

## Analysis Report: urlhaus\_ab5229913dad.exe

**Verdict: SUSPICIOUS**

Verdict: suspicious; 76 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

|                 |                                                                  |
|-----------------|------------------------------------------------------------------|
| <b>SHA-256:</b> | ab5229913dad931d670af38f1038c84f0ce60a7c18407aad655f04863339b9a4 |
| <b>SHA-1:</b>   | d52888a0f9bfa8f02fd81393c20db89dd5f89c6d                         |
| <b>MD5:</b>     | 56b130aa5a2bf088c4f5768b1e6e3cd7                                 |
| <b>Size:</b>    | 880,368 bytes                                                    |

### Packer Detection

No packer detected.

### PE Information

|                      |            |
|----------------------|------------|
| <b>Architecture:</b> | 64-bit     |
| <b>Type:</b>         | Executable |
| <b>Entry Point:</b>  | 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    | 0xA9C44      | 7.7     |
| .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)**

---

x>ER  
Rich  
.text  
\.rdata  
@.data  
.pdata  
@.fptable  
.rsrc  
@.reloc  
L\$ L  
SVWATAUAVAWH  
D\$8ole3  
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  
ssss  
I\*Ai  
sssss  
|\$ f  
|\$ fA  
|l3s  
D\$8H  
D\$(H  
\\$ A  
"r?L  
\\$`H

t\$hH  
|\$pH  
|ls@SH  
sssss|ls@SH  
r4E3  
... and 150 more

## Malware Config

### C2 / Network (6)

| Endpoint                        | Source       |
|---------------------------------|--------------|
| api.msn.com                     | decrypted_c2 |
| assets.msn.com                  | decrypted_c2 |
| config.edge.skype.com           | decrypted_c2 |
| fs.microsoft.com                | decrypted_c2 |
| settings-win.data.microsoft.com | decrypted_c2 |
| www.bing.com                    | decrypted_c2 |

## Indicators of Compromise (10)

### URLs (3)

https://aware-cr1.com/  
https://aware-cr1.com/api/beacon  
https://aware-cr1.com:443/api/beacon

### Domains (7)

api.msn.com  
assets.msn.com  
www.bing.com  
config.edge.skype.com  
aware-cr1.com  
ipv6-literal.net  
l.aware-cr1.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 (5)

| Destination         | Domain | Proto |
|---------------------|--------|-------|
| 169.254.255.255:137 |        | udp   |
| 169.254.255.255:138 |        | udp   |
| 224.0.0.251:5353    |        | udp   |
| 224.0.0.252:5355    |        | udp   |
| 255.255.255.255:67  |        | udp   |

### Memory-Recovered IOCs (runtime deobfuscation) (6)

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

[url] https://aware-cr1.com/  
[url] https://aware-cr1.com/api/beacon  
[url] https://aware-cr1.com:443/api/beacon  
[domain] aware-cr1.com  
[domain] ipv6-literal.net  
[domain] 1.aware-cr1.com

### Behavioral Timeline (38)

- [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 169.254.255.255:137
- [conn] pid 0: udp 169.254.255.255:138
- [file]: write /ProgramData/Microsoft/Windows/AppRepository/StateRepository-Deployment.srd-shm
- [file]: write /ProgramData/Microsoft/Windows/AppRepository/StateRepository-Deployment.srd-wal
- [file]: write /ProgramData/Microsoft/Windows/AppRepository/StateRepository-Machine.srd
- [file]: write /ProgramData/Microsoft/Windows/AppRepository/StateRepository-Machine.srd-shm
- [file]: write /ProgramData/Microsoft/Windows/AppRepository/StateRepository-Machine.srd-wal
- [file]: write /ProgramData/Microsoft/Windows/Start Menu/Programs/Startup/malray.bat
- [file]: write /ProgramData/Microsoft/Windows/wfp/wfpdiag.etl
- [file]: write /ProgramData/NVIDIA/DisplaySessionContainer1.log
- [file]: write /ProgramData/NVIDIA/DisplaySessionContainer1.log\_backup1
- [file]: write /ProgramData/NVIDIA/NVDisplay.ContainerLocalSystem.log
- [file]: write /ProgramData/NVIDIA/NVDisplay.ContainerLocalSystem.log\_backup1
- [file]: write /ProgramData/NVIDIA/NVDisplayContainerWatchdog.log
- [file]: write /ProgramData/NVIDIA/NVDisplayContainerWatchdog.log\_backup1
- [file]: write /ProgramData/NVIDIA/NvcDispCorePlugin.log
- [file]: write /ProgramData/NVIDIA/NvcDispCorePlugin.log\_backup1
- [file]: write /ProgramData/NVIDIA Corporation/Drs/nvdrsdb1.bin
- [file]: write /ProgramData/NVIDIA Corporation/Drs/nvdrssel.bin
- [file]: write /ProgramData/NVIDIA Corporation/GameSessionTelemetry/telemetryPlugin.log
- [file]: write /ProgramData/NVIDIA Corporation/GameSessionTelemetry/telemetryPlugin.log\_backup
- [file]: write /ProgramData/NVIDIA Corporation/NvProfileUpdaterPlugin/NvProfileUpdaterPlugin\_1.log

...and 13 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

winlogon.exe - winlogon.exe

wininit.exe - wininit.exe

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

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

svchost.exe - C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted -p -s NcbService

StartMenuExper - "C:\Windows\SystemApps\Microsoft.Windows.StartMenuExperienceHost\_cw5n1h2txyewy\StartMenuExperienceHost.exe"

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

urlhaus\_ab5229 - svchost.exe

msedge.exe

urlhaus\_ab5229 - "C:\Users\Public\Downloads\urlhaus\_ab5229913dad.exe"

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

NVDisplay.Cont - C:\Windows\System32\DriverStore\FileRepository\nvamig.inf\_amd64\_5a5c892944a7f61d\Display.NvContainer.exe

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

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

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

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

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

dwm.exe - "dwm.exe"

svchost.exe - C:\Windows\system32\svchost.exe -k LocalServiceNetworkRestricted -p -s TimeBrokerSvc

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

taskhostw.exe - taskhostw.exe ExploitGuardPolicy

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

svchost.exe - C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricted -p -s AudioEndpointBuilder

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

upfc.exe - C:\Windows\System32\Upfc.exe /launchtype boot /cv UJ+hSRo6t064PKP903e/7A.0

svchost.exe - C:\Windows\system32\svchost.exe -k LocalService -p -s DispBrokerDesktopSvc

...and 20 more

Report ID: 9Pcdcj4UzGjS\_guu4vTzGMldMohbq34y1VN3r-VTnlo

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