

Analysis Report: urlhaus_5bdc1538bbb1.exe

Verdict: MALICIOUS

Verdict: suspicious; 118 anti-VM checks (mixed)

Analysis Overview

Score: 7/10

Threat level: Malicious

Malicious Activity Summary

- T1497.001
- T1071.001
- T1105
- Obfuscated Files or Information
- Process Injection
- Process Injection: Dynamic-link Library Injection
- Input Capture: Keylogging
- Process Discovery
- Indicator Removal: File Deletion
- Native API
- Modify Registry
- Screen Capture
- Clipboard Data
- Shared Modules
- Access Token Manipulation
- Data Encrypted for Impact
- Credentials from Password Stores: Credentials from Web Browsers
- Hijack Execution Flow: DLL Side-Loading
- Debugger Evasion
- Boot or Logon Autostart Execution: Registry Run Keys

Hashes

SHA-256:	5bdc1538bbb1e54da444b8f36194936d243c893607886a8a782444700861ecc6
SHA-1:	58e604ba5b365e7b8a505c9d3f3ade2313fa2e94
MD5:	8513107682d18a19b41b2280384f988f
Size:	525,312 bytes

Packer Detection

No packer detected.

PE Information

Architecture: 32-bit
Type: Executable
Entry Point: 0x3C9B9
Sections: 5

Name	Virtual Size	Entropy
.text	0x5DDDF	6.64
.rdata	0x185DC	5.77
.data	0xAD7C	3.07
.rsrc	0x4B10	3.99
.reloc	0x4158	6.71

Imports

KERNEL32.dll

DeleteFileA
GetLogicalDriveStringsA
SetFilePointerEx
MoveFileW
RemoveDirectoryW
GetModuleHandleA
TerminateThread
GetFileSize
ExpandEnvironmentStringsW
GetEnvironmentVariableW

USER32.dll

wsprintfW
GetClipboardData
UnhookWindowsHookEx
GetForegroundWindow
ToUnicodeEx
GetKeyboardLayout
SetWindowsHookExA
CloseClipboard
OpenClipboard
GetKeyboardState

GDI32.dll

BitBlt
CreateCompatibleBitmap
SelectObject
CreateCompatibleDC
StretchBlt
GetDIBits
DeleteDC
DeleteObject
CreateDCA
GetObjectA

ADVAPI32.dll

CryptAcquireContextA
CryptGenRandom
CryptReleaseContext
GetUserNameW

RegEnumKeyExA
GetTokenInformation
AdjustTokenPrivileges
LookupPrivilegeValueA
OpenProcessToken
RegQueryInfoKeyW

SHELL32.dll

Shell_NotifyIconA
ShellExecuteExA
ShellExecuteW
ExtractIconA

ole32.dll

CoUninitialize
CoGetObject
CoInitializeEx

WINMM.dll

PlaySoundW
waveInUnprepareHeader
waveInPrepareHeader
waveInStop
waveInClose
waveInStart
waveInAddBuffer
mciSendStringA
waveInOpen
mciSendStringW

WS2_32.dll

WSAGetLastError
WSAStartup
closesocket
send
inet_ntoa
getaddrinfo
socket
recv
connect

urlmon.dll

URLOpenBlockingStreamW
URLDownloadToFileW

gdiplus.dll

GdiplLoadImageFromStream
GdiplSaveImageToStream
GdiplGetImageEncodersSize
GdiplFree
GdiplDisposeImage
GdiplAlloc
GdiplGetImageEncoders
GdiplusStartup
GdiplCloneImage

WININET.dll

InternetCloseHandle
InternetReadFile
InternetOpenUrlW

Strings (200 found)

!This program cannot be run in DOS mode.

RichH

.text

`.rdata

@.data

.rsrc

@.reloc

h|2G

SUVWj

_^[

j Pf

D\$,VPVj

L\$(P

D\$ PW

D\$\$PW

D\$(PW

PUh\$

D\$,PW

D\$0PW

D\$4PW

_^[

QSVW

SUVW

_^[

YY_^

YY_^

3BRV

_^[

_^[

_^[

_^[

QQSUW

_][YY

QQUW

D\$ U

_][YY

D\$ PS

D\$ PS

w49V

_^[

w49V

_^[

3BRV

QQSUV

t\$\$+

\\$,Q

_^[YY

\$_^]

w?VW

D\$\$P

... and 150 more

Malware Config

Indicators of Compromise (6)

Domains (6)

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

MITRE ATT&CK (20)

Technique	Name	Tactic	Source
T1497.001			detonation-evidence
T1071.001			detonation-evidence
T1105			detonation-evidence
T1027	Obfuscated Files or Information	Defense Evasion	
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	
T1106	Native API	Execution	
T1112	Modify Registry	Defense Evasion	
T1113	Screen Capture	Collection	
T1115	Clipboard Data	Collection	
T1129	Shared Modules	Execution	
T1134	Access Token Manipulation	Privilege Escalation	
T1486	Data Encrypted for Impact	Impact	
T1555.003	Credentials from Password Stores	Credential Access	
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:** suspicious
- Threat score:** 69/100 (medium)
- Factors:** c2, evasion, 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
10.0.2.255:137		udp
224.0.0.251:5353		udp
255.255.255.255:67		udp
224.0.0.252:5355		udp
10.0.2.255:138		udp
10.0.2.3:2404		tcp

TLS Handshake Failures (cert-pinning) (50)

```

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)
assets.msn.com (tlsstate: deadline exceeded)
www.bing.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
assets.msn.com (tlsstate: deadline exceeded)
functional.events.data.microsoft.com (remote error: tls: unknown certificate)
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 255.255.255.255:67
2. [conn] pid 0: udp 224.0.0.251:5353
3. [conn] pid 0: udp 224.0.0.252:5355
4. [conn] pid 0: udp 224.0.0.252:5355
5. [conn] pid 0: udp 10.0.2.255:137
6. [conn] pid 0: udp 10.0.2.3:53
7. [dns] pid 0: DNS 1 www.msftconnecttest.com -> 10.0.2.3
8. [conn] pid 0: tcp 10.0.2.3:80
9. [conn] pid 0: tcp 10.0.2.3:80
10. [conn] pid 0: udp 10.0.2.3:53
11. [dns] pid 0: DNS 1 newpapidsorg.duckdns.org -> 10.0.2.3
12. [conn] pid 0: tcp 10.0.2.3:2404
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 (11)

System
Registry
smss.exe - \SystemRoot\System32\smss.exe
SecurityHealth
mobsync.exe
csrss.exe - %SystemRoot%\system32\csrss.exe ObjectDirectory=\Windows SharedSection=1024,20480,768 Windows=0n SubSystem=Windows
wininit.exe - wininit.exe
smss.exe
winlogon.exe - winlogon.exe
svchost.exe
taskhostw.exe

Report ID: 0zzhZWGLtCGzaF-bJBF2lt0MDRNLj1j4SnN_KnJrCc

Generated by KVMX - kvmx.ai