

Analysis Report: urlhaus_dff83bede85f.exe

Verdict: **MALICIOUS**

Verdict: likely-malicious; 158557 anti-VM checks (rdtsc)

Analysis Overview

Score: 7/10

Threat level: Malicious

Malicious Activity Summary

- T1497.001
- T1071.001
- T1105
- Process Injection: Dynamic-link Library Injection
- Shared Modules
- Hijack Execution Flow: DLL Side-Loading
- Debugger Evasion
- Boot or Logon Autostart Execution: Registry Run Keys

Hashes

SHA-256: dff83bede85f33f1229e21cabcb1b159f8b11230c9b4b6d2e46432d7094c7a917

SHA-1: cb60dc8be2fe05517280d77bbe3415979f339840

MD5: 68151cd3c5175750d58735083f381838

Size: 795,136 bytes

Packer Detection

No packer detected.

PE Information

Architecture: 64-bit

Type: Executable

Entry Point: 0x48630

Sections: 6

Name	Virtual Size	Entropy
.text	0x74F2C	6.47
.rdata	0x1B582	5.26
.data	0x3DC14	5.28
.pdata	0x4038	5.72

.fptable	0x100	0.0
.reloc	0xDB4	5.4

Imports

- KERNEL32.dll**
- LoadLibraryA
 - GetProcAddress
 - GetCurrentProcess
 - SetEndOfFile
 - QueryPerformanceCounter
 - QueryPerformanceFrequency
 - GetSystemTimePreciseAsFileTime
 - ReleaseSRWLockExclusive
 - AcquireSRWLockExclusive
 - SleepConditionVariableSRW

Strings (200 found)

!This program cannot be run in DOS mode.
Rich
.text
.rdata
.data
.pdata
.fptable
.reloc
\\$0H
|\$ H
|\$ H
\\$0H
\\$0H
@USVWAUAVAWH
w-I;
`A_A^A]_^[]
@USVWATAUAVAWH
w L;
hA_A^A]A_^[]
t<H
\\$8H
D\$8H
D\$(H
@SUVWAVH
A^_^[]
\\$0H
\\$0H
@SUVWAVH
A^_^[]
@SUVWAVAWH
(A_A^_^[]
A'H;
SWATAUAVAW
D\$pH

D\$XH
T\$XH
L\$XH
\\\$XH
D\$`H
T\$hH
D\$ L
L\$hL
t\$pD
D\$`H
T\$hH
D\$ L
L\$hL
T\$HD
|\$@D
L\$0H
... and 150 more

Malware Config

C2 / Network (1)

Endpoint	Source
31.77.228.62:80	network

Indicators of Compromise (9)

URLs (1)

http://31.77.228.62/

IPv4 addresses (2)

111.111.111.111
31.77.228.62

Domains (6)

zaa.co
31.77.228.62
assets.msn.com
www.bing.com
config.edge.skype.com
edge-consumer-static.azureedge.net

MITRE ATT&CK (8)

Technique	Name	Tactic	Source
T1497.001			detonation-evidence
T1071.001			detonation-evidence
T1105			detonation-evidence
T1055.001	Process Injection: Dynamic-link	Defense Evasion	
T1129	Shared Modules	Execution	
T1574.002	Hijack Execution Flow: DLL Side-	Privilege Escalation	
T1622	Debugger Evasion	Defense Evasion	
T1547.001	Boot or Logon Autostart Executio	Persistence	behavioral_inference

Dynamic Detonation

Coverage: ran

Behavior: malicious-behavior

Threat score: 70/100 (high)

Factors: c2, attack_techniques

Network Connections (9)

Destination	Domain	Proto
10.0.2.3:443		tcp
10.0.2.3:80		tcp
10.0.2.3:53		udp
10.0.2.255:138		udp
224.0.0.252:5355		udp
224.0.0.251:5353		udp
31.77.228.62:80		tcp
255.255.255.255:67		udp
10.0.2.255:137		udp

TLS Handshake Failures (cert-pinning) (50)

assets.msn.com (tlsstate: deadline exceeded)

www.bing.com (tlsstate: deadline exceeded)

assets.msn.com (tlsstate: deadline exceeded)

assets.msn.com (tlsstate: deadline exceeded)

edge.microsoft.com (remote error: tls: unknown certificate)

edge.microsoft.com (remote error: tls: unknown certificate)

assets.msn.com (tlsstate: deadline exceeded)

assets.msn.com (tlsstate: deadline exceeded)

www.bing.com (tlsstate: deadline exceeded)

www.bing.com (tlsstate: deadline exceeded)

www.bing.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)

- [conn] pid 0: udp 224.0.0.251:5353
- [conn] pid 0: udp 224.0.0.252:5355
- [conn] pid 0: udp 255.255.255.255:67
- [conn] pid 0: udp 224.0.0.251:5353
- [conn] pid 0: udp 224.0.0.252:5355
- [conn] pid 0: udp 10.0.2.255:137
- [conn] pid 0: udp 10.0.2.3:53
- [dns] pid 0: DNS 1 www.msftconnecttest.com -> 10.0.2.3
- [conn] pid 0: tcp 10.0.2.3:80
- [conn] pid 0: udp 224.0.0.252:5355
- [conn] pid 0: tcp 10.0.2.3:80

```
12. [conn] pid 0: tcp 31.77.228.62:80
13. [conn] pid 0: tcp 10.0.2.3:80
14. [conn] pid 0: udp 10.0.2.3:53
15. [dns] pid 0: DNS 1 assets.msn.com -> 10.0.2.3
16. [conn] pid 0: tcp 10.0.2.3:443
17. [conn] pid 0: tcp 10.0.2.3:443
18. [conn] pid 0: udp 10.0.2.3:53
19. [dns] pid 0: DNS 1 ctldl.windowsupdate.com -> 10.0.2.3
20. [conn] pid 0: tcp 10.0.2.3:80
21. [conn] pid 0: tcp 10.0.2.3:80
22. [conn] pid 0: tcp 10.0.2.3:80
23. [conn] pid 0: tcp 10.0.2.3:80
24. [conn] pid 0: tcp 10.0.2.3:80
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
svchost.exe - C:\Windows\System32\svchost.exe -k netsvcs -p -s BDESVC
RuntimeBroker. - C:\Windows\System32\RuntimeBroker.exe -Embedding
svchost.exe - C:\Windows\system32\svchost.exe -k appmodel -p -s camsvc
lsass.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
csrss.exe
msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=crashpad-handler "--user-data-dir
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=utility --utility-sub-type=network
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
mobsync.exe - C:\Windows\System32\mobsync.exe -Embedding
svchost.exe - C:\Windows\system32\svchost.exe -k netsvcs -p -s Appinfo
msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=utility --utility-sub-type=entity
msedge.exe - "C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" --type=utility --utility-sub-type=edge_s
conhost.exe - ???C:\Windows\system32\conhost.exe 0x4
cmd.exe - C:\Windows\system32\cmd.exe /c ""C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Startup\fire_loader
taskhostw.exe - taskhostw.exe SyncFromCloud
wlrmldr.exe
SppExtComObj.E
svchost.exe - C:\Windows\system32\svchost.exe -k netsvcs -p -s ProfSvc
svchost.exe - C:\Windows\system32\svchost.exe -k netsvcs -p -s wlidsvc
svchost.exe - C:\Windows\system32\svchost.exe -k netsvcs -p -s gpsvc
svchost.exe - C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted -p -s TimeBrokerSvc
fontdrvhost.ex - "fontdrvhost.exe"
```

...and 20 more

