocsp.quovadisoffshore.com0
[domain] ssl.com
[domain] stugwarepanelv2.com
[domain] www.microsoft.com0
[domain] www.quovadis.bm0
[domain] www.stugwarepanelv2.com
[ip] 1.3.132.0
[ip] 1.3.36.3
```

...and 15 more

TLS Handshake Failures (cert-pinning) (50)

```
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
www.bing.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
www.bing.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
```

assets.msn.com (tlsstate: deadline exceeded)

Behavioral Timeline (100)

1. [conn] pid 0: udp 224.0.0.251:5353
2. [conn] pid 0: udp 224.0.0.252:5355
3. [conn] pid 0: udp 169.254.255.255:137
4. [conn] pid 0: udp 255.255.255.255:67
5. [conn] pid 0: udp 224.0.0.251:5353
6. [conn] pid 0: udp 224.0.0.252:5355
7. [conn] pid 0: udp 10.0.2.255:137
8. [conn] pid 0: udp 10.0.2.3:53
9. [dns] pid 0: DNS 1 www.msftconnecttest.com -> 10.0.2.3
10. [conn] pid 0: tcp 10.0.2.3:80
11. [conn] pid 0: udp 224.0.0.252:5355
12. [conn] pid 0: tcp 10.0.2.3:80
13. [conn] pid 0: udp 10.0.2.3:53
14. [dns] pid 0: DNS 1 aware-cr1.com -> 10.0.2.3
15. [conn] pid 0: tcp 10.0.2.3:443
16. [conn] pid 0: udp 10.0.2.3:53
17. [dns] pid 0: DNS 1 ctldl.windowsupdate.com -> 10.0.2.3
18. [conn] pid 0: tcp 10.0.2.3:80
19. [conn] pid 0: tcp 10.0.2.3:80
20. [conn] pid 0: tcp 10.0.2.3:80
21. [conn] pid 0: udp 10.0.2.3:53
22. [dns] pid 0: DNS 1 assets.msn.com -> 10.0.2.3
23. [conn] pid 0: tcp 10.0.2.3:443
24. [conn] pid 0: tcp 10.0.2.3:443
25. [conn] pid 0: tcp 10.0.2.3:80

...and 75 more events

Packet capture: available (full PCAP)

Persistence (1)

[Startup folder] malray.bat -> /ProgramData/Microsoft/Windows/Start Menu/Programs/Startup/malray.bat

Spawned Processes (50)

System

Registry

smss.exe - \SystemRoot\System32\smss.exe

msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=utility --utility-sub-type=edge_s

RuntimeBroker. - C:\Windows\System32\RuntimeBroker.exe -Embedding

dllhost.exe - C:\Windows\system32\DllHost.exe /Processid:{133EAC4F-5891-4D04-BADA-D84870380A80}

SearchApp.exe - "C:\Windows\SystemApps\Microsoft.Windows.Search_cw5n1h2txyewy\SearchApp.exe" -ServerName:CortanaUI.A

svchost.exe - C:\Windows\system32\svchost.exe -k appmodel -p -s camsvc

msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=crashpad-handler "--user-data-dir

urlhaus_346cf1 - svchost.exe

svchost.exe - C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted -p -s PcaSvc

msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --single-argument http://www.msftconnect

msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=utility --utility-sub-type=networ

msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=renderer --pdf-upsell-enabled --v

msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=renderer --pdf-upsell-enabled --v

msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=utility --utility-sub-type=storag

msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=gpu-process --gpu-preferences=SA

svchost.exe - C:\Windows\System32\svchost.exe -k netsvcs -p -s BDESVC

svchost.exe - C:\Windows\system32\svchost.exe -k netsvcs -p -s Appinfo

svchost.exe - C:\Windows\system32\svchost.exe -k RPCSS -p

svchost.exe - C:\Windows\system32\svchost.exe -k DcomLaunch -p -s DeviceInstall

```
svchost.exe - C:\Windows\System32\svchost.exe -k wsappx -p -s ClipSVC
svchost.exe - C:\Windows\system32\svchost.exe -k LocalSystemNetworkRestricted -s WPDBusEnum
fontdrvhost.exe - "fontdrvhost.exe"
svchost.exe - C:\Windows\system32\svchost.exe -k netsvcs -p -s ProfSvc
svchost.exe - C:\Windows\system32\svchost.exe -k LocalService -p -s EventSystem
svchost.exe - C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted -p -s TimeBrokerSvc
svchost.exe - C:\Windows\System32\svchost.exe -k NetSvcs -p -s iphlpsvc
LogonUI.exe - "LogonUI.exe" /flags:0x2 /state0:0xa3b2c855 /state1:0x41c64e6d
svchost.exe - C:\Windows\system32\svchost.exe -k netsvcs -p -s gpsvc
```

...and 20 more

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