

Analysis Report: urlhaus_e2b6dbb5b5c4.exe

Verdict: SUSPICIOUS

Verdict: suspicious; 745 anti-VM checks (mixed)

Analysis Overview

Score: 7/10

Threat level: Suspicious

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
- Scheduled Task/Job: Scheduled Task
- Boot or Logon Autostart Execution: Registry Run Keys

Hashes

SHA-256:	e2b6dbb5b5c44863df8e9e79a6c0d0c4d8fe7bfca346335fbfcd4dc6ca5f9010
SHA-1:	ef72cfef1a1e57d55376ffe629fa7275238c1951
MD5:	a518660aec0ba76afbe4ac9d9443132f
Size:	434,688 bytes

Packer Detection

No packer detected.

PE Information

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

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	0x3FFDC	7.45
.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)

sb 4t
wRich
.text
@.data
.pdata
@.fptable
.rsrc
@.reloc
L\$ L
SVWATAUAVAWH
D\$80le3
D\$<2.dlf
D\$@l
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
|1sDi
I*Ai
ssss
|\$ f
|\$ fA
|13s
D\$8H
D\$(H
\\$ A
"r?L

\\$`H
t\$hH
|\$pH
ssss|l3s
r4E3
... and 150 more

Malware Config

Indicators of Compromise (46)

URLs (9)

http://crl.comodo.net/AAACertificateServices.crl0
http://vexdico.s
http://vexdico.shop:8539/
http://vexdico.shop:8539/files
http://vexdico.shop:8539/files-89
http://www.microsoft.com0
http://www.quovadis.bm0
https://aware-cr1.com/api/beacon
https://ocsp.quovadisoffshore.com0

IPv4 addresses (16)

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
2.5.29.31
2.5.29.32
2.5.29.35
2.5.29.37
41.3.6.1

Domains (21)

aware-cr1.com
vexdico.shop
assets.msn.com
www.bing.com
config.edge.skype.com
edge-consumer-static.azureedge.net
crl.comodo.net
vexdico.s
www.microsoft.com0
www.quovadis.bm0
ocsp.quovadisoffshore.com0
access.nextlsoft.com
e-cr1.com

ipv6-literal.net
izenpe.com
l.aware-cr1.com
ndowsupdate.com
o.shop
ssl.com
stugwarepanelv2.com
www.stugwarepanelv2.com

MITRE ATT&CK (15)

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	
T1053.005	Scheduled Task/Job: Scheduled Ta	Persistence	behavioral_inference
T1547.001	Boot or Logon Autostart Executio	Persistence	behavioral_inference

Dynamic Detonation

Coverage: ran
Behavior: suspicious
Threat score: 69/100 (medium)
Factors: c2, evasion, attack_techniques

Network Connections (9)

Destination	Domain	Proto
224.0.0.251:5353		udp
10.0.2.3:80		tcp
10.0.2.3:443		tcp
10.0.2.3:53		udp
224.0.0.252:5355		udp
10.0.2.255:138		udp
10.0.2.255:137		udp
255.255.255.255:67		udp
10.0.2.3:8539		tcp

Memory-Recovered IOCs (runtime deobfuscation) (42)

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

[url] http://crl.comodo.net/AAACertificateServices.crl0
[url] http://vexdico.s
[url] http://vexdico.shop:8539/
[url] http://vexdico.shop:8539/files
[url] http://vexdico.shop:8539/files-89
[url] http://www.microsoft.com0
[url] http://www.quovadis.bm0
[url] https://aware-cr1.com/api/beacon
[url] https://ocsp.quovadisoffshore.com0
[domain] access.nextlsoft.com
[domain] aware-cr1.com
[domain] crl.comodo.net
[domain] e-cr1.com
[domain] ipv6-literal.net
[domain] izenpe.com
[domain] l.aware-cr1.com
[domain] ndowsupdate.com
[domain] o.shop
[domain] ocsp.quovadisoffshore.com0
[domain] ssl.com
[domain] stugwarepanelv2.com
[domain] vexdico.s
[domain] vexdico.shop
[domain] www.microsoft.com0
[domain] www.quovadis.bm0

...and 17 more

TLS Handshake Failures (cert-pinning) (50)

assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
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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 255.255.255.255:67
4. [conn] pid 0: udp 224.0.0.251:5353
5. [conn] pid 0: udp 224.0.0.252:5355

```
6. [conn] pid 0: udp 10.0.2.255:137
7. [conn] pid 0: udp 10.0.2.3:53
8. [dns] pid 0: DNS 1 www.msftconnecttest.com -> 10.0.2.3
9. [conn] pid 0: tcp 10.0.2.3:80
10. [conn] pid 0: udp 224.0.0.252:5355
11. [conn] pid 0: tcp 10.0.2.3:80
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: udp 10.0.2.3:53
21. [dns] pid 0: DNS 1 vexdico.shop -> 10.0.2.3
22. [conn] pid 0: tcp 10.0.2.3:8539
23. [conn] pid 0: udp 10.0.2.3:53
24. [dns] pid 0: DNS 1 assets.msn.com -> 10.0.2.3
25. [conn] pid 0: tcp 10.0.2.3:443
```

...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

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

```
svchost.exe - C:\Windows\System32\svchost.exe -k LocalServiceNetworkRestricted -p -s lmhosts
```

```
svchost.exe - C:\Windows\System32\svchost.exe -k wsappx -p -s ClipSVC
```

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

```
schtasks.exe - schtasks.exe /create /tn "WindowsSecurityHealth" /xml "C:\Users\MATT~1\JOH\AppData\Local\Temp\~st0000"
```

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

```
conhost.exe - ???C:\Windows\system32\conhost.exe 0x4
```

```
StartMenuExper - "C:\Windows\SystemApps\Microsoft.Windows.StartMenuExperienceHost_cw5n1h2txyewy\StartMenuExperienceH
```

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

```
schtasks.exe - schtasks.exe /create /tn "WindowsSecurityHealth" /xml "C:\Users\MATT~1\JOH\AppData\Local\Temp\~st0000"
```

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

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

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

```
urlhaus_e2b6db - svchost.exe
```

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

```
mobsync.exe - C:\Windows\System32\mobsync.exe -Embedding
```

```
msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=crashpad-handler "--user-data-dir=C:\Users\MATT~1\JOH\AppData\Local\Temp\~st0000"
```

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

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

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

```
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
```

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

```
schtasks.exe - schtasks.exe /create /tn "SecurityHealthService" /xml "C:\Users\MATT~1\JOH\AppData\Local\Temp\~st0000"
```

```
cmd.exe - C:\Windows\system32\cmd.exe /c "C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Startup\fire_loader.bat"
```

```
taskhostw.exe - taskhostw.exe SyncFromCloud
```

```
schtasks.exe - schtasks.exe /create /tn "SecurityHealthService" /xml "C:\Users\MATT~1.JOH\AppData\Local\Temp\~st0000
schtasks.exe - schtasks.exe /create /tn "SecurityHealthService" /xml "C:\Users\MATT~1.JOH\AppData\Local\Temp\~st0000
...and 20 more
```

Report ID: N95st87Uva1awefa-yrRkrMu2KRNINZacBEKxYGwt4

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